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Email: bhargavi.aqua04@gmail.com

H.T.No: 22063CDO117



# **EC2**:

### 1. Create an instance



2. Extra Volume of 1GB created

| Volumes   EL2 Management Con | ×                                      | and the second division of the second divisio | _             |          | -           |          | and the second | -         | No. of Concession, Name |        | -          |         | 2      | - ll. 16  |
|------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|-------------|----------|----------------|-----------|-------------------------|--------|------------|---------|--------|-----------|
| > C 🔒 ap-northeast-          | 1.console.aws.amazon.com/ec2/hon       | ae?region=ap-northeast-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | #Volumes:     |          |             |          |                |           |                         |        | 10 1       |         | *      | 0 🚳       |
| WS III Services Q Sea        | rch for services, features, blogs, doc | s, and more                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | [Alt+         | 5]       |             |          |                |           | D                       | ¢      | 0 1        | okyo 🔻  | ы      | argaviAWS |
| New EC2 Experience           | Successfully created volume            | e vol-Of77b80fbe21825c6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               |          |             |          |                |           |                         |        |            |         |        | ×         |
| Tell us what you think       | You can now create Amaz                | on Data Lifecycle Manage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | r policies to | automa   | te snapsho  | t manag  | ement dire     | ctly from | n this screen. Se       | lect t | he volumes | to back | up, ar | nd 🗙      |
| EC2 Dashboard                | then choose Actions, Crea              | ite snapshot lifecycle pol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | icy. For mor  | e inforr | nation, see | the Know | wiedge Cer     | nter arti | tle.                    |        |            |         |        |           |
| EC2 Global View              | Volumes (1/2)                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |          |             |          |                |           | C                       | Act    | ions 🔻     | Cre     | ate vo | lume      |
| Tags                         | Q. Search                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |          |             |          |                |           |                         |        |            | <       | 1      | > @       |
| Limits                       | ■ Name ⊽                               | Volume ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 🕫 Туре        | V        | Size        | V        | IOPS           | A         | Throughput              | A      | Snapsho    | t i     |        | Created   |
| Instances                    | Extra Volume                           | vol-0f77b80fbe21825c6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | gp2           |          | 1 GiB       |          | 100            |           | 3                       |        | -          |         | 3      | 2022/10/2 |
| Instances New                | 0 -                                    | vol-05d19e03a4aeabb26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | gp2           |          | 8 GiB       |          | 100            |           |                         |        | snap-03    | f58d3   |        | 2022/10/2 |
| Instance Types               |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | -        |             |          |                |           |                         |        |            |         |        |           |
| Launch Templates             |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |          |             |          |                |           |                         |        |            |         |        |           |
| Spot Requests                |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |          |             |          |                |           |                         |        |            |         |        |           |

3. Attaching Volume to an instance

| 📔 Attac              | ch volume   EC2 Managemer × +                                                                                   |       |
|----------------------|-----------------------------------------------------------------------------------------------------------------|-------|
| $\leftarrow \   \ni$ | C ap-northeast-1.console.aws.amazon.com/ec2/home?region=ap-northeast-1#AttachVolume:volumeId=vol-00ba4fbad3874  | I5da3 |
| aws                  | Services Q Search for services, features, blogs, docs, and more [Alt+S]                                         | D     |
| =                    | Attach volume Info<br>Attach a volume to an instance to use it as you would a regular physical hard disk drive. |       |
|                      | Basic details                                                                                                   |       |
|                      | Volume ID<br>Vol-00ba4fbad38745da3 (Extra Volume)<br>Availability Zone<br>ap-northeast-1c<br>Instance Info      |       |
|                      | Q   ed.<br>i-050a424927fc315f3<br>(Lakshmi Bhargavi) (running)                                                  |       |
|                      | Cancel Attach volume                                                                                            |       |

### 4. Creating a snapshot from the above created volume

| Crea          | ite snapshot   EC2 Man                             | iagem × +                                                                                                                            |                          |                               |                                              |                               |   |         | (       | <b>*</b> |             |
|---------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|----------------------------------------------|-------------------------------|---|---------|---------|----------|-------------|
| $\rightarrow$ | C 🔒 ap-nort                                        | theast-1.console.aws.amazon.com/ec2/home?region                                                                                      | n=ap-north               | east-1#Create                 | eSnapshot:                                   |                               |   | ß       | A 🖸     | *        | 🖬 🍈 🗄       |
| aws           | Services                                           | <b>Q</b> Search for services, features, blogs, docs, and mo                                                                          | we                       |                               | [Alt+S]                                      |                               | D | \$<br>0 | Tokyo 🔻 | bh       | argaviAWS 🔹 |
| Ŧ             | Create a point-in<br>snapshots from a<br>instance. | napshot info<br>-time snapshot of an EBS volume and use it as a b<br>an individual volume, or you can create multi-volum<br>settings | aseline for<br>ne snapsh | new volumes<br>ots from all o | s or for data backup<br>f the volumes attacl | . You can create<br>hed to an |   |         |         |          | Ô           |
|               | Resource type                                      | e Info                                                                                                                               |                          |                               |                                              |                               |   |         |         |          | L           |
|               | Select a volu                                      | ume<br>03a4aeabb26                                                                                                                   |                          | ishets from an                |                                              |                               |   |         |         |          |             |
|               | vol-00ba4fb<br>Extra Volume                        | ad38745da3                                                                                                                           |                          |                               |                                              |                               |   |         |         |          |             |
|               | vol-00ba4fb                                        | ad38745da3                                                                                                                           |                          | C                             |                                              |                               |   |         |         |          |             |
|               | Description<br>Add a descriptio                    | on for your snapshot.                                                                                                                |                          |                               |                                              |                               |   |         |         |          |             |
|               | Creating a si                                      | napshot from Extra Volume                                                                                                            |                          |                               |                                              |                               |   |         |         |          |             |
|               | 255 characters r<br>Encryption                     | maximum<br>nfo                                                                                                                       |                          |                               |                                              |                               |   |         |         |          |             |

### 5. Created Snapshot

| 👸 Snapshots   EC2 Management C   | × 🕀                                                                  |                                                 |
|----------------------------------|----------------------------------------------------------------------|-------------------------------------------------|
| ← → C 🔒 ap-northeas              | t-1.console.aws.amazon.com/ec2/home?region=ap-northeast-1#Snapshots: | 년 🌣 😈 🛊 🛛 🇳                                     |
| aws iii services Q Sr            | tarch for services, features, blogs, docs, and more [Alt+S]          | 💽 🔶 🥑 Tokyo 🕶 bhargaviAWS                       |
| New EC2 Experience               | Successfully created snapshot snap-0ab0d49e457fb7b1c.                | ×                                               |
| Tell us what you think           | Snapshots (2)                                                        | C Recycle Bin Actions Create snapshot           |
| EC2 Dashboard<br>EC2 Global View | Owned by me  Q. Search                                               | < 1 > @                                         |
| Events                           | □ Name ♥ Snapshot ID ♥ Size                                          | ♥ Description ♥ Storage ♥ Snapshot s ♥ Started  |
| Tags                             | Snapshot from Extra Volume snap-0ab0d49e457fb7b1c 1 Gi8              | Creating a snap Standard O Completed 2022/10/22 |
| Limits                           | - snap-0f832ffb668b15d3b 8 Gi8                                       | Created by Crea Standard O Completed 2022/10/17 |
| Instances                        | <u>•</u>                                                             |                                                 |
| Instances Now                    |                                                                      |                                                 |
| Instance Types                   |                                                                      |                                                 |
| Launch Templates                 |                                                                      |                                                 |
| Spot Requests                    |                                                                      |                                                 |
| Savings Plans                    |                                                                      |                                                 |
| Reserved Instances New           |                                                                      |                                                 |

6. Created an AMI from Apache-PHP instance:

| VS III Services Q Se                                                                                                                                                 | arch for services, feotures, bi                                                                 | ogs, docs, and more                                                                        | [Alt+5]                                                    | D & 0                                  | 🕉 Tokyo 🔻 bhargaviAW |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------|----------------------|
| New EC2 Experience                                                                                                                                                   | Amazon Machine                                                                                  | e Images (AMIs) (1/1) Info                                                                 |                                                            |                                        |                      |
| Tell us what you think                                                                                                                                               | C 🖸 Recyc                                                                                       | le Bin 🛛 🖸 EC2 Image Builder                                                               | Actions V Launch instand                                   | ce from AMI                            |                      |
| C2 Dashboard                                                                                                                                                         | Owned by me 🔻                                                                                   | Q. Find AMI by attribute or tag                                                            |                                                            |                                        | < 1 > @              |
| CZ Global View                                                                                                                                                       | Name Name                                                                                       | AMI ID                                                                                     | ▼   AMI name                                               | ▼   Source                             | ⊽ Öwner              |
| vents                                                                                                                                                                | AMI of Apach                                                                                    | ePHP ami-0592e77a438c8f8ac                                                                 | ApachePHP-Image                                            | 054032037173/ApachePH                  | HP-Image 0540320     |
| igs                                                                                                                                                                  | 4                                                                                               |                                                                                            |                                                            |                                        |                      |
| stances<br>stances New                                                                                                                                               |                                                                                                 |                                                                                            |                                                            |                                        |                      |
| inits<br>istances<br>istance New<br>istance Types<br>aunch Templates                                                                                                 | AMI ID: ami-059                                                                                 | 2e77a438c8f8ac (AMI of Apac                                                                | =<br>hePHP)                                                |                                        | © ×                  |
| innus<br>Istances<br>Istance Types<br>aunch Templates<br>pot Requests<br>Sugar Elsor                                                                                 | AMI ID: ami-059<br>Details Permiss                                                              | 2e77a438c8f8ac (AMI of Apac<br>sions Storage Tags                                          | =<br>hePHP)                                                |                                        | © ×                  |
| stances<br>stances Mean<br>stance Types<br>unch Templates<br>toot Requests<br>wings Plans<br>seaned Jestances                                                        | AMI ID: ami-059<br>Details Permiss                                                              | 2e77a438c8f8ac (AMI of Apac<br>sions Storage Tags                                          | hePHP) =                                                   | Root device t                          | © ×                  |
| stances<br>stances New<br>stance Types<br>unch Templates<br>tot Requests<br>vings Plans<br>served Instances New                                                      | AMI ID: ami-059<br>Details Permiss                                                              | 2e77a438c8f8ac (AMI of Apac<br>sions Storage Tags<br>(mage type<br>machine                 | hePHP) =<br>Platform details<br>Linux/UNIX                 | Root device ty<br>EBS                  | ⊗ ×<br>ype           |
| stances<br>stances New<br>stance Types<br>unch Templates<br>bot Requests<br>wings Plans<br>searved Instances New<br>edicated Hosts                                   | AMI ID: ami-059<br>Details Permiss<br>AMI ID<br>D<br>ami-0592e77a438c8<br>Ami-0592e77a438c8     | 2e77a438c8f8ac (AMI of Apac<br>sions Storage Tags<br>Image type<br>machine<br>f8ac (AMI of | hePHP) =<br>Platform details<br>Linux/UNIX                 | Root device ty<br>EBS                  | © ×<br>ype           |
| stances<br>stances New<br>stance Types<br>uunch Templates<br>not Requests<br>wings Plans<br>searved Instances New<br>edicated Hosts<br>apacity Reservations          | AMI ID: ami-059<br>Details Permiss<br>AMI ID<br>D<br>ami-0592e77a438c8<br>ApachePHP)            | 2e77a438c8f8ac (AMI of Apac<br>sions Storage Tags<br>Image type<br>machine<br>f8ac (AMI of | hePHP) =<br>Platform details<br>Linux/UNIX                 | Root device ty<br>EBS                  | © ×<br>ype           |
| stances<br>stances New<br>stance Types<br>uunch Templates<br>not Requests<br>wings Plans<br>eserved Instances New<br>edicated Hosts<br>apacity Reservations<br>hages | AMI ID: ami-059<br>Details Permiss<br>AMI ID<br>D<br>ami-0592e77a438c8<br>ApachePHP<br>AMI name | 2e77a438c8f8ac (AMI of Apac<br>sions Storage Tags<br>Image type<br>machine<br>f8ac (AMI of | hePHP) =<br>Platform details<br>Linux/UNIX<br>Architecture | Root device ty<br>EBS<br>Usage operati | © ×<br>ype           |

7. Launching an instance from AMI:

| Services Q. Search for services, features, blogs, docs, and more                                                                                                                                                                                                                               | [Alt+S]                                                                                              | Ъ & Ø Токуо ▼                                                                                                                                                                                        | bhargaviAWS |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Name and tags info                                                                                                                                                                                                                                                                             |                                                                                                      | ▼ Summary                                                                                                                                                                                            | 10          |
| Name                                                                                                                                                                                                                                                                                           |                                                                                                      |                                                                                                                                                                                                      |             |
| BhargaviNukala-AMI Instance                                                                                                                                                                                                                                                                    | Add additional tags                                                                                  | Number of instances Info                                                                                                                                                                             |             |
|                                                                                                                                                                                                                                                                                                |                                                                                                      | 1                                                                                                                                                                                                    |             |
| <ul> <li>Application and OS Images (Amazon Machine Image) Info<br/>An AMI is a template that contains the software configuration (operating system, applicat<br/>launch your instance. Search or Brewse for AMIs If you don't see what you are looking for</li> </ul>                          | tion server, and applications) required to below                                                     | Software Image (AMI)<br>ApachePHP-Image                                                                                                                                                              | -           |
| Q, Search our full catalog including 1000s of opplication and OS images                                                                                                                                                                                                                        |                                                                                                      | Virtual server type (instance type)<br>t2.micro<br>Firewall (security group)                                                                                                                         |             |
| Q. Search our full catalog including 1000s of application and OS images       AMI from catalog     Recents     My AMIs     Quick Start                                                                                                                                                         |                                                                                                      | Virtual server type (instance type)<br>t2.micro<br>Firewall (security group)<br>New security group<br>Storage (volumes)                                                                              |             |
| Q. Search our full catalog including 1000s of application and OS images       AMI from catalog     Recents     My AMIs     Quick Start       Amazon Machine Image (AMI)                                                                                                                        |                                                                                                      | Virtual server type (instance type)<br>t2.micro<br>Firewall (security group)<br>New security group<br>Storage (volumes)<br>1 volume(s) - 8 GiB                                                       |             |
| Q. Search our full catalog including 1000s of opplication and OS images       AMI from catalog     Recents     My AMIs     Quick Start       Amazon Machine Image (AMI)       ApachePHIP-Image                                                                                                 | Q,<br>Browse more AMIs                                                                               | Virtual server type (instance type)<br>t2.micro<br>Firewall (security group)<br>New security group<br>Storage (volumes)<br>1 volume(s) - 8 GiB                                                       |             |
| Q. Search our full catalog including 1000s of opplication and OS images       AMI from catalog     Recents     My AMIs     Quick Start       Amazon Machine Image (AMI)       ApachePHIP-Image       ami-0592e77a438c8F8ac                                                                     | Q<br>Browse more AMIs<br>Including AMIs from<br>AWS, Marketplace and<br>the Community                | Annose Pressussat       Virtual server type (instance type)       t2.micro       Firewall (security group)       New security group       Storage (volumes)       1 volume(s) - 8 GiB         Cancel |             |
| Q. Search our full catalog including 1000s of opplication and OS images       AMI from catalog     Recents     My AMIs     Quick Start       Amazon Machine Image (AMI)       ApachePHIP-Image       ami-0592e77a438c8f8ac       Published     Architecture     Virtualization     Root device | Q<br>Browse more AMIs<br>Including AMIs from<br>AWS, Marketplace and<br>the Community<br>ENA Enabled | Cancel                                                                                                                                                                                               |             |

8. Instance availability

| New EC2 Experience     Tel is what you one     Yee is you one     Yee | Alarm statu<br>No alarms                  | ©<br>us<br>+<br>+ |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------|
| EC2 Dashboard       Instance state = running × Clear filters         EC2 Global View       Name ▼ Instance ID Instance state ▼ Instance type ▼ Status check         Tags       BhargaviNukala-AMI Instance I-Ob012bbeb73e03088       Instance state ▼ Instance type ▼ Status check         Limits       Lakshmi Bhargavi Nukala       I-O50a424927fc315f3       Instance 0         Instances New       Instance Types       Select an instance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Alarm statu<br>1 No alarms<br>1 No alarms | us  <br>+<br>+    |
| Events     Name     v     Instance 10     Instance state     v     Instance type     v     Status check       Tags     BhargaviNukala-AMI Instance     i-0b012bbeb73e03088                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Alarm stati<br>No alarms<br>No alarms     | us<br>+<br>+      |
| Tags       BhargaviNukala-AMI Instance       i-Ob012bbeb73c03088       Image Running       Q.Q.       t2.micro       Image 2/2 checks passed         Limits       Lakshmi BhargaviNukala       i-O50a424927fc315f3       Image Running       Q.Q.       t2.micro       Image 2/2 checks passed         Instances       Instances       Image Running       Image Runing       Ima                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | d No alarms<br>1 No alarms                | ++                |
| Limits Lakshni Bhargavi Nukala i-050a424927fc315f3 @ Running @@ t2.micro @ 2/2 checks passed instances Instances New Instance Types Select an instance Select an instance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | d No alarms                               | +                 |
| Instances Instance Types Select an instance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           |                   |
| Select an instance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                           |                   |
| Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Capacity Reservations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ۲                                         | ×                 |

### 9. Connected AMI instance from Console

| 📔 İnsta            | inces   EC2 Manage            | ement Co 🗴 🈑 EC2 Instance Connect                               | × +               | Course Street St.       | -                       | -                                |           |         | (        |           | 3 <b>. X</b>   |
|--------------------|-------------------------------|-----------------------------------------------------------------|-------------------|-------------------------|-------------------------|----------------------------------|-----------|---------|----------|-----------|----------------|
| $\leftrightarrow$  | C 🗎 ap-r                      | northeast-1.console.aws.amazon.com/ec2-instan                   | ce-connect/ssh?co | nnType=standard&instanc | eld=i-0b012bbeb73e0308  | 88tosUser=root8tregion=          | ap-north. | 6       | <u>۲</u> | * 🛛       | 🍈 :            |
| aws                | Services                      | Q Search for services, features, blogs, docs, o                 | and more          | [Alt+5]                 |                         | Ð                                | \$        | 0       | Tokyo 🔻  | bharga    | wiaws <b>T</b> |
| root01p            | 172-31-4-63                   | Ir# sudo su<br>Ir#\$ ∎                                          |                   |                         |                         |                                  |           |         |          |           |                |
| i-0b01<br>PublicIP | 12bbeb73e0<br>%: 54.65.10.104 | 3088 (BhargaviNukala-AMI Instance)<br>PrivatelPs: 172.31.4.61   | )                 |                         |                         |                                  |           |         |          |           | ×              |
| Feedback           | c Looking for l               | anguage selection? Find it in the new <b>Unified Settings</b> [ | 2                 |                         | © 2022, Amazon Internet | Services Private Ltd. or its aff | iliates.  | Privacy | Terms    | Cookie pr | eferences      |

10. Apache and PHP running on AMI instance



### 11. Editing the IN-Bound Rules of Security Group to give access to HTTP port no 80

| dit inbound ru                | les info                         |                    |            |             |             |                        |            |    |
|-------------------------------|----------------------------------|--------------------|------------|-------------|-------------|------------------------|------------|----|
| bound rules control the incon | ning traffic that's allowed to r | each the instance. |            |             |             |                        |            |    |
| Inbound rules Info            |                                  |                    |            |             |             |                        |            |    |
| Security group rule ID        | Type Info                        | Protocol           | Port range | Source Info |             | Description - optional |            |    |
| sgr-Obe8a3fcf4aO99dc8         | SSH                              | TCP                | 22         | Custom 🔻    | ٩           |                        | Delet<br>e | וו |
| 5 <b>0</b>                    | нттр                             | TCP                | 80         | Anywh 🔻     | 0.0.0.0/0 X |                        | Delet      | 1  |
|                               |                                  |                    |            |             | 0.0.0.0/0 × |                        | e          |    |

### 12. Accessing the new AMI instance from Browser



## Load Balancer:

1. Create a new Security Group with ports 22 and 80 open required to create a load balancer

| Services                                                                | Q Search                      | for services, fe              | atures, blogs, docs, and mor | e           | [Alt+S]                |             | Ð               | \$ ( | 🕽 🛛 Takyo 🔻        | bhargav |
|-------------------------------------------------------------------------|-------------------------------|-------------------------------|------------------------------|-------------|------------------------|-------------|-----------------|------|--------------------|---------|
| Security group nan                                                      | ne Info                       |                               |                              |             |                        |             |                 |      |                    |         |
| ALBSG                                                                   |                               |                               |                              |             |                        |             |                 |      |                    |         |
| Name cannot be edite                                                    | ed af <mark>ter c</mark> reat | lan,                          |                              |             |                        |             |                 |      |                    |         |
| Description Info                                                        |                               |                               |                              |             |                        |             |                 |      |                    |         |
| ALBSG                                                                   |                               |                               |                              |             |                        |             |                 |      |                    |         |
|                                                                         |                               |                               |                              |             |                        |             |                 |      |                    |         |
|                                                                         |                               |                               |                              |             |                        |             |                 |      |                    |         |
| VPC Info                                                                |                               |                               |                              |             |                        |             |                 |      |                    |         |
| VPC Info<br>Q vpc-0497329                                               | 99863a13d                     | 48                            |                              | >           | <                      |             |                 |      |                    | -       |
| VPC into<br>Q vpc-0497329<br>Inbound rules<br>Type Info                 | 99863a13d                     | 48<br>Protocol<br>Info        | Port range info              | Source info | K                      | Description | - optional Info |      |                    |         |
| VPC info<br>Q vpc-0497329<br>Inbound rules<br>Type info<br>SSH          | 99863a13d                     | 48<br>Protocol<br>Info<br>TCP | Port range Info<br>22        | Source Info | <                      | Description | - optional Info |      | Dele               |         |
| VPC info<br>Q vpc-0497329<br>Inbound rules<br>Type info<br>SSH          | 99863a13d-<br>i Info          | 48<br>Protocol<br>Info<br>TCP | Port range Info<br>22        | Source Info | <<br>Q.<br>0.0.0.0/0 X | Description | - optional Info |      | Dele<br>te         |         |
| VPC info<br>Q. vpc-0497329<br>Inbound rules<br>Type info<br>SSH<br>HTTP | 99863a13d<br>i Info           | 48<br>Protocol<br>Info<br>TCP | Port range Info<br>22<br>80  | Source Info | <<br>Q<br>Q            | Description | - optional Info |      | Dele<br>te<br>Dele |         |

### 2. Create a new Target Group for the instances to be connected on load balancer. Here we specify all

| /S Services | Q Search for s | services, features, blogs, docs, and more                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | [Alt+S]                     |                                                     | D 4             | 0 | Tokyo 🔻 | bhargaviAWS 🔻 |
|-------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------|-----------------|---|---------|---------------|
|             |                | Health check protocol HTTP  Health check path Use the default path of */* to ping the root, or specify / Up to 1024 characters allowed.  Advanced health check settings Port The port the load balancer uses when performing heal load balancer, but you can specify a different port.  Advanced health check settings Port Traffic port Override Healthy threshold The number of consecutive health checks successes rec 5 2-10 Unhealthy threshold The number of consecutive health check failures requi 2 | a custom path if preferred. | Port on which each target receit<br>target healthy. | estore defaults |   |         |               |

parameters like Healthy score, Unhealthy score, timeout etc.

3. Create a load balancer with above created security group ALBSG and target group ALB-TG



5. Connect to Load Balancer from WebPage using dns name of load balancer



6. Try to access phpinfo.php page from the web and we can see that two IP addresses 172.31.4.61 and

#### 172.31.12.150 are appearing alternatively

| PHP Version 8.1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ph                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Linux (p-172-31-12-158 5-15-0-1019-ave #23-Ubuntu SMP Wed Aug 17-18-33-13 UTC 2022 xx85_64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Build Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Aug 8 2022 07 28 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Build System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Linux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Server API                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Apache 2.0 Handler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Virtual Directory Support                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | disabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Configuration File (php.ini) Path                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | /etc/php/8.1/apache2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Loaded Configuration File                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | /etc/php/8_t/apache2/php.ini                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Scan this dir for additional .ini files                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | retc/php/8_1/apache2/conf_d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Additional .ini files parsed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Velodiová: 4 Japache2 (conf. 6/10-opocacha ini, Velodiphi) 5 Japache2 (conf.d/10-opolini,<br>Velodiová: 8 Japache2 (conf.d/20-acendenii ini, Velodiphi) 5 Japache2 (conf.d/20-4typia ini,<br>Velodiová: 8 Japache2 (conf.d/20-acendenii ini, Velodiphi) 5 Japache2 (conf.d/20-4typia ini, Velodiphi) 5 Japache2 (conf.d/20-4typia ini,<br>Velodiphi) 1 Japache2 (conf.d/20-acent, ini, Velodiphi) 5 Japache2 (conf.d/20-4typia ini, Velodiphi) 5 Japache2 (conf.d/20-4typia ini,<br>Velodiphi) 1 Japache2 (conf.d/20-4cent, ini, Velodiphi) 5 Japache2 (conf.d/20-4typia) 1 |
| PHP API                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 20210902                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| PHP Extension                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20210902                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Zend Extension                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 420210902                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Zend Extension Build                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | API420210902,NTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| and the and the second s |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| ← → C ▲ N | ot secure alb-bhargavinukala-1153850297.ap-no | rtheast-1.elb.amazonaws.com/phpinfo.php G 년                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | \$ | * | ≡/ | 1 : |
|-----------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|----|-----|
|           | PHP Version 8.1.2                             | Php                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | )  |   |    |     |
|           | System                                        | Linux ip-172-31-4-61-5-15-0-1022-aws #26-Ubuntu SMP Thu Oct 13 12:59:25 UTC 2022 x85_64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |   |    |     |
|           | Build Date                                    | Aug 8 2022 07 28:23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |   |    |     |
|           | Build System                                  | Linux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |   |    |     |
|           | Server API                                    | Apache 2 D Handler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |   |    |     |
|           | Virtual Directory Support                     | disabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |   |    |     |
|           | Configuration File (php.ini) Path             | /elc/php/8.1/apache2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |   |    |     |
|           | Loaded Configuration File                     | /elc/ohp/8.1/apache2/ohp.ini                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1  |   |    |     |
|           | Scan this dir for additional .ini files       | /etc/php/8.1/apache2/conf.d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -  |   |    |     |
|           | Additional .ini files parsed                  | Velicibip8: Haaache2/conf.d10-opcache in, Netophy% Haashe2/conf.d10-spot.ini,<br>Velicibip8: Haaache2/conf.d20-searcheaim: (Netophy%) Haashe2/conf.d20-spot.ini,<br>Velicibip8: Haaache2/conf.d20-searche2/conf.d20-file; Haashe2/conf.d20-file; Maache2/conf.d20-<br>file; Molini, Velicibip8: Haaache2/conf.d20-file; Mi, Velicibip8: Haaache2/conf.d20-abit.ini, Velicibip8: Haaache2/conf.d20-<br>posit.ini, Velicibip8: Haaache2/conf.d20-low; Mi, Velicibip8: Haaache2/conf.d20-abit.ini, Velicibip8: Haaache2/conf.d20-posit.ini, Velicibip8: Haaache2/conf.d20-posit.ini, Velicibip8: Haaache2/conf.d20-posit.ini, Velicibip8: Haaache2/conf.d20-spot.ini,<br>Velicibip8: Haaache2/conf.d20-searchiaini, Velicibip8: Haaache2/conf.d20-shroob.ini,<br>Velicibip8: Haaache2/conf.d20-searchiaini, Velicibip8: Haaache2/conf.d20-system.ini,<br>Velicibip8: Haaache2/conf.d20-searchiaini, Velicibip8: Haaache2/conf.d20-system.ini,<br>Velicibip8: Haaache2/conf.d20-searchiaini, Nelicibip8: Haaache2/conf.d20-system.ini,<br>Velicibip8: Haaache2/conf.d20-searchiaini, Nelicibip8: Haaache2/conf.d20-system.ini,<br>Velicibip8: Haaache2/conf.d20-searchiaini, Nelicibip8: Haaache2/conf.d20-system.ini, Nelicibip8: Haaache2 |    |   |    |     |
|           | PHP API                                       | 20210902                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |   |    |     |
|           | PHP Extension                                 | 20210902                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1  |   |    |     |
|           | Zend Extension                                | 420210902                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |   |    |     |
|           | Zend Extension Build                          | API420210902.NT6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |   |    |     |
|           | PHP Extension Build                           | API20210902,NTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1  |   |    |     |
|           | Debug Build                                   | no                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |   |    |     |
|           | Thread Safety                                 | disabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |   |    |     |
|           | Zend Signal Handling                          | enabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |   |    |     |
|           | Zend Memory Manager                           | enabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |   |    |     |
|           | Zend Multibyte Support                        | disabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |   |    |     |

This shows the load balancer is working between the instances.

## VPC:

### 1. Create a new VPC and provided range of VPC as 192.168.0.0/16

| Services Q So                                                   | arch far services, features, blogs, docs, and more | [Alt+S]               |             |   | <b>N</b> 4     | 0   | Tokyo 🔻 | bharga | wiAWS |
|-----------------------------------------------------------------|----------------------------------------------------|-----------------------|-------------|---|----------------|-----|---------|--------|-------|
| New VPC Experience X                                            | Your VPCs (2) Info                                 |                       |             |   | C Actions      | s 🔻 | Create  | VPC    | ٩     |
| VPC dashboard                                                   | Q, Filter VPCs                                     |                       |             |   |                |     | < 1 >   | ۲      |       |
| EC2 Global View 🗹 👷                                             | Name                                               | <br>VPC ID V          | State       | v | IPv4 CIDR      | ⊽   | IPv6 CI | DR     |       |
| ilter by VPC:                                                   |                                                    | vpc-04973299863a13d48 | ⊘ Available |   | 172.31.0.0/16  |     | -       |        |       |
| Select a VPC 🛛 🔻                                                | VPC-BhargaviNukala                                 | vpc-01dd8f16dd9404b10 | ⊘ Available |   | 192.168.0.0/16 |     | -       |        |       |
| Subnets                                                         |                                                    |                       |             |   |                |     |         |        |       |
| subnets                                                         |                                                    | <br>·                 |             |   |                |     |         | -      |       |
| nternet cateways                                                | Select a VPC above                                 |                       |             |   |                |     | -       | -      |       |
| aress-only internet                                             |                                                    |                       |             |   |                |     |         |        |       |
| jateways                                                        |                                                    |                       |             |   |                |     |         |        |       |
| ateways<br>'arrier gateways                                     |                                                    |                       |             |   |                |     |         |        |       |
| gateways<br>Carrier gateways<br>DHCP Option Sets                |                                                    |                       |             |   |                |     |         |        |       |
| gateways<br>Carrier gateways<br>DHCP Option Sets<br>Elastic IPs |                                                    |                       |             |   |                |     |         |        |       |

2. Create two subnets, one as Public subnet and one as Private Subnet in our VPC

|                |             |   | C Acti                    | ons V | Create      | subnet | Q |
|----------------|-------------|---|---------------------------|-------|-------------|--------|---|
|                |             |   |                           |       | < 1         | > @    | ) |
| V              | State       | V | VPC                       | V     | IPv4 CIDR   |        |   |
| a0d459255e6dcc | ⊘ Available |   | vpc-01dd8f16dd9404b10   V | /P    | 192.168.0.0 | /24    | 1 |
| ff0cb9033b9270 | ⊘ Available |   | vpc-04973299863a13d48     |       | 172.31.32.0 | /20    |   |
| 9f91528b0281a9 | ⊘ Available |   | vpc-01dd8f16dd9404b10   V | /P    | 192.168.2.0 | /24    |   |
| 800d57321a00b2 | ⊘ Available |   | vpc-04973299863a13d48     |       | 172.31.0.0/ | 20     |   |
|                | A           |   | 04077300007-17-140        |       | 17771100    | (nn    |   |
| -              | =_          |   |                           |       |             |        | 0 |
|                |             |   |                           |       |             |        |   |
|                |             |   |                           |       |             |        |   |
|                |             |   |                           |       |             |        |   |
|                |             |   |                           |       |             |        |   |
|                |             |   |                           |       |             |        |   |

### 3. Create two Route Tables, one for Public Subnet and One for Private Subnet

| New VPC Experience ×                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      | ch for services, features, | blogs, docs, and mo | re                  | [Alt+S] |                          | D                 | \$ Ø   | Tokyo 🔻 bhar    | gaviAWS |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------|---------------------|---------------------|---------|--------------------------|-------------------|--------|-----------------|---------|
| VPC dashboard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | New VPC Experience X | Route tables (4            | ) Info              |                     |         |                          | C Actions         | Cre    | ate route table | 9       |
| C2 Global View ≧ we       Name       ▼       Route table ID       ▼       Explicit subnet associat       Edge associations       Main       ▼       VPC         Select a VPC       -       -       rtb-079d4cda1c6/0ffc9       -       -       Yes       vpc-0497329         Select a VPC       -       -       rtb-04ffd3b9025696ac8       -       -       Yes       vpc-0497329         Intrual private cloud       VPC-BN-PrvRT       rtb-04ffd3b9025696ac8       -       -       No       vpc-01d8f1         VPC-BN-PrvRT       rtb-02454460ac9abbb66       subnet-082a0d459255e       -       No       vpc-01d8f1         VPC-BN-PubRT       rtb-09061661968136049       subnet-06a9f91528b02       -       No       vpc-01d8f1         VPC-D1005815       -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | /PC dashboard        | Q. Filter route tab        | oles                |                     |         |                          |                   |        | (1) @           | 1       |
| select ar VPC:     Select ar VPC:     -     rtb:04ffd3b9025696ac8     -     VPC:BN-PrvRT     VPC:BN-PubRT     VPC:BN-PubRT </th <th>C2 Global View 🖄 🗤</th> <th>Name</th> <th>v R</th> <th>oute table ID</th> <th>7</th> <th>Explicit subnet associat</th> <th>Edge associations</th> <th>Main ⊽</th> <th>VPC</th> <th></th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | C2 Global View 🖄 🗤   | Name                       | v R                 | oute table ID       | 7       | Explicit subnet associat | Edge associations | Main ⊽ | VPC             |         |
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bhargan<br>C Act<br>Edge associations<br>-<br>-<br>-                                                                                                            | Edit subn<br>iniqual4() ×<br>Main<br>Yes<br>Yes<br>No<br>No                                                                               | tivasy Tenn<br>tivasy Tenn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | tions<br>ms Cookie pre<br>Cookie pre<br>to that table<br>to bharge<br>butte table<br>to Cookie table<br>t                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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5. Create an Internet Gateway

| NS Services Q Sec                                                                                                                                  | rch for services, fe | atures, blogs, da          | cs, and n | nore [Alt+5]          |   |            |   |                        | 0 1        | lokya 🔻 | bhargavia |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------|-----------|-----------------------|---|------------|---|------------------------|------------|---------|-----------|
| ) New VPC Experience X<br>Tell us what you think                                                                                                   | Internet g           | j <mark>ateways</mark> (2) | Info      |                       | - |            | C | Actions V Cr           | eate inter | met ga  | iteway    |
| VPC dathboard                                                                                                                                      | Q Filter in          | iternet gateway:           | ŝ         |                       |   |            |   |                        | <          | 1       | > @       |
| EC2 Global View 🗹 🗤                                                                                                                                | Nan Nan              | ae                         | v         | Internet gateway ID   | v | State      | v | VPC ID                 |            | v       | Owner     |
| liter by VPC:                                                                                                                                      | 0 -                  |                            |           | igw-01c77da80e3949ca5 |   | ⊘ Attached |   | vpc-04973299863a13d48  |            |         | 05403203  |
| Select a VPC 🔹                                                                                                                                     | IGW                  | -BhargaviNukal             | a         | lgw-04771585a11278d34 |   | Attached   |   | vpc-01dd8f16dd9404b10[ | VPC-Bhan   | q       | 05403203  |
| iour rres                                                                                                                                          |                      |                            |           |                       |   |            |   |                        |            |         |           |
| Subnets<br>Route tables                                                                                                                            | Select an inte       | rnet gateway a             | bove      | (*                    | - |            |   |                        |            |         |           |
| Subnets<br>Route tables<br>I <b>nternet gateways</b><br>Egress-only internet<br>gateways                                                           | Select an inte       | ernet gateway a            | ibove     |                       |   |            |   |                        |            |         |           |
| Subnets<br>Subnets<br>Route tables<br>Internet gateways<br>Garrier gateways<br>Carrier gateways                                                    | Select an into       | ernet gateway a            | ibove     |                       |   |            |   |                        |            |         |           |
| Subnets<br>Subnets<br>Route tables<br>Internet gateways<br>Egress-only internet<br>gateways<br>Carrier gateways<br>DHCP Option Sets                | Select an inte       | ernet gateway a            | ibove     |                       |   |            |   |                        |            |         | •         |
| Subnets<br>Subnets<br>Route tables<br>Internet gateways<br>Egress-only internet<br>gateways<br>Carrier gateways<br>DHCP Option Sets<br>Elastic IPs | Select an into       | rnet gateway a             | ibove     |                       |   |            |   |                        |            |         |           |

### 6. Connect Public Route Table to Internet Gateway

| Route tables   VPC Managema 🗙                       | 😑 EC2 Instance Connect        | X S Apache2 Ubuntu Default Page X                               | School of Continuing and Di | iii 🗙 🛛 附 Inbox (6) - | bhargavi.aqua04@ | × (+)    |            |            |
|-----------------------------------------------------|-------------------------------|-----------------------------------------------------------------|-----------------------------|-----------------------|------------------|----------|------------|------------|
| → C E ap-northeast-1                                | .console.aws.amazon.com/vpc/h | ome?region=ap-northeast-1#RouteTables:<br>ocs. and more [Alt+S] | T                           |                       | ڪ<br>4 ک         | ¢<br>0   | Tokya 🔻    | 🗊 🔲 🍕      |
| New VPC Experience X                                | Route tables (1/4)            | 10<br>10                                                        |                             | C                     | Actions <b>T</b> | Creat    | le route   | table      |
| VPC dashboard<br>EC2 Global View 🔀 🌆                | Q Filter route tables         |                                                                 | Explicit subnet associat.   | Edge associa          | ations Mai       | <<br>n ⊽ | 1 )<br>VPC | ٥          |
| Filter by VPC:                                      | <u> </u>                      | rtb-079d4cda1c6f0ffc9                                           |                             | -52                   | Yes              |          | vpc-04     | 1973299863 |
| Select a VPC                                        | -                             | rtb-04ffd3b9025696ac8                                           | -                           | -                     | Yes              |          | vpc-01     | idd8f16dd9 |
| Virtual private cloud                               | VPC-BN-PrvRT                  | rtb-02454460ac9abbbe6                                           | subnet-082a0d459255e.       | e (#2)                | No               |          | vpc-01     | dd8f16dd9  |
| Your VPCs                                           | VPC-BN-PubRT                  | rtb-09061661968136049                                           | subnet-06a9f91528b02        |                       | No               |          | vpc-01     | (dd8f16dd9 |
| Subnets                                             | 4                             |                                                                 |                             |                       |                  |          |            | ,          |
| toute tables                                        |                               |                                                                 | =                           |                       |                  |          |            |            |
| nternet gateways<br>gress-only internet<br>jateways | Q Filter routes               |                                                                 |                             | B                     | oth 🔻            | < 1      | >          | 0          |
| Carrier gateways                                    | Destination                   | ♥ Target                                                        | V                           | Status                |                  | ted      |            | ⊽          |
| HCP Option Sets                                     | 0.0.0.0/0                     | lgw-04771585a11278d34                                           |                             | ⊘ Active              | No               |          |            | - 11       |
| Elastic IPs                                         | 192.168.0.0/16                | local                                                           |                             | ⊘ Active              | No               |          |            |            |

7. Created two instances in VPC, one in Private Subnet and one in Public subnet

| <ul> <li>instances   EC2 Management </li> <li>A dependent </li> <li>A dependent </li> </ul> | EC2 Instance Connect × S Apache2 Ubuntu Defi<br>-1.console.aws.amazon.com/ec2/home?region =ap-northeast-1 | ult Page 🛪 🛛 🔕 School of Continuing and Dise 🛪 🗍 t<br>#Instances:instanceState=nunning:v=3:\$case=tags:t | 🕶 Inbox (5) - bhargavi.aqua040 🗙 🕂 🔍 🖃 🛤<br>rue%SSC,chientifalse:Srege 😰 🏚 🗊 🗖 🚳 |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| aws Services Q Ser                                                                          | arch for services, features, blogs, docs, and more                                                        | [Alt+S]                                                                                                  | D. 🚓 ⊘ Tokyo ▼ bhargaviAV                                                        |
| New EC2 Experience X                                                                        | Successfully stopped i-0b012bbeb73e03088,i-050a                                                           | 124927fc315f3                                                                                            | ×                                                                                |
| EC2 Dashboard                                                                               | Instances (2) Info                                                                                        | C Connect Instance stat                                                                                  | e 🔻 Actions 🔻 Launch Instances 🔍                                                 |
| EC2 Global View                                                                             | Q. Find instance by attribute or tag (case-sensitive)                                                     |                                                                                                          | < 1 > @                                                                          |
| Events                                                                                      | Instance state = running X Clear filters                                                                  |                                                                                                          |                                                                                  |
| Tags                                                                                        |                                                                                                           |                                                                                                          |                                                                                  |
| Limits                                                                                      | Name ♥ Instance I                                                                                         | D Instance state ♥ Ins                                                                                   | tance type                                                                       |
|                                                                                             | VPC-BN-PubEC i-06dd7cf                                                                                    | b4c48733a3 ⊘Running @Q t2.                                                                               | micro Ø 2/2 checks passed No alarms +                                            |
| Instances                                                                                   | VPC-BN-PrvEC i-061ecdd                                                                                    | 7c87252768 ⊘Running @Q t2.                                                                               | micro O 2/2 checks passed No alarms +                                            |
| Instances New                                                                               |                                                                                                           |                                                                                                          |                                                                                  |
| Instance Types                                                                              | Instances i 0h012hbab77a07099 (Phares                                                                     | =                                                                                                        | 7fc715f7 (Lakshmi Bhargavi 🖉 🗸                                                   |
| Launch Templates                                                                            | Nukala)                                                                                                   | whokata-APH instance), 1-050a42452                                                                       | A Constant Caksinin Bhargavi                                                     |
| Spot Requests                                                                               |                                                                                                           |                                                                                                          |                                                                                  |
| Savings Plans                                                                               | Monitoring                                                                                                |                                                                                                          |                                                                                  |
| Reserved Instances new                                                                      |                                                                                                           |                                                                                                          |                                                                                  |
| Dedicated Hosts                                                                             |                                                                                                           | 1h 3h 12h 1d 3d 1w                                                                                       | Custom 🗉 🖸 🔻 Add to dashboard                                                    |
| Capacity Reservations                                                                       | CPU utilization (%)                                                                                       | eck failed (an I Status check faile                                                                      | d (ins I Status check failed (sys I                                              |
| Images                                                                                      | Percent Count                                                                                             | Count                                                                                                    | Count                                                                            |
| AMIS New                                                                                    | 3.87                                                                                                      |                                                                                                          | тт                                                                               |
| AMI Catalog                                                                                 | • A                                                                                                       |                                                                                                          |                                                                                  |

## 8. Login to Instance in Public subnet and try to Ping instance in Private subnet from Instance in Public subnet

| 😝 Instances   EC2 Management 🗧 🗙 🧕 EC2 Instance Connect 🛛 🗴 🎯 Apache2 Uburtu I                                  | Default Page 🗙 🗍 🔕  | School of Continuing and Disc. 3 | 🗙 🗍 M (nibox (5) – 1 | hargavi.aqua | 04@ ×  | +  |       |      | D X        |   |
|-----------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------|----------------------|--------------|--------|----|-------|------|------------|---|
| $\leftarrow$ $\rightarrow$ C $\blacksquare$ ap-northeast-1.console.aws.amazon.com/ec2-instance-connect/ssh?conn | nType=standard&inst | ancelid=i-05dd7cfb4c48733a       | 3&osUser=ec2-us      | er&region=   | - 12 1 | 4  | *     | SV 🗆 | <b>(</b> ) |   |
| aws III Services Q. Search for services, features, blogs, docs, and more                                        | [Alt+S]             |                                  |                      | 2            | 0 Q    | То | kyo 🔻 | bha  | rgaviAWS 🔻 |   |
| Last login: Sat Oct 22 14:34:38 2022 from ec2-3-112-23-5.ap-northe<br>                                          | est-1.compute.      | amazonaws.com                    |                      |              |        |    |       |      |            |   |
| i-06dd7cfb4c48733a3 (VPC-BN-PubEC)                                                                              |                     |                                  |                      |              |        |    |       |      | >          | < |
| PublicIPs: 54,199.59.232 PrivateIPs: 192.168.2.30                                                               |                     |                                  |                      |              |        |    |       |      |            |   |

9. Ssh to private instance will fail, so Copied the pemtest.pem file onto Public EC2 instance and changed the permissions



10. Now when we should be able to Connect to a private EC2 instance from a public EC2 instance using ssh



11. Create NAT GateWay to get internet connection to instances on Private Subnet

|                                |                                            |                 | 12        | <u> </u>      | lokyo +      | onargaview |
|--------------------------------|--------------------------------------------|-----------------|-----------|---------------|--------------|------------|
| New VPC Experience X           | NAT gateways (1/1) Info                    |                 | CAc       | ions 🔻 Crea   | te NAT gatev | vay        |
| DC dasbboard                   | Q. Filter NAT gatewoys                     |                 |           |               | < 1 >        | ۲          |
| C2 Global View 🛛 New           | Name 👳 NAT gateway ID                      | ♥ Connectivit ♥ | State ⊽   | State message | ♥ Elast      | ic IP addr |
| Iter by VPC:                   | NGW-BhargaviNukala nat-0c26f0b041bd9c001   | Public          | Available |               | 52.19        | 99,17.43   |
| our VPCs<br>abnets             |                                            |                 |           |               |              |            |
| oute tables                    |                                            | =               |           |               |              |            |
| ternet gateways                | nat-0c26f0b041bd9c001 / NGW-BhargaviNukala |                 |           |               |              | *          |
| gress-only internet<br>ateways | Details Monitoring Tags                    |                 |           |               |              |            |
|                                | 1                                          |                 |           |               |              |            |
| amer gateways                  |                                            |                 |           |               |              |            |

### 12. Attaching Private RouteTable to NAT Gateway

| 240111 SALESSTREES OF TRANSPORT    |                                       | Notes States          | and and a second se | 1200211           | water in water of | 1.0000000000000000000000000000000000000 |           |
|------------------------------------|---------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-----------------------------------------|-----------|
| Services Q Sear                    | rch for services, features, blogs, do | ocs, and more [Alt    | +5]                                                                                                            | Ŀ                 | \$ @              | Tokyo 🔻                                 | bhargaviA |
| New VPC Experience X               | Route tables (1/4) Inf                | lo                    |                                                                                                                | C Action          | is 🔻 Cr           | eate route tab                          | le        |
| /PC dashboard                      | Q Filter route tables                 |                       |                                                                                                                |                   |                   | < 1 >                                   | ٢         |
| :C2 Global View 🗹 New              | Name                                  | ♥ Route table ID ♥    | Explicit subnet associat                                                                                       | Edge associations | Main 🕈            | VPC                                     |           |
| Filter by VPC:                     | D -                                   | rtb-079d4cda1c6f0ffc9 | -                                                                                                              | 173               | Yes               | vpc-0497                                | 3299863   |
| Select a VPC 🔹                     | D                                     | rtb-04ffd3b9025696ac8 | -                                                                                                              | 123)<br>1         | Yes               | vpc-01dd                                | 8f16dd9   |
| Virtual private cloud              | VPC-BN-PrvRT                          | rtb-02454460ac9abbbe6 | subnet-082a0d459255e                                                                                           | (H)               | No                | vpc-01dd                                | 8f16dd9   |
| Your VPCs                          | VPC-BN-PubRT                          | rtb-09061661968136049 | subnet-06a9f91528b02                                                                                           | 171               | No                | vpc-01dd                                | 8f16dd9   |
| Subnets                            | 4                                     |                       |                                                                                                                |                   |                   |                                         |           |
| Route tables                       | Routes (2)                            |                       |                                                                                                                |                   |                   | Edit routes                             |           |
| Egress-only internet<br>gateways   | Q, Filter routes                      |                       |                                                                                                                | Both              | • <               | 1 > ©                                   |           |
| arrier gateways<br>HCP Option Sets | Destination                           | ⊽ Target              | ত Stat                                                                                                         | tus v P           | ropagated         | \$                                      | 6         |
| Elastic IPs                        | 0.0.0/0                               | nat-0c26f0b041bd9c00  |                                                                                                                | ictive N          | ło                |                                         |           |
| Managed prefix lists               | 192.168.0.0/16                        | local                 | ØA                                                                                                             | lctive N          | lo                |                                         | 0.0       |

13. Pinging google.com from instance on Private Subnet



### **VPC Peering:**

### 1. Create two VPCs, VPC-A and VPC-B

| Services Q Sea       | rch for serv | ices, features, blogs, docs, and more |   | [Alt+S]               |             |   | Ð Þ           | 0    | Tokyo 🔻 | bharga | viAWS |
|----------------------|--------------|---------------------------------------|---|-----------------------|-------------|---|---------------|------|---------|--------|-------|
| New VPC Experience X | Your         | VPCs (3) Info                         |   |                       |             |   | C Action      | 15 🖤 | Create  | e VPC  | (     |
| /PC dashboard        | Q, F         | Filter VPCs                           |   |                       |             |   |               |      | < 1 )   | 0      |       |
| C2 Global View 🖸 🗤   |              | Name                                  | V | VPC ID 🗢              | State       | V | IPv4 CIDR     | ⊽    | IPv6 CI | DR     |       |
| ilter by VPC:        | 103          | VPC-A-BhargaviNukala                  |   | vpc-0b52cb14c536743fb | ⊘ Available | 5 | 10.100.0.0/16 |      |         |        |       |
| Select a VPC 🔻       | 0            | (Te)                                  |   | vpc-04973299863a13d48 | ⊘ Available |   | 172.31.0.0/16 |      |         |        |       |
| rtual private cloud  |              | VPC-B-BhargaviNukala                  |   | vpc-056b8e1f9c64ddf66 | ⊘ Available | 1 | 10.200.0.0/16 |      | 127     |        |       |
| our VPCs             | + 11         |                                       |   |                       |             |   |               |      |         |        | •     |
| ubnets               |              |                                       |   |                       |             |   |               |      |         |        |       |
| oute tables          |              |                                       |   |                       |             |   |               |      |         |        |       |
| ternet gateways      |              |                                       |   |                       |             |   |               |      |         |        |       |
| gress-only internet  |              |                                       |   |                       |             |   |               |      | -       |        | -     |
| iteways              | Select       | - VPC -boue                           |   |                       |             |   |               |      |         |        |       |
| infer gateways       | Jereer       | a vrc above                           |   |                       |             |   |               |      |         |        |       |
| HCP Option Sets      |              |                                       |   |                       |             |   |               |      |         |        |       |
| astic IPs            |              |                                       |   |                       |             |   |               |      |         |        |       |
| anaged prefix lists  |              |                                       |   |                       |             |   |               |      |         |        |       |
| ndpoints             |              |                                       |   |                       |             |   |               |      |         |        |       |
|                      |              |                                       |   |                       |             |   |               |      |         |        |       |

2. Create two public subnets with ranges (10.100.0.0/24) & (10.100.2.0/24) and one private

### subnet with range (10.100.1.0/24) in **VPC-A** Create one private subnet (10.200.1.0/24) in **VPC-B**

| Services Q Sea                 | rch for servi | ices, features, blogs, | docs, an | d more [Alt:             | 5]            |             | Ð                     | \$ (      | ⑦ Tokyo ▼      | bhargaviAW |
|--------------------------------|---------------|------------------------|----------|--------------------------|---------------|-------------|-----------------------|-----------|----------------|------------|
| New VPC Experience X           | Subr          | nets (7) Info          |          |                          |               |             | G                     | Actions 🔻 | Create sub     | net        |
| /PC databoard                  | Q             | Filter submets         |          |                          |               |             |                       |           | < 1 >          | ۲          |
| C2 Global View 🗹 new           |               | Name                   | v        | Subnet ID                | v             | State 👳     | VPC                   | v         | IPv4 CIDR      | *          |
|                                |               | VPC-B-PrvSN1           |          | subnet-0c228749ff086b059 |               | 🕗 Available | vpc-056b8e1f9c64ddf66 | VPC       | 10.200.1.0/24  |            |
| Select a VPC 🔹                 |               | VPC-A-PubSN1           |          | subnet-08ec9029cde3e4798 |               | O Available | vpc-0b52cb14c536743fb | VP        | 10.100.0.0/24  |            |
| 'irtual private cloud          |               | -                      |          | subnet-0b9ff0cb9033b9270 |               | O Available | vpc-04973299863a13d4  | 8         | 172.31.32.0/20 |            |
| our VPCs                       |               | VPC-A-PubSN2           |          | subnet-04c3ea0a1214f46d9 |               | O Available | vpc-0b52cb14c536743fb | VP        | 10.100.2.0/24  | 100        |
| ubnets                         |               | VPC-A-PrvSN1           |          | subnet-0369203ba8c403864 |               | O Available | vpc-0b52cb14c536743fb | VP        | 10.100.1.0/24  |            |
| oute tables                    |               |                        |          |                          |               | Accellate . | 04072300002-17-14     | 9         | 122 21 0 0 00  | • *        |
| nternet gateways               |               |                        |          |                          | $\rightarrow$ |             |                       |           |                |            |
| gress-only internet<br>ateways | Select        | a subnet               |          |                          |               |             |                       |           |                |            |
| arrier gateways                |               |                        |          |                          |               |             |                       |           |                |            |
| HCP Option Sets                |               |                        |          |                          |               |             |                       |           |                |            |
| lastic IPs                     |               |                        |          |                          |               |             |                       |           |                |            |
| 2020                           |               |                        |          |                          |               |             |                       |           |                |            |
| lanaged prefix lists           |               |                        |          |                          |               |             |                       |           |                |            |

3. Create a private RouteTable for private subnet and public route table for 2 public subnets in **VPC-A** 

Create a private route table for private subnet in **VPC-B** Associate the concerned subnets with the route tables.

| New VPC Experience X | Route t     |                 |   |                       |    |                          |                   |         |                |        |
|----------------------|-------------|-----------------|---|-----------------------|----|--------------------------|-------------------|---------|----------------|--------|
|                      |             | ables (6) info  |   |                       |    |                          | C Actions         | ▼ Creat | te route table |        |
|                      | Q, Filte    | er route tables |   |                       |    |                          |                   | <       | 1 >            | 0      |
| 22 Global View 🔀 New |             | Name            | V | Route table ID        |    | Explicit subnet associat | Edge associations | Main ♥  | VPC            |        |
| Iter by VPC;         | 0 -         |                 |   | rtb-079d4cda1c6f0ffc9 |    | 14 C                     | - A               | Yes     | vpc-04973      | 2998   |
| Select a VPC 🛛 👻     |             |                 |   | rtb-0357b01c3ab4714e0 | 2  | ÷                        | -                 | Yes     | vpc-0b52cl     | b14c   |
|                      | U V         | /PC-B-PrvRT     |   | rtb-09368e65e50f33914 | 1  | subnet-0c228749ff086b    | -                 | No      | vpc-056b8      | e 1f9  |
| irtual private cloud |             | -               |   | rtb-044b1aSe3dc7af69c |    | -                        | -                 | Yes     | vpc-056b8      | e1f9   |
| our VPCs             | 0 V         | /PC-A-PubRT     |   | rtb-053fb6b47e9d38ed1 | i. | 2 subnets                | 0.0               | No      | vpc-0b52cl     | 014c   |
| ubnets               | . U. V      | /PC-A-PrvRT     |   | rtb-064129a655d9f7c7b | 1  | subnet-0369203ba8c40     | 2                 | No      | vpc-0b52cl     | 014c 🗸 |
| pute tables          | (           |                 |   |                       |    |                          |                   |         |                | •      |
| temet gateways       |             |                 |   |                       |    | =                        |                   |         |                |        |
| gress-only internet  | Select a ro | oute table      |   |                       |    |                          |                   |         |                |        |
| ateways              |             |                 |   |                       |    |                          |                   |         |                |        |
| arrier gateways      |             |                 |   |                       |    |                          |                   |         |                |        |
| HCP Option Sets      |             |                 |   |                       |    |                          |                   |         |                |        |
| astic IPs            |             |                 |   |                       |    |                          |                   |         |                |        |
| anaged prefix lists  |             |                 |   |                       |    |                          |                   |         |                |        |
| ndpoints             |             |                 |   |                       |    |                          |                   |         |                |        |

4. Create an Internet Gateway and associate public Route Table of **VPC-A** to that Internet Gateway.

|                                                                                                                                                                                            |                         |                       |                       |      |            |         | 1000         |             |           |         |        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|-----------------------|------|------------|---------|--------------|-------------|-----------|---------|--------|
| Services Q Sea                                                                                                                                                                             | rch for services, featu | ires, blogs, docs, an | f more [Al            | t+S] |            |         | Ð 4          | Ø           | Tokyo 1   | r bharg | gaviAV |
| New VPC Experience X                                                                                                                                                                       | Internet gal            | teways (2) Info       |                       |      |            | C A     | ctions 🔻     | Create in   | iternet g | ateway  |        |
| /PC dashboard                                                                                                                                                                              | Q Filter inter          | net gateways          |                       |      |            |         |              |             | < 1       | > ©     |        |
| EC2 Global View 🔀 New                                                                                                                                                                      | Name                    | v                     | Internet gateway ID   | V    | State      |         |              |             | ⊽         | Owner   |        |
| ilter by VPC:                                                                                                                                                                              | 0 -                     |                       | igw-01c77da80e3949ca5 |      | ⊘ Attached | vpc-049 | 73299863a13d | 48          |           | 054033  | 203    |
| Select a VPC 🛛 🔻                                                                                                                                                                           | VPC-A-                  | IGW                   | lgw-01d230362dc4c632f |      | ⊘ Attached | vpc-0b5 | 2cb14c536743 | fb   VPC-A- | Bha       | 054032  | 203    |
| irtual private cloud                                                                                                                                                                       | 4                       |                       |                       |      |            |         |              |             |           |         |        |
| Irtual private cloud<br>our VPCs<br>ubnets<br>oute tables                                                                                                                                  | 4                       |                       |                       |      |            |         |              |             |           |         |        |
| irtual private cloud<br>our VPCs<br>ubnets<br>oute tables<br>iternet gateways                                                                                                              |                         |                       |                       |      |            |         |              |             |           |         |        |
| rtual private cloud<br>our VPCs<br>ubnets<br>oute tables<br>ternet gateways<br>gress-only internet<br>ateways                                                                              | 4 Select an intern      | et gateway above      |                       | _    |            |         |              |             |           |         |        |
| rtual private cloud<br>our VPCs<br>oboets<br>oute tables<br>ternet gateways<br>press-only Internet<br>nteways<br>onler gateways                                                            | 4 Select an intern      | et gateway above      |                       | -    |            |         |              |             |           |         |        |
| rtual private cloud<br>our VPCs<br>ubnets<br>oute tables<br>ternet gateways<br>press-only Internet<br>teways<br>mier gateways<br>HCP Option Sets                                           | 4 Select an intern      | et gateway above      |                       | _    |            |         |              |             |           |         |        |
| rtual private cloud<br>pur VPCs<br>ubnets<br>bute tables<br>ternet gateways<br>gress-only internet<br>ateways<br>arrier gateways<br>HCP Option Sets<br>astic IPs                           | 4 Select an intern      | et gateway above      |                       | -    |            |         |              |             |           |         |        |
| irtual private cloud<br>our VPCs<br>ubnets<br>oute tables<br>iternet gateways<br>gress-only internet<br>ateways<br>amier gateways<br>HCP Option Sets<br>lastic IPs<br>lanaged prefix lists | 4 Select an intern      | et gateway above      |                       | -    |            |         |              |             |           |         |        |

| ne v     | Route table ID 🗢           |                                                                                                                                                                                                     | 0<br>0                                                                                                                                                                                                                                                          | Actions 🔻                                                                                                               | Creato                                                                                                                                                                                                                                                                                  | e route f                                                                                                                                                                                                               | table                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ne v     | Route table ID   ▽         |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                 |                                                                                                                         | <                                                                                                                                                                                                                                                                                       | 1 >                                                                                                                                                                                                                     | a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ne 🗸     | Route table ID 🛛 🗸         |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                 |                                                                                                                         |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                         | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          |                            | Explicit subnet associat                                                                                                                                                                            | Edge associat                                                                                                                                                                                                                                                   | ions Main                                                                                                               | ¥                                                                                                                                                                                                                                                                                       | VPC                                                                                                                                                                                                                     | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | rtb-079d4cda1c6f0ffc9      | 12 C                                                                                                                                                                                                | 1.12                                                                                                                                                                                                                                                            | Yes                                                                                                                     |                                                                                                                                                                                                                                                                                         | vpc-04                                                                                                                                                                                                                  | 9732998                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|          | rtb-0357b01c3ab4714e0      | 2                                                                                                                                                                                                   | -                                                                                                                                                                                                                                                               | Yes                                                                                                                     |                                                                                                                                                                                                                                                                                         | vpc-0b                                                                                                                                                                                                                  | 52cb14c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| -B-PrvRT | rtb-09368e65e50f33914      | subnet-0c228749ff086b                                                                                                                                                                               |                                                                                                                                                                                                                                                                 | No                                                                                                                      |                                                                                                                                                                                                                                                                                         | vpc-05                                                                                                                                                                                                                  | 6b8e1f9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|          | rtb-044b1a5e3dc7af69c      | -                                                                                                                                                                                                   | <i>2</i>                                                                                                                                                                                                                                                        | Yes                                                                                                                     |                                                                                                                                                                                                                                                                                         | vpc-05                                                                                                                                                                                                                  | 6b8e1f9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| -A-PubRT | rtb-053fb6b47e9d38ed1      | 2 subnets                                                                                                                                                                                           | -                                                                                                                                                                                                                                                               | No                                                                                                                      |                                                                                                                                                                                                                                                                                         | vpc-0b                                                                                                                                                                                                                  | 52cb14c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| A DUDT   |                            |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                 | Ма                                                                                                                      |                                                                                                                                                                                                                                                                                         | tere Ab                                                                                                                                                                                                                 | ESchilde                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|          |                            |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                 |                                                                                                                         |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| routes   |                            |                                                                                                                                                                                                     | Bo                                                                                                                                                                                                                                                              | th 💌                                                                                                                    | < 1                                                                                                                                                                                                                                                                                     | >                                                                                                                                                                                                                       | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| on 🔻     | Target                     | ⊽                                                                                                                                                                                                   | Status 🗸                                                                                                                                                                                                                                                        | Propagated                                                                                                              | i i                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                         | ▽                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|          | igw-01d230362dc4c632f      |                                                                                                                                                                                                     | @ Active                                                                                                                                                                                                                                                        | No                                                                                                                      |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 0/16     | local                      |                                                                                                                                                                                                     | 0                                                                                                                                                                                                                                                               | 10000                                                                                                                   |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|          | -A-PubRT -A-PubRT r routes | rtb-0357b01c3b04714e0<br>-B-PrvRT rtb-09368e65e50f33914<br>rtb-044b1a5e3dc7af69c<br>-A-PubRT rtb-053fb6b47e9d38ed1<br>-A boott concessionTi-7tb<br>r routes<br>on ▼ Target<br>igw-01d230362dr4c632f | rtb-0357b01c3ab4714e0 -<br>-B-PrvRT rtb-09368e65e50f33914 subnet-0c228749ff086b<br>rtb-044b1a5e3dc7af69c -<br>-A-PubRT rtb-053fb6b47e9d38ed1 2_subnets<br>-A_PubRT rtb-053fb6b47e9d38ed1 2_subnets<br>-A_PubRT rtb-054530_6656d0f1_7b, ruboxt_0760307b;0640<br> | rt0-0357b01c3ab4714e0 -  -  -<br>-B-PrvRT rtb-09368e65e50f33914 subnet-0c228749ff086b<br>rtb-044b1a5e3dc7af69c -  -<br> | -B-PrvRT     rtb-09368e65e50f33914     subnet-0c228749ff086b     -     No       rtb-044b1a5e3dc7af69c     -     -     Yes       CA-PubRT     rtb-053fb6b47e9d38ed1     2 subnets     -     No       ** Doc0T     oth 0c4120c6E540f7c7b     outwort 0750207b-9240     Mo       ** routes | -B-PrvRT       rtb-09368e65e50f33914       subnet-0c228749ff086b       -       No         -rb-044b1a5e3dc7af69c       -       -       Yes         -A-PubRT       rtb-053fb6b47e9d38ed1       2 subnets       -       No | -a     -     -     -     -     Yes     vpc-05       -B-PrvRT     rtb-09368e65e50f33914     subnet-0c228749ff086b     -     No     vpc-05       rtb-044b1a5e3dc7af69c     -     -     -     Yes     vpc-05       CA-PubRT     rtb-053fb6b47e9d38ed1     2 subnets     -     No     vpc-05       CA-PubRT     rtb-053fb6b47e9d38ed1     2 subnets     -     No     vpc-05       CA-PubRT     rtb-054f30a6E5e/0f1c7tb     cubnets     -     No     vpc-05       Abs:/DT     rtb-054f30a6E5e/0f1c7tb     cubnets     -     No     vpc-05       Abs:/DT     rtb-054f30a6E5e/0f1c7tb     cubnets     -     No     vpc-05       rest     cubnets     -     No     vpc-05     No       rest     cubnets     -     No     vpc-05     No       rest     cubnets     -     No     vpc-05     No |

5. Create a EC2 machine in each public subnet & private subnet should have 2 EC2 instance for **VPC-A** 

create one EC2 instance in private subnetof VPC-B

| V5 III Services Q Sea | rch for serv | ices, features, blogs, docs, ai | nd more    | [Alt+S]             |                |          |               | ۶.     | \$ Ø            | Tok    | yo 🔻 🛛 bha  | irgaviA\ |
|-----------------------|--------------|---------------------------------|------------|---------------------|----------------|----------|---------------|--------|-----------------|--------|-------------|----------|
| New EC2 Experience X  | Insta        | ances (5) Info                  |            | C                   | Connect        | Instance | state 🔻 🛛 A   | ctions | : 🔻 Laun        | ch ins | tances      | •        |
| rea p                 | QI           | Find instance by attribute or   | tag (case- | sensitive)          |                |          |               |        |                 |        | < 1 >       | ٢        |
| EC2 Global View       | Insta        | ance state = running X          | 0          | lear filters        |                |          |               |        |                 |        |             |          |
| Events                |              | Name                            | 4          | Instance ID         | Instance state |          | Instance type | ⊽      | Status check    | - I    | Alarm stati | us 🛛     |
| Tags                  |              | VPC-A-PrvEC1                    |            | i-0343418171076a547 | @ Running      | QQ       | t2.micro      |        | Ø 2/2 checks pi | assed  | No alarms   | +        |
| imits                 |              | VPC-A-PrvEC2                    |            | i-Of80edd3b86c4dab3 |                | QD       | t2.micro      |        | Ø 2/2 checks p  | assed  | No alarms   | +        |
| istances              |              | VPC-A-PubEC1                    |            | i-01c236f4aa1ed18a6 | O Running      | QQ       | t2.micro      |        | Ø 2/2 checks p  | assed  | No alarms   | +        |
| Istances New          |              | VPC-A-PubEC2                    |            | i-05ca6529e651371c9 | O Running      | ଭ୍ର      | t2.micro      |        | Ø 2/2 checks pi | assed  | No alarms   | +        |
| istance Types         |              | VPC-B-PrvEC1                    |            | i-Oc1cce920aa6258e9 | O Running      | QQ       | t2.micro      |        | Ø 2/2 checks p  | assed  | No alarms   | +        |
| aunch Templates       | 4            |                                 |            |                     |                |          |               |        |                 |        |             |          |
| pot Requests          | Sele         | ct an instance                  |            |                     | =              |          |               |        |                 |        | 6           | ×        |
| avings Plans          |              |                                 |            |                     |                |          |               |        |                 |        |             |          |
| eserved Instances New |              |                                 |            |                     |                |          |               |        |                 |        |             |          |
| edicated Hosts        |              |                                 |            |                     |                |          |               |        |                 |        |             |          |
| apacity Reservations  |              |                                 |            |                     |                |          |               |        |                 |        |             |          |
| lages                 |              |                                 |            |                     |                |          |               |        |                 |        |             |          |
|                       |              |                                 |            |                     |                |          |               |        |                 |        |             |          |

### 6. Connect to private EC2 instance of VPC-A from public EC2 instance of VPC-A



7. From this private instance of VPC-A, try to ping to private instance of VPC-B. It will fail as there is no internet connection to VPC-B



8. So for communication between two private instances of VPC-A and VPC-B, create a peer connection.

| → G ■ ap-northeast-            | 1.console.aws.amazon.com/vpc/home?region=ap-northeast-1#PeeringConnections: |                            |                           |
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| New VPC Experience X           | Peering connections (1) Info                                                | C Actions V G              | reate peering connection  |
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| EC2 Global View 🗹 🗤            | Name V Peering connection ID V Status                                       | ✓ Requester VPC            | Accepter VPC              |
| Iter by VPC:                   | O VPC-A-B-Peering pcx-0771a92aa783e26a0 O Pending acceptance                | vpc-0b52cb14c536743fb / VP | vpc-056b8e1f9c64ddf66 / V |
| Select a VPC 🔹 🔻               | 4                                                                           |                            | ,                         |
| ubnets<br>oute tables          |                                                                             |                            |                           |
| nternet gateways               | =                                                                           |                            |                           |
| gress-only internet<br>ateways | Select a peering connection above                                           |                            |                           |
| arrier gateways                |                                                                             |                            |                           |
| HCP Option Sets                |                                                                             |                            |                           |
| astic IPs                      |                                                                             |                            |                           |
| lanaged prefix lists           |                                                                             |                            |                           |
| adapietr                       |                                                                             |                            |                           |
| anapanits                      |                                                                             |                            |                           |

### 9. Accept the peering connection request



10. Update the private route tables of VPC-A and VPC-B with the newly created peering connection.

| Destination                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Target                                                                                                                                                                                                                 | Status                                                                                                                                                               | Propagated                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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11. Now if we ping from private EC2 instance of VPC-A to private EC2 instance of VPC-B, ping will be successful



12. To connect to private EC2 instance of VPC-B, we need to copy the .pem file from public EC2 instance of VPC-A to private EC2 instance of VPC-A and then ssh to private EC2 instance of VPC-B

| and a            | Services                  | Q Search for services, features, blogs, docs, and more                                                               | [Alt+S]                         | Σ      | ) A  | 0    | Tokyo 🔻 | bhargaviAWS 🔻 |
|------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------|--------|------|------|---------|---------------|
| - 10.2<br>packet | 00.1.184 p:<br>s transmit | ing statistics<br>ted, 0 received, 100% packet loss, time 3072ms                                                     |                                 |        |      |      |         |               |
| oot@ip<br>NG 10. | -10-100-1-:<br>200.1.184  | 37 ec2-user)‡ ping 10.200.1.184<br>(10.200.1.184) 56(84) bytes of data.                                              |                                 |        |      |      |         |               |
| bytes            | from 10.20                | 00.1.184: icmp_seq=1 ttl=255 time=2.07 ms                                                                            |                                 |        |      |      |         |               |
| 1 bytes          | from 10.20                | 00.1.184: icmp_sec=3 ttl=255 time=1.99 ms                                                                            |                                 |        |      |      |         |               |
| 4 bytes          | from 10.20                | 00.1.184: icmp_seq=4 ttl=255 time=1.91 ms                                                                            |                                 |        |      |      |         |               |
| - 10.2           | 00.1.184 p                | ing statistics                                                                                                       |                                 |        |      |      |         |               |
| packet           | a transmitt               | ted, 4 received, 0% packet loss, time 3004ms                                                                         |                                 |        |      |      |         |               |
| rootein          | -10-100-1-3               | 27 ec2-user1# exit                                                                                                   |                                 |        |      |      |         |               |
| <b>kit</b>       |                           |                                                                                                                      |                                 |        |      |      |         |               |
| ec2-use          | r@ip-10-100               | 0-1-37 ~]\$ exit                                                                                                     |                                 |        |      |      |         |               |
| onnecti          | on to 10.10               | 00.1.37 closed.                                                                                                      |                                 |        |      |      |         |               |
| root@ip          | -10-100-0-0               | 69 ec2-user]‡ ls -ltr                                                                                                |                                 |        |      |      |         |               |
| otal 4           |                           |                                                                                                                      |                                 |        |      |      |         |               |
| rootein          | -10-100-0-4               | 69 sc2-user 1674 Oct 25 11:48 pemtest.pem<br>69 sc2-user]‡ scp -i pemtest.pem -r pemtest.pem                         | n ec2-user010.100.1.37          |        |      |      |         |               |
| rooteip          | -10-100-0-                | 69 ec2-user] # scp -i pemtest.pem -r pemtest.pem                                                                     | m ec2-user@10.100.1.37:/home/ec | 2-user |      |      |         |               |
| amtest.          | pem                       | en mener - andre en provins - render andre indention - render andre indention<br>Alle for des festions de statistics |                                 |        | 100% | 1674 | 1.1MB/s | 00:00         |
| cooteip          | -10-100-0-0               | 69 ec2-user]∓                                                                                                        |                                 |        |      |      |         |               |
| i-01c2           | 36f4aa1ed1                | 18a6 (VPC-A-PubEC1)                                                                                                  |                                 |        |      |      |         | ×             |
| SAMAGE           | . 17 371 117 1            | 107 Delicate/Dc: 10 100 0 60                                                                                         |                                 |        |      |      |         |               |

13. Now when we try to connect to private EC2 instance of VPC-B from private EC2 instance of VPC-A, both ping and ssh will succeed. We can also observe that .pem file is available in private EC2 instance of VPC-A



So peering connection is done and we are able to connect the private EC2 instances of both VPC-A and VPC-B.

# **S3**:

Creation of a bucket with name "bhargavi-nukala"



### Create a directory "images" in bucket

| Services Q Search                                                                                            | [Alt+S]                                                                                                                                                                                                                                                 | \$ @                                  | Global 🔻           | bhargaviAWS |
|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------|-------------|
| Amazon S3 ×                                                                                                  | Amazon 53 🗲 Buckets 📏 bhargavi-nukala                                                                                                                                                                                                                   |                                       |                    | 1           |
| Buckets                                                                                                      | bhargavi-nukala 📷                                                                                                                                                                                                                                       |                                       |                    |             |
| Access Points<br>Object Lambda Access Points<br>Multi-Region Access Points                                   | Objects Properties Permissions Metrics Management Access Points                                                                                                                                                                                         |                                       |                    |             |
| Batch Operations<br>Access analyzer for SB                                                                   | Objects (1)                                                                                                                                                                                                                                             | is your bucket. For others to         |                    |             |
|                                                                                                              | objects are the following the first stores in Amazon 35. For can be available in Shinazon 35. The can be available in Shinazon 35.                                                                                                                      | anyour bucket for buners to           | Decess your        |             |
| Block Public Access settings for<br>his account                                                              | objects, you'll need to explicitly grant them permissions. Learn more 같<br>C                                                                                                                                                                            | e Actions V                           | 54455 <b>J</b> 951 |             |
| Nock Public Access settings for<br>his account<br>torage Lens                                                | Objects, you'll need to explicitly grant them permissions. Learn more 2       C     C copy S3 URI       C create folder                                                                                                                                 | e Actions V                           |                    |             |
| lock Public Access settings for<br>nis account<br>torage Lens<br>ashboards                                   | Objects, you'll need to explicitly grant them permissions. Learn more D         C       C copy S3 URI         Create folder       Upload         Q. Find objects by prefix       Show versions                                                          | Actions 🔻                             | 1 >                | ۲           |
| Block Public Access settings for<br>this account<br>Storage Lens<br>Dashboards<br>W/S Organizations settings | Objects, you'll need to explicitly grant them permissions. Learn more C         C       C copy S3 URI         Create folder       Upload         Q, Find objects by prefix       Show versions         Name       Type       Last modified       v Size | Actions     Actions     Storage class | 1 >                | •           |

Upload some images into "images" folder

|                      | vices Q Search                                                                                                                                            |                           |                                        |                     | [Alt+S]                                                                                                                                                                                                                            |                                                                   |                                  | \$                                               | Global •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | bha                      |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Amazor               | 1 S3 📏 Buckets 📏 bhargavi-nu                                                                                                                              | ikala > ima               | ges/                                   |                     |                                                                                                                                                                                                                                    |                                                                   |                                  |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |
| ima                  | ges/                                                                                                                                                      |                           |                                        |                     |                                                                                                                                                                                                                                    |                                                                   |                                  |                                                  | ٥                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Copy S3 I                |
| Obje                 | ects Properties                                                                                                                                           |                           |                                        |                     |                                                                                                                                                                                                                                    |                                                                   |                                  |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |
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| Oh                   | ierts (4)                                                                                                                                                 |                           |                                        |                     |                                                                                                                                                                                                                                    |                                                                   |                                  |                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |
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Setting a bucket policy to make images public and accessible on web Generating bucket policy using Policy Generator

| School of Continu | innuing and Dist. 🗙 🙆 JNTUH SEDE Doline Class for ( 🗙 📕 bhargevi-nukala - S3 bucket 🗴 📀 AWS Policy Generat                                                                                           | or X                      | M Inbox (5) - bhargaviaqui                                | 04@ )          | × [-   | +) |    | <u> </u> | -    | 42. |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------|----------------|--------|----|----|----------|------|-----|
| e - c .           | weppinkgenssamazonaws.com/poikggen.ntmi     webservices                                                                                                                                              |                           |                                                           | (3             | ¥      |    | 77 | =1       | LI I |     |
|                   | AWS Policy Generator                                                                                                                                                                                 |                           |                                                           |                |        |    |    |          |      |     |
|                   | The AWS Policy Generator is a tool that enables you to create policies that control access to Ama<br>For more information about creating policies, see key concepts in Using AWS Identity and Access | azon Web Se<br>s Manageme | arvices (AWS) products and<br>ent. Here are sample polici | l resou<br>as. | irces. |    |    |          |      |     |
|                   | Step 1: Select Policy Type                                                                                                                                                                           |                           |                                                           |                |        |    |    |          |      |     |
|                   | A Policy is a container for permissions. The different types of policies you can create are an IAM<br>VPC Endpoint Policy, and an SQS Queue Policy.                                                  | Policy, an Si             | 3 Bucket Policy, an SNS To                                | pic Poli       | icy, a |    |    |          |      |     |
|                   | Select Type of Policy S3 Bucket Policy Y                                                                                                                                                             |                           |                                                           |                |        |    |    |          |      |     |
|                   | Step 2: Add Statement(s)                                                                                                                                                                             |                           |                                                           |                |        |    |    |          |      |     |
|                   | A statement is the formal description of a single permission. See a description of elements that                                                                                                     | you can use               | in statements.                                            |                |        |    |    |          |      |     |
|                   | Effect 📵 Allow 📿 Deny                                                                                                                                                                                |                           |                                                           |                |        |    |    |          |      |     |
|                   | Principal [*                                                                                                                                                                                         |                           |                                                           |                |        |    |    |          |      |     |
|                   | AWS Service Amazon 83                                                                                                                                                                                | ~                         | All Services ('*')                                        |                |        |    |    |          |      |     |
|                   | Actions 1 Action(s) Selected + All Action(s) Selected                                                                                                                                                | tions ('*')               |                                                           |                |        |    |    |          |      |     |
|                   | Amazon Resource Name (ARN) [am/awa/a3///bhargavi-nuka]                                                                                                                                               |                           |                                                           |                |        |    |    |          |      |     |
|                   | ARM should follow the following formet: arm:axssalin:\${BucketName<br>Use a comma to separate multiple values.                                                                                       | }/5{KeyMame}              |                                                           |                |        |    |    |          |      |     |
|                   | Add Conditions (Optional)                                                                                                                                                                            |                           |                                                           |                |        |    |    |          |      |     |

After ARN name of bucket, we should add "/\*" to make all objects of the bucket public. Action should be selected as "GetObject"

Paste the generated JSON in bucket policy

| Servio                                                                              | ces Q. Search                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | [Alt+S]                                                            | Ą ② Globel ▼                                                                                         | bhargav |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------|
| Edit                                                                                | bucket policy Info                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    |                                                                                                      |         |
| Buck                                                                                | ket nolicy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                    |                                                                                                      |         |
| The bu                                                                              | icket policy, written in JSON, provides access to the objects stored in th                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | bucket. Bucket policies don't apply to objects owned by other acco | iunts. Learn more 🖸                                                                                  |         |
| Po                                                                                  | licy examples 🖸 Policy generator 🖸                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    |                                                                                                      |         |
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Now access a uploaded image on the web



Use Object URL of the image to access the image on web.

S3 Versioning: Upload index.html into the bucket

|    | Services                                         | Q Search                                                                             |                        |                                                  | [Alt+5]                                                                                |                                                       |                         |                                                     | ÷                 | @ Gld                                                 |          | bharga     |
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| A  | .mazon S3 🔇                                      | Buckets > bharga                                                                     | avi-nukala > htm       | V                                                |                                                                                        |                                                       |                         |                                                     |                   | -                                                     |          |            |
| h  | ntml/                                            |                                                                                      |                        |                                                  |                                                                                        |                                                       |                         |                                                     |                   | L                                                     | C Co     | ipy S3 UR  |
|    | Objects                                          | Properties                                                                           |                        |                                                  |                                                                                        |                                                       |                         |                                                     |                   |                                                       |          |            |
| 13 | objects                                          | Toperces                                                                             |                        |                                                  |                                                                                        |                                                       |                         |                                                     |                   |                                                       |          |            |
|    |                                                  | 443                                                                                  |                        |                                                  |                                                                                        |                                                       |                         |                                                     |                   |                                                       |          |            |
|    | Objects                                          | (1)                                                                                  |                        |                                                  |                                                                                        |                                                       |                         |                                                     |                   |                                                       |          |            |
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|    | Objects are t                                    | the fundamental entities (                                                           | stored in Amazon S3. V | lou can use Amazon S3 in                         | ventory 🚺 to get a list o                                                              | of all objects in you                                 | ir bucket. For others I | to access your objects, y                           | ou'll need to     | explicitly grant                                      | them pe  | rmissions. |
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Change the content of the index.html and upload a new one. We can check the versions by enabling S3 versioning.

|            |                                                                                                                                                          |                           | [AUCED]                                                                                                                                                |                                                                                                                      |                                                  | \$ 0                                                | Global 🔻                                 | bharga                                 |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------|------------------------------------------|----------------------------------------|
| Amazo      | m 53 💙 Buckets 💙 bha                                                                                                                                     | rgavi-nukala              | > html/                                                                                                                                                |                                                                                                                      |                                                  |                                                     |                                          |                                        |
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| Ob         | jects Properties                                                                                                                                         |                           |                                                                                                                                                        |                                                                                                                      |                                                  |                                                     |                                          |                                        |
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Click on "Show Versions" to see the previous versions of the index.html file.

### **Bucket Replication:**

Create another bucket that is a Replica of bucket "bhargavi-nukala" in another region. Enable "bucket versioning" for replica bucket.

| Services Q Search                                                        |                                                               | [Alt+5]                                      |                                            | 4 C                                                             | ) Global 🔻 bhargaviAWS   |
|--------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------|--------------------------------------------|-----------------------------------------------------------------|--------------------------|
| Amazon S3 ×                                                              | Amazon S3 > Buckets                                           |                                              |                                            |                                                                 |                          |
| Buckets<br>Access Points<br>Object Lambda Access Points                  | Account snapshot     Storage lens provides visibility into    | storage usage and activity trends. Learn r   | more 🖸                                     | View Storage                                                    | Lens dashboard           |
| Multi-Region Access Points<br>Batch Operations<br>Access analyzer for S3 | Buckets (2) Info<br>Buckets are containers for data stored in | n S3. Learn more 🗹                           | Copy ARN                                   | Empty Delete                                                    | Create bucket            |
|                                                                          | Q Find buckets by name                                        |                                              |                                            |                                                                 | < 1 > ©                  |
| block Public Access settings for<br>this account                         | Name  O bhargavi-nukala                                       | AWS Region<br>Asia Pacific (Tokyo) ap-northe |                                            | <ul> <li>Creation date</li> <li>November 21, 2022, 1</li> </ul> | ▼<br>1:02:34 (UTC+05:30) |
| Storage Lens<br>Dashboards<br>AWS Ornanizations settions                 | bhargavi-nukala-replica                                       | Asia Pacific (Sydney) ap-south               | Bucket and<br>east-2 objects not<br>public | November 21, 2022, 1                                            | 7:26:21 (UTC+05:30)      |
| Feature spotlight 3                                                      |                                                               |                                              |                                            |                                                                 |                          |

Create a Replication rule on the Source bucket.



Create a new IAM role during creation of replication rule.

Now upload a file in Source bucket and it should be replicated in Replica bucket. File uploaded in Source bucket.



File replicated in Replica bucket.



Tulips.jpg is now seen in bhargavi-nukala-replica bucket.



| Edit View Estabase Ipola Scripting | Help               | -chion                                          | - 0 - X                                                                 |                                        |
|------------------------------------|--------------------|-------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------|
|                                    | Connection Name :  | AWSRDS                                          | Type a name for the connection                                          | ch                                     |
|                                    | Connection Method: | Standard (TCP/IP)                               | <ul> <li>Method to use to connect to the RDBMS</li> </ul>               |                                        |
|                                    | Hostname:          | nSn.ap-northeast-1.rds.amazonaws.com Port: 3305 | Name or JP address of the server host - and TCP/CP port.                |                                        |
|                                    | Username:          | ropt                                            | Name of the user to connect with.                                       |                                        |
|                                    | Password:          | Store in Vault   Gear                           | The user's password. Will be requested later if it's<br>not set.        |                                        |
|                                    | Default Schema:    |                                                 | The schema to use as default schema, Leave<br>blank to select it later. | ums >                                  |
| MySQL Connection                   |                    |                                                 |                                                                         | <ul> <li>Filter connections</li> </ul> |
|                                    | Canfgure Server    | Management                                      | Test Connection Concel OK                                               | ļ                                      |

Create a database and use the database

| AWSRDS ×                                                                                                                                                                                                                                                                                                                                                                                                                   | on ten meter der                                                   |                   |                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Eile Edit View Query Databa                                                                                                                                                                                                                                                                                                                                                                                                | sse Server Ipols Scripting Help                                    |                   |                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    |                   | @                                                                                                                                              |
| Navigator                                                                                                                                                                                                                                                                                                                                                                                                                  | Guery 1 x                                                          |                   | SQL Additions                                                                                                                                  |
| MANAGEMENT<br>Server Status<br>Client Connections<br>Users and Privileges<br>Status and System Variables<br>A Data Export<br>Data Export<br>Status and System Variables<br>Status and System Variables<br>Status And System Variables<br>Statup / Shutdown<br>Startup / Shutdown<br>Startup / Shutdown<br>Startup / Shutdown<br>Startup / Shutdown<br>Startup / Shutdown<br>Startup / Shutdown<br>PERFORMANCE<br>Dashboard | <ul> <li>Create database College;</li> <li>use College;</li> </ul> |                   | Automatic context help is<br>disabled. Use the toolbart<br>manually get help for the<br>current caret position or to<br>toggle automatic help. |
| Performance Reports Performance Schema Setup                                                                                                                                                                                                                                                                                                                                                                               | Cutput                                                             |                   |                                                                                                                                                |
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|                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 18:46:07 create database College                                 | 1 row(s) affected | 0.234 sec                                                                                                                                      |
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Insert some rows into the Student table

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| N avig ator                                                                                                                                                                               | Query 1 x                                                              |                                                                                  | SQL Additions                                                                                                                            |
| MANAGEMENT  Server Status  Climt Connections  Users and Phylicges  Status and System Variables  Data Export  Data Export/testore  INSTANCE  Statup / Shutdown  Server Logs  Poptions File | <ul> <li>F f Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q</li></ul>             | k, ♥ Q, ¶ ₽                                                                      | Automatic context help i<br>disabled. Use the toolbar<br>manually get help for th<br>current caret position or<br>toggle automatic help. |
| PERFORMANCE<br>Dashboard<br>Performance Reports<br>Performance Schema Setup                                                                                                               | < m<br>Oxtput                                                          |                                                                                  | Context Help Snippets                                                                                                                    |
|                                                                                                                                                                                           | # Time Action                                                          | Message                                                                          | Duration / Fetch                                                                                                                         |
|                                                                                                                                                                                           | 1 18:46:07 create database College                                     | Trow(s) affected                                                                 | 0.234 sec                                                                                                                                |
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| Taformation                                                                                                                                                                               | 3 18:47:54 Show tables                                                 | D row(s) returned                                                                | 0.203 sec / 0.000 sec                                                                                                                    |
|                                                                                                                                                                                           | A 18:50:01 Create Table Student(StudentId int(20), FName Varchar(265), | Dept Varchar(255) 0 row(s) affected, 1 warning(s): 1681 integer display width is | deprecated and will be removed in 0.219 eec                                                                                              |
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Select rows from the Student table.



### **Amazon Aurora:**

Create an Amazon Aurora Database. Check that a Write instance is created along with Actual Database.

| Services Q Search    | [Alt+5]                                              | <u>5</u> 4 0   | Tokyo 🔻 bhargaviA  |
|----------------------|------------------------------------------------------|----------------|--------------------|
| mazon RDS X          | Successfully created database <u>database-1</u>      | View           | connection details |
| ashboard             | RDS > Databases                                      |                |                    |
| tabases              |                                                      |                |                    |
| iery Editor          | Databases C Group resources C Modify Actions V Res   | store from S3  | Create database    |
| rformance insights   |                                                      |                | 1.5                |
| apshots              | Q Filter by databases                                |                |                    |
| ports in Amazon 53   |                                                      |                | < 1 > ©            |
| tomated backups      |                                                      |                |                    |
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| oxies                | O 🕞 database-1 Regional cluster Aurora MySQL         | ap-northeast-1 | 1 instance         |
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| bnet groups          |                                                      |                |                    |
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# AZURE

Resource Group: Create a resource group to associate for all resources to be created in Azure



Create a Windows Virtual Machine under above created the ResourceGroup.

| Create a virtual machine - Micros 🗙                     | •                                                                                       | the state of the s |       | _     |                       |
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| ← → C 🗯 portal.azure.com                                | n/?qu <mark>ic</mark> kstart=true#create/Microsoft.VirtualMachine-ARM                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       | 단 순 ☆ | 🗑 🗯 🗊 🖬 🍏 :           |
| 🗉 Microsoft Azure 🛈 U                                   | pgrade P Search resources, services, and docs (G+/)                                     | E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | G 🖓 @ | • @ R | bhargavi.aqua04@gmail |
| Home > Virtual machines >                               |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |       |                       |
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| Select the subscription to manage de<br>your resources. | ployed resources and costs. Use resource groups like folders to organize and manage all |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |       |                       |
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| Instance details                                        |                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |       |                       |
| Virtual machine name * 🛈                                | Windows1-BhargaviNukala                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |       |                       |
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| Availability options 🛈                                  | No infrastructure redundancy required                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |       |                       |
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| Image * 🛞                                               | Windows Server 2022 Datacenter: Azure Edition - Gen2 (free services eligib              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |       |                       |
| VM architecture ①                                       | See all images   Conligure VM generation Arm54                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |       |                       |
| Review + create                                         | Previous Next : Disks >                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |       | R Give feedback       |

We should mention the username and password to connect to VM while creation only.

| 🛕 Create a virtual machine - Micros                           | ×] 🕈                                                                                     | and the second second |      |   |       |       |        | 0                   | - 0       | - 23 |
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| ÷ → C 🗯 portal azure c                                        | om/?quickstart=true#create/Microsoft:VirtualMachine=ARM                                  |                       |      |   | er (3 | 12 \$ | 5      | * =:                | 0 🗳       | 1    |
| E Microsoft Azure 🕤                                           | Upgrade D Search resources, services, and docs (G+/)                                     |                       | EI Q | ٩ | • •   | R     | bharga | vi.aqua04<br>DEFAUL | Contrail. | 2    |
| Home > Virtual machines >                                     |                                                                                          |                       |      |   |       |       |        |                     |           |      |
| Create a virtual ma                                           | chine                                                                                    |                       |      |   |       |       |        |                     |           | ×    |
| 5 ma # (0)                                                    | Chandrad Tyle ut - Turnur 18 (50 manuary 180 807 40 marths                               |                       |      |   |       |       |        |                     |           |      |
| 566- 0                                                        | See all sizes                                                                            | ~                     |      |   |       |       |        |                     |           |      |
| Administrator account                                         |                                                                                          |                       |      |   |       |       |        |                     |           |      |
| Username * 💿                                                  | windowsuser                                                                              | ~~                    |      |   |       |       |        |                     |           |      |
| Password * ①                                                  |                                                                                          | ~                     |      |   |       |       |        |                     |           |      |
| Confirm password * 💮                                          | ********                                                                                 | ~                     |      |   |       |       |        |                     |           |      |
| Inbound port rules                                            |                                                                                          |                       |      |   |       |       |        |                     |           |      |
| Select which virtual machine network access on the Networking | ork ports are accessible from the public internet. You can specify more limited or stab. | granular              |      |   |       |       |        |                     |           |      |
| Public inbound ports * ④                                      | O None                                                                                   |                       |      |   |       |       |        |                     |           |      |
|                                                               | <ul> <li>Allow selected ports</li> </ul>                                                 |                       |      |   |       |       |        |                     |           |      |
| Select inbound ports *                                        | RDP (3389)                                                                               | ~                     |      |   |       |       |        |                     |           |      |
|                                                               | A This will allow all IP addresses to access your detund machine. This                   | e in male             |      |   |       |       |        |                     |           |      |
| Beview + create                                               | < Dressions Next - Dicks >                                                               | NG 200                |      |   |       |       |        | 57                  | 100       |      |
| the Unortal anua com Trailebrart must                         |                                                                                          |                       |      |   |       |       |        | Se Given            | reeoback  |      |

In Networking tab, check the "Delete IP address when VM is deleted" check box and see that Public IP is set.

Virtual Machine is created.



We connect to Windows machine using Remote Desktop Connection.

Creation of a Linux Virtual Machine



#### Connect to Linux machine using "ssh username@publicIP"



Creating extra storage disks and mount a filesystem

In VM, click on Disks, and create a additional disk. Attach it to the VM and save.

| 🗉 Microsoft Azure 🛈 Upgra                                        | de P      | Search resou   | rces, services, and docs (G+/)    |                                          |            |                     | ÷ 🖉 🕫    |           | Difference of the second | M@gmail.     |
|------------------------------------------------------------------|-----------|----------------|-----------------------------------|------------------------------------------|------------|---------------------|----------|-----------|--------------------------|--------------|
| Home > Virtual machines > Linux-Bha                              | rgaviNuk  | ala            |                                   |                                          |            |                     |          |           |                          |              |
| Virtual machines<br>Default Directory (bhargaviaque04gmail.anmis | *(<br>705 | 8 Lin<br>Virte | nux-BhargaviNukala                | I   Disks                                |            |                     |          |           |                          | ×            |
| $+$ Create $\lor$ $\rightleftarrows$ Switch to classic $-$       | H.        | » 日            | Save 🗙 Discard 🕐 Refresh          | Additional setting                       | is 🔊 Feed  | oack 🥭 Troubleshoot |          |           |                          |              |
| Filter for any field                                             |           | OS c           | isk                               |                                          |            |                     |          |           |                          |              |
| Name 1.                                                          |           | 7              | Swap OS disk                      |                                          |            |                     |          |           |                          |              |
| 📮 Linux-BhargaviNukala                                           |           | D              | sk name                           | Storage type                             | Size (GiB) | Max IOP5            |          | Max throu | ghput ( Encryptic        | m @          |
| 👎 Windows1-BhargaviNukala                                        |           | Lin            | ix BhargaviNukala_OsDisk_1,17270d | Premium SSD LRS                          | 30         | 120                 |          | 25        | SSE with                 | РМК          |
|                                                                  |           | 14.00          |                                   |                                          |            |                     |          |           |                          |              |
|                                                                  |           | Data           | disks                             |                                          |            |                     |          |           |                          |              |
|                                                                  |           | 2              | ilter by name                     | <u> </u>                                 |            |                     |          |           |                          |              |
|                                                                  |           | Shov           | ring 1 of 1 attached data disks   |                                          |            |                     |          |           |                          |              |
|                                                                  |           | +              | Create and attach a new disk      | attach existing disks                    |            |                     |          |           |                          |              |
|                                                                  |           | 110            | u Dick name                       | Storace bu                               |            | Size (GR)           | May 1005 |           | May throughout (         | Connection ( |
|                                                                  |           | 0              | AdditionalSterage                 | Standard S                               | so it w    | 4                   | 500      |           | 60                       | Olatform-m   |
|                                                                  |           | 10             | • [[ Multionalizationge           | - J. | 00 (m. 0   |                     |          | _         |                          | L'FISTIMIT I |

Additional Storage "sdc" avaiable on Linux VM and shows not mounted



UNREGISTERED VERSION - Please support MobeXterm by subscribing to the professional edition here: https://mobexterm.mobatek.net

Now mount the storage using commands

\$mkdir additionalstorage

\$mkfs .ext4 /dev/sdc

\$mount -t ext4/dev/sdc additionalstorage/

| root@Linu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Sesson Se                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| <pre>loop2 loop2 loop3 loop3 loop3 loop3 loop3 loop3 loop3 loop4 l</pre> | 7:2<br>7:8<br>8:6<br>8:6<br>1 8:1<br>14 8:1<br>15 8:1<br>1 8:1<br>8:1<br>1 8:1<br>1 8:1<br>1 8:1<br>1 8:1<br>1 8:1<br>1 8:1<br>1 8:1<br>1 8:1<br>7:2<br>7:2<br>7:2<br>7:2<br>7:2<br>7:2<br>7:2<br>7:2<br>7:2<br>7:2 | 0 49.4<br>0 63.3<br>0 29.4<br>0 30.<br>0 29.5<br>0 92.0<br>0 92.0<br>1 62.0<br>1 62.0 | H         1         loop           2M         1         loop           2G         0         disk           2G         0         disk           2G         0         disk           2G         0         disk           4G         0         part           1G         0         disk           2G         0         disk           2G         0         disk           2G         0         disk           2G20         0         disk           2G20         0         disk           2G20         1         done           3da:/home/         220         disk           2G         disk         done           3da:/home/         disk         disk           3da:/home/         disk         disk           3da:/home/         disk         disk | /snap/<br>/snap/<br>/<br>/boot/<br>/mnt<br>Linuxus<br>uinuxus<br>goro, 2<br>Linuxus<br>goro, 2<br>Linuxus<br>(snap/<br>/snap/<br>/snap/<br>/<br>/snap/<br>/<br>/snap/<br>/<br>/snap/<br>/<br>/snap/<br>/<br>/snap/<br>/<br>/<br>/snap/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/<br>/////////////// | efi<br>er# mkfs.e<br>esti designed<br>er# mkfs.e<br>esti designed<br>er# mkfs.e<br>esti designed<br>esti de | xt4 /dev<br>2144 inod<br>5373<br>200, 8847<br>ormation:<br>-t ext4 /<br>5<br>3<br>8<br>additiona | /sdc<br>es<br>36<br>done<br>dev/sdc<br>lstorage | addition     | alstorage   | ÐÍ. |   |   |   |      |   |   |      |   |               |    |         |
| UNREGISTER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | by subscrib                                                                                                                                                                                                                                                                                                 | ing to the profes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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Create 10 files in the disk using the command

\$touch {1..10}.txt



#### Unmount the additional Storage using the command

#### \$umount additionalstorage/



Now attach the same disk to another VM

| Microsoft Azure (1) upgrade                                                                 | <ul> <li>P Search resources, services, and doc</li> </ul> | (G+/)                        |                   |          | 20 R             | Благдам.аqua04@/gma<br>режистряестоку днаяса |
|---------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------|-------------------|----------|------------------|----------------------------------------------|
| <ul> <li>Virtual machines &gt; LinuxVM-Sn<br/>LinuxVM-Snapsh<br/>Virtual machine</li> </ul> | ot   Disks …                                              |                              |                   |          |                  |                                              |
| P Search                                                                                    | « 🔚 Save 🗙 Discard 🚺 Refre                                | sh 🛛 🗐 Additional settings 🕴 | 🗟 Feedback 🖉 Troi | bleshoot |                  |                                              |
| Overview                                                                                    | OS disk                                                   |                              |                   |          |                  |                                              |
| Activity log                                                                                | ≓ Swap OS disk                                            |                              |                   |          |                  |                                              |
| Access control (IAM)                                                                        | Disk name                                                 | Storage type                 | Size (GiB)        | Max 30PS | Max throughout ( | Encryption (1)                               |
| Tags                                                                                        | Linux Disk-conv.                                          | Premium SSD LRS              | 32                | 120      | 25               | SSE with PMK                                 |
| Diagnose and solve problems                                                                 |                                                           |                              | 2.65              |          |                  |                                              |
| ettings                                                                                     | Data disks                                                |                              |                   |          |                  |                                              |
| Networking                                                                                  | P Filter by name                                          | 1                            |                   |          |                  |                                              |
| Connect                                                                                     | Showing 1 of 1 attached data disks                        |                              |                   |          |                  |                                              |
| Disks                                                                                       | storing 1011 control doe date.                            |                              |                   |          |                  |                                              |
| Size                                                                                        | + Create and attach a new disk                            | 🖉 Attach existing disks      |                   |          |                  |                                              |
| Microsoft Defender for Cloud                                                                | LUN 🕖 🛛 Disk name                                         | Storage type                 | Size (GiB)        | Max 10PS | Max thro         | ughput ( Encryption ()                       |
| Advisor recommendations                                                                     | Z additionalstorage                                       | Standard SSD                 | LRS 4             | 500      | 60               | SSE with PMI                                 |
|                                                                                             |                                                           |                              |                   |          |                  |                                              |

Connect to the VM and check the disk is already mounted and the additionalStorage is already available on the disk. Also the 10 files which we created in previous VM are also available in this VM.



#### Snapshot:

Create a Linux VM and install apache2.

\$apt update

\$apt install apache2

| Linux-BhargaviNukala - Microsol 🗙 🔶 | the second s | with a state of the state of th |                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| → C  portal.azure.com/#@bhc         | argaviaqua04gmail.onmicrosoft.com/resource/subscriptions/49d571c4                                              | 9421-4773-8fdb-101fc91ba274/resourceGroups/Az 🖪 🔄 🛧                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 🛾 🖈 🗊 🛛 🕻                                    |
| Microsoft Azure 🕘 Upgrade           | $\mathcal P$ . Search resources, services, and docs (G+/)                                                      | 国 ほ 🤗 @ の 戻 bt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | argavi.aqua04@gma<br>FAULT DIRECTORY (BHARGA |
| ne > Virtual machines >             |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |
| Linux-BhargaviNuk                   | cala Ջ☆…                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |
| ₽ Search «                          | 🖋 Connect 🗸 ▷ Start 🦿 Restart 🔲 Stop 📓 Capture                                                                 | 💼 Delete 💍 Refresh 🔋 Open in mobile 👼 CLI / PS 🔊 Feedback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                              |
| 👎 Overview                          | A Eccentiale                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | IE CORT MISSIO                               |
| Activity log                        | - Controls                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20014 41014                                  |
| Access control (IAM)                | AzureRG-BhargaviNukala                                                                                         | Unux (ubuntu 20.04)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                              |
| Tags                                | Status                                                                                                         | Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                              |
| Diagnose and solve problems         | Running                                                                                                        | Standard B1s (1 vcpu, 1 GiB memory)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                              |
|                                     | East US                                                                                                        | 4.236.142.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                              |
| Settings                            | Subscription (move)                                                                                            | Virtual network/subnet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                              |
| Networking                          | Free That                                                                                                      | AzureRG-BhargaviNukala-vnet/default                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                              |
| Ø Connect                           | Subscription ID<br>49d571c4-9421-4773-8fdb-101fc91ba274                                                        | DNS name<br>Not configured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                              |
| 8 Disks                             | Tans (edit)                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |
| 📮 Size                              | Click here to add tags                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |
| O Microsoft Defender for Cloud      |                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |
| Advisor recommendations             | Properties Monitoring Capabilities (7) Recommend                                                               | ations Tutorials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                              |
|                                     | Virtual machine                                                                                                | S Networking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                              |
| Construction of the                 | Computer name Linux-BhargaviNukala                                                                             | Public IP address 4.236.142.42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                              |
| Lontinuous delivery                 | Health state                                                                                                   | Public IP address (IPv6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              |
| Availability + scaling              | Operating system Linux (ubuntu 20.04)                                                                          | Private IP address 10.0.0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |

## Check the status of apache2 running

## \$systemctl status apache2



|                                                         | O passib series and and                   | view and down in L &                                           |                        |                           | Bhargavi.agua04@gmail.      |
|---------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------|------------------------|---------------------------|-----------------------------|
| Virtual machines > Linux-BhargaviNu     Virtual machine | <sup>iNukala</sup><br>cala   Network      | ng ☆                                                           |                        | Add inbound security rule | DEFAULT DERECTORY (BHARGAVE |
| ₽ Search «                                              | Attach network                            | nterface 🖉 Detach network inter                                | face 🔗 Feedback        | Source ①                  |                             |
| Overview                                                | ipconfig1 (Primary                        | n ~]                                                           |                        | Source port ranges * ①    |                             |
| Activity log                                            | Network Inter                             | face: linux-bhargavinukala824                                  | Effective security r   |                           |                             |
| Access control (IAM)                                    | Virtual network/sub                       | net: AzureRG-BhargaviNukala-vnet/c                             | lefault NIC Public     | Destination ()            |                             |
| Tags                                                    | *-10-10-10-10-10-10-10-10-10-10-10-10-10- |                                                                |                        | Апу                       | 2                           |
| Diagnose and solve problems                             | inbound port ru                           | es Outbound port rules Ap                                      | plication security gro | Service ①                 |                             |
| ettinas                                                 | Network secu<br>Impacts 0 subn            | rity group LinuxBhargaviNukalansg<br>ets, 1 network interfaces | 533 (attached to net   | HTTP                      |                             |
| 2 Networking                                            | Priority                                  | Name                                                           | Port                   | Destination port ranges 🕕 |                             |
| 9 Connect                                               | 300                                       | 🛆 SSH                                                          | 22                     |                           |                             |
| Disks                                                   | 310                                       | AllowAnyHTTPInbound                                            | 80                     | Protocol.                 |                             |
| Size                                                    | 65000                                     | AllowVnetInBound                                               | Any                    | TCP                       |                             |
| Microsoft Defender for Cloud                            | 65001                                     | AllowAzureLoadBalancerinBo                                     | und Any                | O UDP                     |                             |
| Advisor recommendations                                 | 65500                                     | DenyAllInBound                                                 | Any                    | O ICMP                    |                             |
| Extensions + applications                               | 4                                         |                                                                |                        | Action                    |                             |
| Continuous dolivoru                                     |                                           |                                                                |                        | <ul> <li>Allow</li> </ul> |                             |
| - contractive dentity                                   |                                           |                                                                |                        | Add Cancel                | Give fee                    |

Add the Inbound rule for HTTP-80 port in Networking tab of VM

Access the webpage from browser using public IP of VM



# Go to VM->Disks->Create Snapshot of the disk

| Microsoft Azure                                                            | 🖂 🕞 🖉 🎯 🖓 bhargavi.aqua04@gmai                                          |
|----------------------------------------------------------------------------|-------------------------------------------------------------------------|
| me >                                                                       |                                                                         |
| Sinapshot & ☆ …<br>Snapshot                                                |                                                                         |
| + Create disk + Create VM image version 🜓 Copy snapshot 🍵 Delete 💍 Refresh |                                                                         |
|                                                                            | JSON Vie                                                                |
| Resource group (move)   AzureRG-BhargaviNukala 🗈                           | Created : 2022-12-12T14:22:38.1856597+00:00                             |
| Location (move) East US                                                    | Storage type : Standard HDD LRS                                         |
| Subscription (move) : Free Trial                                           | Source ; Linux-BhargaviNukala_OsDisk_1_f7270d4222bf4584a29e70e03ccd8e5b |
| Subscription ID : 49d571c4-9421-4773-8fdb-101fc91ba274                     | Size : 30 GiB                                                           |
| Snapshot state : Unattached                                                | Encryption : Platform-managed key                                       |
| Tags (edit) : Click here to add tags                                       |                                                                         |
| Get started Properties                                                     |                                                                         |
| Snapshot                                                                   | 📮 Size                                                                  |
| Name Linux-Snapshot                                                        | Size 30 GiB                                                             |
| Snapshot type Full                                                         | Storage type Standard HDD LRS                                           |
|                                                                            |                                                                         |
| VM generation Gen 2                                                        |                                                                         |
| VM generation Gen 2<br>Completion percent 100                              |                                                                         |

Now create a disk from the created snapshot

Goto Created Snapshot->Create Disk

| Microsoft Azure     | Search resources, services, and docs (G+/)     |                   | 51 <b>6</b>              | 6 @ | @ R | DhargavLaqua04@gmai<br>DEFAULT DIRECTORY (RHARGAV |
|---------------------|------------------------------------------------|-------------------|--------------------------|-----|-----|---------------------------------------------------|
| e >                 |                                                |                   |                          |     |     |                                                   |
| LinuxDisk-c         | :opy ☆ ☆ -                                     |                   |                          |     |     |                                                   |
| + Create VM +       | Create VM image version + Create snapshot I De | 🕐 Refresh         |                          |     |     |                                                   |
| ∧ Essentials        |                                                |                   |                          |     |     | JSON View                                         |
| Resource group (mas | e) : AzureRG-BhargaviNukala                    | Disk size         | : 32 Gi8                 |     |     |                                                   |
| Disk state          | : Attached                                     | Disk sku          | : Premium SSD LRS        |     |     |                                                   |
| Location            | : East US                                      | Managed by        | : LinuxVM-Snapshot       |     |     |                                                   |
| Subscription (move) | T Free Toal                                    | Operating system  | : Linux                  |     |     |                                                   |
| Subscription ID     | : 49d571c4-9421-4773-8fdb-101fc91ba274         | Completion perce  | ent : 100                |     |     |                                                   |
| Time created        | : 12/12/2022, 7:54:52 PM                       | Max shares        | ÷ 0                      |     |     |                                                   |
|                     |                                                | Availability zona | : None                   |     |     |                                                   |
|                     |                                                | Performance Lier  | : P4 - 120 IOPS, 25 MBp5 |     |     |                                                   |
|                     |                                                | Security type     | 1 Standard               |     |     |                                                   |
| Tour Indits         | Click here to add tags                         |                   |                          |     |     |                                                   |

From the newly created disk-> create a VM

Select the above created disk in OS dropdown box

| nuxVM-Snapshot - Microsoft / | 🗛 🗙 😨 Apache2 Uburitu Default Page II 🗴 🕂                    | Address of the Addres | - 10                                |                                               |
|------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------|
| C 🔒 portal.azure             | .com/#@bhargaviaqua04gmail.onmicrosoft.com/resource/subscrip | ptions/49d571c4-9421-4773-8fdb-101fc91ba                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 274/resourcegroups/Azu 🖪 🖄 🕏        | 7 🐹 🗯 🗊 🔲                                     |
| Microsoft Azure              | P Search resources, services, and docs (G+/)                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5 G 🖗 🖓 🐵 🛛 R                       | bhargavi.aqua04@gr<br>DEFAULT DIRECTORY (BHAR |
| .>                           |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                               |
| LinuxVM-Snap                 | oshot 🖉 ☆ …                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                               |
| Virtual machine              |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                               |
| 🔗 Connect 🤟 ▷ Star           | t 🦿 Restart 🔲 Stop 🔀 Capture 📋 Delete 💍 Refresh              | 🚺 Open in mobile 😞 CLI / PS 🔗 Feedb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ack                                 |                                               |
|                              |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     | JSON View                                     |
| Resource proup (move)        | : AzureRG-BhardaviNukaja                                     | Operating system : Linux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | (ubuntu 20.04)                      |                                               |
| Status                       | ; Running                                                    | Size : Stand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ard B1s (1 vopu, 1 GiB memory)      |                                               |
| Location                     | : East US                                                    | Public IP address ; 13.68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 171:129                             |                                               |
| Subscription (move)          | : Free Trial                                                 | Virtual network/subnet : Azure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | RG-BhargaviNukala-vnet/default      |                                               |
| Subscription ID              | : 49d571c4-9421-4773-8fdb-101fc91ba274                       | DNS name : Not c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | antigured                           |                                               |
| Taos (edit)                  | : Click here to add taos                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                               |
|                              |                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                               |
| Properties Monito            | oring Capabilities (7) Recommendations Tutorials             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                               |
| 📮 Virtual machine            |                                                              | Setworking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                     |                                               |
| Computer name                | Linux-BhargaviNukala                                         | Public IP address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 13.68.171.129                       |                                               |
| Health state                 | 12 AP                                                        | Public IP address (IPv6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2                                   |                                               |
| Operating system             | n Linux (ubuntu 20:04)                                       | Private IP address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10.0.0.5                            |                                               |
| Publisher                    |                                                              | Private IP address (IPv6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 8                                   |                                               |
| Offer                        | 9                                                            | Virtual network/subnet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AzureRG-BhargaviNukala-vnet/default |                                               |
| Plan                         |                                                              | DNS name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Configure                           |                                               |
| VM generation                | ¥2                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                     |                                               |

After the new VM is created from the snapshot, check the status of apache2.

We can see that apache2 is already installed.



#### Machine Image:

Create an Ubuntu machine and install apache2 and php as mentioned in the link https://www.tecmint.com/install-lamp-with-phpmyadmin-in-ubuntu-18-04/

| -bhargaviNukala - Microsoft       | ×                                                             |                                        | and the second se |                    |          | •          |
|-----------------------------------|---------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|------------|
| Microsoft Azure                   | e.com/#@bhargaviaqua04gmail.onmicrosoft.com/resource/subscrip | ntions/49d571c4-9421-4773-8fdb-101fc91 | ba274/resourcegroup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                    | bhargavi | aqua04@g   |
| ) CreateVm-canonical              | 001-com-utsuntu-server-focal-2-20221217171825   Overview )    |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | (87) (72) (8)      |          | Dervice Da |
| VM-BhargaviN                      | lukala ∞ ☆ …                                                  |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |          |            |
| ${\cal S}$ Connect ${ee}$ $>$ Sta | t 💎 Restart 🔲 Stop 🎉 Capture 📋 Delete 🔘 Refresh               | 👖 Open in mobile 📑 CLI / PS 😽 Fee      | dback                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |          |            |
| ∧ Essentials                      |                                                               |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |          | JSON Vie   |
| Resource group (move)             | : AzureRG-BhargaviNukala                                      | Operating system : Lin                 | ux (ubuntu 20.04)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |          |            |
| Status                            | : Running                                                     | Size : Sta                             | ndard B1s (1 vcpu, 1 GiB m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | emory)             |          |            |
| Location                          | : East US                                                     | Public IP address : 20:                | 228.178.253                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |          |            |
| Subscription (move)               | t Eree Irial                                                  | Virtual network/subnet : Az            | ireRG-BhargaviNukala-vne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | t/default          |          |            |
| Subscription ID                   | : 49d571c4-9421-4773-8fdb-101fc91ba274                        | DNS name 1 No                          | t configured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                    |          |            |
| Tags (eclit)                      | : Click here to add tags                                      |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |          |            |
| Properties Monito                 | ring Capabilities (7) Recommendations Tutorials               |                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |          |            |
| Virtual machine                   |                                                               | Se Networking                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |          |            |
| Computer name                     | VM-BhargaviNukala                                             | Public IP address                      | 20.228.178.253                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |          |            |
| Health state                      |                                                               | Public IP address (IPv6)               | C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |          |            |
| Operating system                  | u Linux (ubuntu 20.04)                                        | Private IP address                     | 10.0.0.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |          |            |
| Publisher                         | canonical                                                     | Private IP address (IPvδ)              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                    |          |            |
| Offer                             | 0001-com-ubuntu-server-focal                                  | Virtual network/subnet                 | AzureRG-BhargaviNu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ukala-vnet/default |          |            |
|                                   | To other and a                                                | TIME manage                            | Configure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                    |          |            |

#### Install apache2 and php



Access the webpage of VM using public IP/info.php

| A Not secure   20.228.1/8.253/info.php | e \$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | X | a * | i ≣t | 3 |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----|------|---|
| PHP Version 7.4.3                      | php                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |     |      |   |
| System                                 | Linux VM-BhargaviNukala 5 15.0-1029-azure #36-20.04.1-Ubuntu SMP Tue Dec 6 17:00.26 UTC 2022 x96_64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |     |      |   |
| Build Date                             | Nov 2 2022 09:53:44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |     |      |   |
| Server API                             | Apache 2.0 Handler                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |     |      |   |
| Virtual Directory Support              | disabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |     |      |   |
| Configuration File (php.ini) Path      | /etc/php/7.4/apache2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |     |      |   |
| Loaded Configuration File              | /etc/php/7.4/apache2/php.ini                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |   |     |      |   |
| Scan this dir for additional uni files | /etc/php/7.4/apache2/conf d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |     |      |   |
| Additional ini files parsed            | Aetohoff 7. 4lapache 2/c onf d110-mysolind int / (etc.)php/7. 4/apache 2/c onf d10-bos ac he int,<br>/etc/php/7. 4lapache 2/c onf d120-pdo int, /etc.)php/7. 4/apache2/cont d220-estendarius,<br>/etc/php/7. 4lapache2/cont d120-etcyse int, /etc./php/7. 4lapache2/cont d220-esti int, /etc/php/7. 4lapache2/cont d220-<br>fft. Int, /etc./php/7. 4lapache2/cont d220-Bisinft. int, /etc./php/7. 4lapache2/cont d220-esti int, /etc/php/7. 4lapache2/cont d220-<br>fft. Int, /etc./php/7. 4lapache2/cont d220-Bisinft. int, /etc./php/7. 4lapache2/cont d220-esti int, /etc./php/7. 4lapache2/cont d220-<br>esti /etc./php/7. 4lapache2/cont d220-bisinft. int, /etc./php/7. 4lapache2/cont d220-esti int, /etc./php/7. 4lapache2/cont d220-<br>pto, //stagene2/cont d220-bisinft. //etc./php/7. 4lapache2/cont d220-esti int, /etc./php/7. 4lapache2/cont d220-<br>/etc./php/7. 4lapache2/cont d220-bisinft. //etc./php/7. 4lapache2/cont d220-esti //etc./php/7. 4lapache2/cont d220-<br>/etc./php/7. 4lapache2/cont d220-bisinft. //etc./php/7. 4lapache2/cont d220-bisint,<br>/etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d220-esti //etc./php/7. 4lapache2/cont d220-<br>/etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d220-bisint,<br>/etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d220-bisint,<br>/etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d220-bisint,<br>/etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d200-bisint,<br>/etc./php/7. 4lapache2/cont d200-bisinter. |   |     |      |   |
| PHPAPI                                 | 20190902                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |     |      |   |
| PHP Extension                          | 20190902                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |     |      |   |
| Zend Extension                         | 320190902                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |     |      |   |
| Zend Extension Build                   | API320190502,NTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |   |     |      |   |
| PHP Extension Build                    | API20190902,NTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |     |      |   |
| Debug Build                            | no                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |     |      |   |
| Thread Safety                          | disabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |     |      |   |
|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |     |      |   |
| Zend Signal Handling                   | enabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |     |      |   |

To create an image of the above created VM, goto VM->Capture

| Microsoft Azure     | Upgrade      P Search resources, services, and docs (G+/) |                         | 📃 🖸 🗣 🧶 🐵                  | @ & | bhargavi.aqua04@gmai<br>DEFAULT DIRECTO |
|---------------------|-----------------------------------------------------------|-------------------------|----------------------------|-----|-----------------------------------------|
| lome >              |                                                           |                         |                            |     |                                         |
| 0.0.1 (VMG          | allery_BhargaviNukala/LinuxImage/0.0.                     | .1) & *                 |                            |     |                                         |
| + Create VM +       | Create VMSS 📋 Delete 🚫 Refresh                            |                         |                            |     |                                         |
| ↑ Essentials        |                                                           |                         |                            |     | JSON                                    |
| Resource group (mov | e) : AzureRG-BhargaviNukala                               | Azure compute gallery   | : VMGallery BhargaviNukala |     |                                         |
| Status              | : Succeeded                                               | VM image definition     | † Linuximage               |     |                                         |
| Location            | : East US                                                 | Replication status      | 1 Completed                |     |                                         |
| Subscription (move) | : Free Trial                                              | Confidential compute en | (d > 1)                    |     |                                         |
| Subscription ID     | : 49d571c4-9421-4773-8fdb-101fc91ba274                    | Encryption type         | : Platform-managed key     |     |                                         |
|                     |                                                           |                         |                            |     |                                         |
| Tags (edit)         | : Click here to add tags                                  |                         |                            |     |                                         |

Create a VM from this Image by selecting this image in OS section of VM.

|                                                                                               |                                                |                                                                                                            |                                 | The second s |
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| Microsoft Azure 💮 Upgra                                                                       | e P Search resources, services, and docs (G+/) |                                                                                                            | 🖸 🗣 🖓 🐵 🖉 🧟                     | bhargavi.aqua04@gm<br>DEFAULT DIRE                                                                             |
| • >                                                                                           |                                                |                                                                                                            |                                 |                                                                                                                |
| VMfromImage 🔗                                                                                 | <b>☆</b>                                       |                                                                                                            |                                 |                                                                                                                |
| Virtual machine                                                                               |                                                |                                                                                                            |                                 |                                                                                                                |
| 🖉 Connect 🗸 ▷ Starl 🤇 R                                                                       | start 🔲 Stop 🐹 Capture 📋 Delete 🖒 Refresh 🗓    | Open in mobile 🛛 😓 CLI / PS 🔗 Feedb                                                                        | ack                             |                                                                                                                |
|                                                                                               |                                                |                                                                                                            |                                 | JSON View                                                                                                      |
| Resource group (move) : AzureR                                                                | -BhargaviNukala                                | Operating system : Linux                                                                                   | (ubuntu 20.04)                  |                                                                                                                |
| Status : Runnin                                                                               |                                                | Size : Stand                                                                                               | ard B1s (1 vcpu, 1 Gi8 memory)  |                                                                                                                |
| Location : East US                                                                            |                                                | Public IP address : 20.12                                                                                  | .186.190                        |                                                                                                                |
| Subscription (move) : Free Tr                                                                 | <u>d</u> e                                     | Virtual network/subnet:Azure                                                                               | RG-BhargaviNukala-vnet/default  |                                                                                                                |
| Subscription ID : 49d571                                                                      | :4-9421-4773-8fdb-101fc91ba274                 | DNS name : <u>Not o</u>                                                                                    | ontigured                       |                                                                                                                |
| Tags (edit) : Click h                                                                         | re to add tags                                 |                                                                                                            |                                 |                                                                                                                |
|                                                                                               |                                                |                                                                                                            |                                 |                                                                                                                |
| antestatives manufations a                                                                    | apabilities (7) Recommendations Tutorials      |                                                                                                            |                                 |                                                                                                                |
| Properties Monitoring                                                                         |                                                |                                                                                                            |                                 |                                                                                                                |
| Properties Monitoring                                                                         |                                                | Networking                                                                                                 |                                 |                                                                                                                |
| Properties Monitoring Virtual machine Computer name                                           | VMfromImage                                    | Networking<br>Public IP address                                                                            | 20.121.186.190                  |                                                                                                                |
| Properties Monitoring<br>Virtual machine<br>Computer name<br>Health state                     | VMfromImage                                    | Networking     Public IP address     Public IP address (IPv6)                                              | 20.121.186.190                  |                                                                                                                |
| Properties Monitoring<br>Virtual machine<br>Computer name<br>Health state<br>Operating system | VMfromEmage<br>-<br>Linux (ubuntu 20.04)       | Networking     Public IP address     Public IP address     Public IP address (IPv6)     Private IP address | 20.121.186.190<br>-<br>10.0.0,5 |                                                                                                                |

Check that apache2 and php are already installed in this new VM

| root@                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Quick                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| meti sta<br>Wyer<br>m/apache<br>2022-12<br>ecc/2.4/<br>achecti<br>start<br>start<br>start<br>start<br>Startin<br>Started | tus ap<br>2.serv<br>-17 12<br>start<br>The A<br>festord | ache2<br>;:cs:su<br>(code-<br>Apache<br>pache | exited,  | vendar<br>min 305<br>status<br>arvar.<br>rver. | r preset<br>ago<br>0/SUCI | : en | enabled)<br>3)                                                                                                  |          |      |

| 🙏 VMfromImage - Mir | crosoft Azure × S PHP 7.4.3 - phpinfo() | × 🕂                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |    |   | ×          |
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| + > C A 1           | Vot secure   20.121.186.190/info.php    | e<br>د                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ŷ | X | * | ≡J | • | <b>9</b> : |
|                     | PHP Version 7.4.3                       | php                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |    |   | Î          |
|                     | System                                  | Linux VMtromimage 5 15 0-1029-azure #35-20.04.1-Ubuntu SMP Tue Dec 6 17:00:26 UTC 2022 x86_64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1 |   |   |    |   |            |
|                     | Build Date                              | Nov 2 2022 09 53 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |    |   |            |
|                     | Server API                              | Apache 2.0 Handlar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |    |   |            |
|                     | Virtual Directory Support               | disabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |    |   |            |
|                     | Configuration File (php.ini) Path       | /etc/chp/7.4/apache2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |   |   |    |   |            |
|                     | Loaded Configuration File               | /etc/php/7_4/apache2/php.ini                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |   |   |    |   |            |
|                     | Scan this dir for additional .ini files | /etc/php/7.4/apache2/conf.d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |    |   |            |
|                     | Additional .ini files parsed            | Vetchor/T. 4tapathe2tondt/D-point in: Vetchpin/T. 4tapathe2tondt 4010-opt acte im,<br>Vetchor/T. 4tapathe2tondt/D-point: Vetchpin/T. 4tapathe2tondt 4020-alendari<br>vetchbr/T. 4tapathe2tondt/D-point: Vetchpin/T. 4tapathe2tondt 4020-alendari<br>vetchbr/T. 4tapathe2tondt/D2D-gtvpi.ini; Vetchpin/T. 4tapathe2tondt 4020-alendari<br>vetchpin/T. 4tapathe2tondt 4020-gtvpi.ini; Vetchpin/T. 4tapathe2tondt 4020-gtvpin/T. 4tapathe2tondt 4020-<br>icom: Ini; Vetchpin/T. 4tapathe2tondt 4020-gsol, Ini; Vetchpin/T. 4tapathe2tondt 4020-gtvpin/T. 4tapathe2tondt 4020-<br>icom: Ini; Vetchpin/T. 4tapathe2tondt 4020-gsol, Ini; Vetchpin/T. 4tapathe2tondt 4020-grant ini;<br>Vetchpin/T. 4tapathe2tondt 4020-gsol, Ini; Vetchpin/T. 4tapathe2tondt 4020-grant ini;<br>Vetchpin/T. 4tapathe2tondt 4020-gsol, Ini; Vetchpin/T. 4tapathe2tondt 4020-grant ini;<br>Vetchpin/T. 4tapathe2tondt 4020-gsol; Ini; Vetchpin/T. 4tapathe2tondt 4020-grant ini;<br>Vetchpin/T. 4tapathe2tondt 4020-gsol; Ini; Vetchpin/T. 4tapathe2tondt 4020-gsol; 4tapathe2tondt 402 |   |   |   |    |   |            |
|                     | PHP API                                 | 20190902                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |    |   |            |
|                     | PHP Extension                           | 20190902                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |    |   |            |
|                     | Zend Extension                          | 320190902                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   |    |   |            |
|                     | Zend Extension Build                    | AFI320190902,NT8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |    |   |            |
|                     | PHP Extension Build                     | API20190902,NTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |   |   |    |   |            |
|                     | Debug Build                             | no                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |   |   |    |   |            |
|                     | Thread Safety                           | disabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |    |   |            |
|                     | Zend Signal Handling                    | enabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |   |    |   |            |
|                     | Zend Memory Manager                     | enabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |   |   |   |    |   |            |
|                     | Zend Multibyte Support                  | disabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |   |   |    |   | - 24       |

#### **Network Security Group**

Create a Vnet with two subnets—use Virtual Networks to create a Vnet.



#### In the Vnet, create 2 subnets

| Virtual networks > AzureVnet-BhargaviNukala   Subnets ★<br>Virtual networks > AzureVnet-BhargaviNukala   Subnets ★<br>Search @ Search with log<br>% Activity log<br>% Access control (fAM)<br>@ figs<br>Address space<br>@ Connected devices<br>S Subnets<br>\$ Stanton<br>@ Dobs protection<br>@ fisivall<br>@ Mtrosoft Defender for Cloud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Microsoft Azure 🕚 🖉 Se              | arch resources, services, a        | nd docs (G+/)       |                    |                  | D 🕼 🖓                   | 🐵 👁 🖈 🛛 bha       | rgavi.aqua04@gm |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------|---------------------|--------------------|------------------|-------------------------|-------------------|-----------------|
| <ul> <li>AzureVnet-BhargaviNukala Subnets ★<br/>Virtual network</li> <li>Search          <ul> <li></li></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | e > Virtual networks > AzureVnet-Bl | nargaviNukala                      |                     |                    |                  | n Delles (Done Maren es |                   |                 |
| Image network         Image network <t< th=""><th>AzureVnet Bharga</th><th>aviNukala   Su</th><th>ibnets 🛪 –</th><th></th><th></th><th></th><th></th><th></th></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AzureVnet Bharga                    | aviNukala   Su                     | ibnets 🛪 –          |                    |                  |                         |                   |                 |
| Activity log     Diagnose and solve problems.     Settings     Connected devices     Subnets     Subnets     Subnets     Subnets     Marcesoft Defender for Cloud     Marcesoft Defender for Cloud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Search                              | < + Subnet +                       | Gateway subnet 💧 Re | fresh 🥼 🖏 Manage u | isers 🖲 Delete   |                         |                   |                 |
| <ul> <li>Activity log</li> <li>Acti</li></ul> | Overview                            | <ul> <li>Search subnet:</li> </ul> | -<br>               |                    |                  |                         |                   |                 |
| Access control (IAM)   Isgs   Isgs   Diagnose and solve problems   Diagnose and solve problems   Settings   Access space   Connected devices   Subnets   Subnets   Subnets   Marcosoft Defender for Cloud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Activity log                        |                                    |                     |                    |                  |                         |                   |                 |
| tags submet1 10.1.0.0/24 251   biagnose and solve problems   settings   Address space   Connected devices   Submets   Submets   Bastion   Doos protection   Frewall   Microsoft Defender for Cloud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Access control (IAM)                | Name 🕁                             | IPv4 ↑↓             | IPv6 ↑↓            | Available IPs ↑↓ | Delegated to ↑↓         | Security group 14 | Route table 1   |
| Diagnose and solve problems<br>settings<br>Address space<br>Connected devices<br>Submets<br>Submets<br>Submets<br>Doos protection<br>Firewall<br>Microsoft Defender for Cloud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 🖉 Tags                              | subnet1                            | 10.1.0.8/24         | 8                  | 251              |                         | 24                | 24              |
| Address space Address space Address space Connected devices Subnets Subnets Subnets Firewall Microsoft Defender for Cloud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Diagnose and solve problems         | subnet2                            | 10.1.1.0/24         | 8                  | 251              | -                       | 19                | 3               |
| Address space Address space Connected devices Subnets Bastion Doos protection Firewall Microsoft Defender for Cloud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Settings                            | 4                                  |                     |                    |                  |                         |                   |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Address space                       |                                    |                     |                    |                  |                         |                   |                 |
| Subnets Subnets DDos protection Firewall Microsoft Defender for Cloud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ø Connected devices                 |                                    |                     |                    |                  |                         |                   |                 |
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| DDos protection  Firewall  Microsoft Defender for Cloud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | × Bastion                           |                                    |                     |                    |                  |                         |                   |                 |
| Firewall  Microsoft Defender for Cloud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ODos protection                     |                                    |                     |                    |                  |                         |                   |                 |
| Microsoft Defender for Cloud                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 🗣 Firewall                          |                                    |                     |                    |                  |                         |                   |                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Allerando Defender for Flored       |                                    |                     |                    |                  |                         |                   |                 |

Now create one VM in each subnet.

| 👗 Virtual machines - Microsoft Azu 👂                    | PHP 7.4.3 - phpinfo()          | × +                        | - 8-                                   | A DESCRIPTION OF                 | Statement A                                 | -            |               |                  | a x                  |
|---------------------------------------------------------|--------------------------------|----------------------------|----------------------------------------|----------------------------------|---------------------------------------------|--------------|---------------|------------------|----------------------|
| ÷ → C 🔒 portal.azure.co                                 | m/?feature.msaijs=false#vi     | ew/HubsExtension/Brow      | eResource/resourceType/I               | Vicrosoft.Compute                | %2FVirtualMachines                          | 07           | 664           | 🗙 🏞 🖘 D          | 1 🍈 :                |
| = Microsoft Azure 🔞                                     | P Search resources, services   | ces, and docs (G+/)        |                                        |                                  |                                             | ş 🤌 👳        | @ R           | bhargavi.aqua04@ | gmail                |
| Home >                                                  |                                |                            |                                        |                                  |                                             |              |               |                  |                      |
| Virtual machines                                        | 8                              |                            |                                        |                                  |                                             |              |               |                  | ×                    |
| $+$ Create $\lor~~$ $\rightleftarrows$ Switch to classi | ic 🕚 Reservations 🗸 🕴          | 🖇 Manage view 🗸 🜔          | Refresh 🛓 Export to CSV                | S Open query                     | 🕅 Assign tags D                             | * Start 🦿 Re | estart 🔲 Stop | Delete ***       |                      |
| Filter for any field Subse                              | cription equals <b>all</b> Ty; | e equals <b>all</b> Resour | ce group equals all $	imes$            | Location equals all              | $\times$ <sup>+</sup> $_{\rm Y}$ Add filter |              |               |                  |                      |
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| Name 🕆 🛛                                                | Type ↑↓                        | Subscription 14            | Resource group $\uparrow_{\downarrow}$ | Location $\uparrow_{\downarrow}$ | Status ↑↓                                   | Operat       | ing system ↑↓ | Size ↑↓          |                      |
|                                                         |                                |                            |                                        |                                  |                                             |              |               |                  | Public I             |
| VM1-ForLE                                               | Virtual machine                | Free Trial                 | AzureRG-BhargaviNuk-                   | East US                          | Running                                     | Window       | NS            | Standard_D2s_v3  | Public I<br>20.169.3 |

| 4                                                                             | 9 <b>5</b>       |
|-------------------------------------------------------------------------------|------------------|
| <pre>&lt; Provious Page 1 v of 1 Noxt &gt; Showing 1 to 2 of 2 records.</pre> | PP Give feedback |

Setup IIS server on both VM s. As we have created Vnet with default Inbound and Outbound rules, with default rules, only Inbound traffic from same Vnet are allowed and from outside is not allowed.

#### Load Balancer:

Create a Load Balancer by adding a new Frontend Configuration and adding a new Public IP.





Now add Backend pools for LB. Select the created Vnet and the machines we created in 2 subnets and add them to Backend Pool of LB.

|                                                                                                                                                           |                                                                                                            |                                                    |                                    |                                          |          |   | (Contraction) | 100 |   |            |             | bbarn       | avi anna | 04@inmai    | 1     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------|------------------------------------------|----------|---|---------------|-----|---|------------|-------------|-------------|----------|-------------|-------|
| = Microsoft Azure 😈                                                                                                                                       | CP Search resources, servic                                                                                | ces, and docs (G+/)                                |                                    |                                          |          | 1 |               | 47  | - | <i>y</i> a | ) <u>88</u> | Contract of | DEFA     | ULT DERECTO | DRY C |
| Iome > Microsoft.LoadBalancer-                                                                                                                            | -20221221182224   Overviev                                                                                 | v > LB-BhargaviN                                   | ukala   Backend                    | pools >                                  |          |   |               |     |   |            |             |             |          |             |       |
| Add backend pool<br>B-BhargaviNukala                                                                                                                      |                                                                                                            |                                                    |                                    |                                          |          |   |               |     |   |            |             |             |          |             | ×     |
| lame *                                                                                                                                                    | BackendPool-LB                                                                                             |                                                    |                                    |                                          |          |   |               |     |   |            |             |             |          |             |       |
| firtual network 💮                                                                                                                                         | AzureVnet-BhargaviN                                                                                        | lukala (AzureRG-Bh                                 | argaviNukala)                      |                                          | ~        |   |               |     |   |            |             |             |          |             |       |
| ackend Pool Configuration                                                                                                                                 | I NAC                                                                                                      |                                                    |                                    |                                          |          |   |               |     |   |            |             |             |          |             |       |
|                                                                                                                                                           | O IB address                                                                                               |                                                    |                                    |                                          |          |   |               |     |   |            |             |             |          |             |       |
|                                                                                                                                                           |                                                                                                            |                                                    |                                    |                                          |          |   |               |     |   |            |             |             |          |             |       |
|                                                                                                                                                           |                                                                                                            |                                                    |                                    |                                          |          |   |               |     |   |            |             |             |          |             |       |
| P configurations                                                                                                                                          |                                                                                                            |                                                    |                                    |                                          |          |   |               |     |   |            |             |             |          |             |       |
| P configurations                                                                                                                                          | al machines and virtual machin                                                                             | ne scale sets must b                               | e in same locatio                  | n as the load balan                      | cer      |   |               |     |   |            |             |             |          |             |       |
| P configurations P configurations associated to virtu nd be in the same virtual network.                                                                  | al machines and virtual machin                                                                             | ne scale sets must b                               | ie in same locatio                 | n as the load balan                      | cers     |   |               |     |   |            |             |             |          |             |       |
| P configurations <sup>9</sup> configurations associated to virtuind be in the same virtual network.                                                       | al machines and virtual machin                                                                             | ne scale sets must b                               | e in same locatio                  | n as the load balan                      | cer      |   |               |     |   |            |             |             |          |             |       |
| P configurations C configurations associated to virtu Ind be in the same virtual network. Add I X Remove                                                  | al machines and virtual machin                                                                             | ne scale sets must b                               | ie in same locatio                 | n as the load balan                      | cer      |   |               |     |   |            |             |             |          |             |       |
| P configurations O configurations associated to virtu nd be in the same virtual network. + Add   × Remove                                                 | al machines and virtual machin                                                                             | ne scale sets must b                               | ie in same locatio                 | n as the load balan                      | cer      |   |               |     |   |            |             |             |          |             |       |
| P configurations Configurations associated to virtuand be in the same virtual network. Add   × Remove Resource Na Resou                                   | al machines and virtual machin<br>rce gro Type                                                             | ne scale sets must b<br>IP configurat              | ie in same locatic<br>IP Address   | n as the load balan<br>Availability      | cer      |   |               |     |   |            |             |             |          |             |       |
| P configurations  C configurations associated to virtu nd be in the same virtual network.  Add   × Remove  Resource Na Resou                              | al machines and virtual machin<br>rce gro Type<br>RG-Bharcas, Virtual machine                              | ne scale sets must b<br>IP configurat              | IP Address                         | n as the load balan<br>Availability      | cer      |   |               |     |   |            |             |             |          |             |       |
| Configurations     Configurations associated to virtual     de in the same virtual network.     Add   × Remove     Resource Na Resou     VM1-ForLB Azurel | al machines and virtual machin<br>rce gro Type<br>RG-Bhargas Virtual machine                               | ne scale sets must b<br>IP configurat<br>ipconfig1 | IP Address                         | n as the load balan<br>Availability      | cer      |   |               |     |   |            |             |             |          |             |       |
| P configurations     O configurations associated to virtual network.     Add   × Remove     Resource Na Resou     VM2-ForLB Azurel     VM2-ForLB Azurel   | al machines and virtual machin<br>rce gro Type<br>RG-Bhargas Virtual machine<br>RG-Bhargas Virtual machine | IP configurat<br>ipconfig1                         | IP Address<br>10.1,0,4<br>10.1,1,4 | n as the load balan<br>Availability<br>- | cer<br>I |   |               |     |   |            |             |             |          |             |       |

# Add a health probe for LB

|                                            | ⑦ P Search resources, services, and docs (G+/)                                                                                                                          |                                 | P 🐵 🛈 Ā | DEFAULT DIRECTORY |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------|-------------------|
| Home > Microsoft.Load                      | Balancer-20221221182224   Overview > LB-BhargaviNukala   Health p                                                                                                       | robes >                         |         |                   |
| Add health pro                             | bbe                                                                                                                                                                     |                                 |         | ×                 |
| Health probes are use backend instance the | d to check the status of a backend pool instance. If the health probe fails to get a<br>no new connections will be sent to that backend instance until the health probe | response from a succeeds again. |         |                   |
| Name *                                     | HealthProbe-LE                                                                                                                                                          | ~                               |         |                   |
| Protocol *                                 | ТСР                                                                                                                                                                     | ~                               |         |                   |
| Port * ()                                  | 80                                                                                                                                                                      |                                 |         |                   |
| interval * 🕢                               | 5                                                                                                                                                                       |                                 |         |                   |
| Used by 🕕                                  | Not used                                                                                                                                                                | seconds                         |         |                   |
|                                            |                                                                                                                                                                         |                                 |         |                   |
|                                            |                                                                                                                                                                         |                                 |         |                   |
|                                            |                                                                                                                                                                         |                                 |         |                   |

Add Load Balancing Rules by selecting the above created Frontend, Backend pool and health probe

| Microsoft Azure                                                 | P Search resources services and does (G+A)                                                                                                                                          |   | 53 | 6 | 🥐 🐵 | Ø | 屉 | bhargas | Laqua040 | 9gmail   |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|-----|---|---|---------|----------|----------|
| fome > Microsoft.Loadilalance                                   | ar.20221221182224   Overview > LB-ShargoviNukala   Load balancing rules >                                                                                                           |   |    |   |     |   |   |         | DESAULT  | CIRCIDRY |
| B-Rule1                                                         |                                                                                                                                                                                     |   |    |   |     |   |   |         |          | ×        |
| A load balancing rule distribut<br>backend pool instances. Only | tes incoming traffic that is sent to a selected IP address and port combination across a group of<br>backend instances that the health probe considers healthy receive new traffic. |   |    |   |     |   |   |         |          |          |
| lame                                                            | UP-Rule1                                                                                                                                                                            |   |    |   |     |   |   |         |          |          |
| Version *                                                       | <ul> <li>IPvd</li> <li>IPvd</li> </ul>                                                                                                                                              |   |    |   |     |   |   |         |          |          |
| ontend IP address * 💿                                           | Frontend-LS (20.115.110.10)                                                                                                                                                         | ~ |    |   |     |   |   |         |          |          |
| ackend pool * (j)                                               | BackendPool-LB                                                                                                                                                                      | ~ |    |   |     |   |   |         |          |          |
| rotocol #                                                       | ● TCP<br>○ NDP                                                                                                                                                                      |   |    |   |     |   |   |         |          |          |
| * 110                                                           | BO                                                                                                                                                                                  |   |    |   |     |   |   |         |          |          |
| sckend port * 💿                                                 | 80                                                                                                                                                                                  |   |    |   |     |   |   |         |          |          |
| esith probe * 🙁                                                 | HealthProbe-LB (TCP:80)                                                                                                                                                             | ~ |    |   |     |   |   |         |          |          |

Check that IIS server is installed on two VMs. Make changes in web pages located at C:\inetpub\wwwroot to display VM1 and VM2.

Access webpage from browser using public IP of VM.

As seen, once VM1 is called and once VM2 is called by Load Balancer.

| 🚺 🔥 VM1-Fort.B - Microsoft 🗙 🐼 PHP 7.4.3 - phpinfo() 🗙 🐼 20.169.139                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 182 × 💽 IS Windows Serve | er 🗴 🞯 IIS Windows Server | × 🛛 🕑 IIS Windows Server | × +     | · · · · · · |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------|--------------------------|---------|-------------|
| ← → C ▲ Not secure 20.115.116.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                           | <b>\$</b> 1              | ê 🗴 🗙 🕯 | • ≕ □ 🍏 :   |
| Windows Server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |                           |                          |         |             |
| Internet Informa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | tion Services            |                           |                          |         |             |
| Welcome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ranua Tanyatuloa         |                           |                          |         |             |
| Velcone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Terveturoa               |                           |                          |         |             |
| Jara Santa | Bienvenido Hoş geldiniz  | ברוכים הבאים              | Welliam                  |         |             |
| Bem-vindo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Καλώς                    | Добро                     |                          |         |             |
| Vitejte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ορισατε Valkommen        | 한 중 한 니 다 Пожаловать      | Udvozoljuk               |         |             |
| Microsoft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Willkommen Velkommen     | رجا 2230<br>Witany        |                          |         |             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                           |                          |         |             |

| S IIS Windows Server | × 🕂               |            |           |              |               | - 0.00     | × Tell |             |       |
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| ← → C ▲ Not secure   | 20.115.116.16     |            |           |              |               |            | Q: 🕁   | 🛛 🖨 Incogni | ito : |
| VMIVMIVMIVMIVMIVMIV  | M1                |            |           |              |               |            |        |             |       |
|                      | 🕂 Windows Server  |            |           |              |               |            |        |             |       |
|                      |                   |            |           |              |               |            |        |             |       |
|                      | Internet Informa  | tion Se    | rvices    |              |               |            |        |             |       |
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|                      | Microsoft         | Willkommen | Velkommen |              | Witamy        |            |        |             |       |
|                      |                   |            |           |              |               |            |        |             |       |
|                      |                   | Y I        |           |              |               |            |        |             |       |

# VPC:

Create a Virtual Network. Add 2 subnets, one public subnet and one private subnet.

| → C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | om/?feature.msalis=false#create/Microso                                                                                  | oft.VirtualNetwork-ARM                           |             |    |    |     | 07 | 1 R      | 5.7    | X 1       | 1 23        | <u>a</u> 🗆 |
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| Microsoft Azure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | P Search resources, services, and docs (                                                                                 | (G+/)                                            |             | 24 | ₩. | 0 @ | 0  | 2 2<br>R | bharga | avi.aqua0 | 4@gmai      |            |
| ome > Virtual networks >                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                          |                                                  |             |    |    |     |    |          |        | DEFAU     | ILT DIRECTO | RY         |
| reate virtual netw                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ork                                                                                                                      |                                                  |             |    |    |     |    |          |        |           |             | ×          |
| Basics IP Addresses Secur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | rity Tags Review + create<br>e, specified as one or more address prefixes                                                | in CIDR notation (e.g. 192.168.1.0/2             | :4).        |    |    |     |    |          |        |           |             |            |
| IPv4 address space                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                          |                                                  |             |    |    |     |    |          |        |           |             |            |
| IPv4 address space<br>10.1.0.0/16 10.1.0.0 - 10.1.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5.255 (65536 addresses)                                                                                                  |                                                  |             |    |    |     |    |          |        |           |             |            |
| IPv4 address space           10.1.0.0/16         10.1.0.0 - 10.1.255           Add IPv6 address space         0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5.255 (65536 addresses)                                                                                                  |                                                  |             |    |    |     |    |          |        |           |             |            |
| IPv4 address space I0.1.0.0/16 10.1.0.0 - 10.1.255 Add IPv6 address space The subnet's address range in CIC network.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.255 (65536 addresses)<br>3R notation (e.g. 192.168.1.0/24). It must be                                                 | contained by the address space of                | the virtual |    |    |     |    |          |        |           |             |            |
| IPv4 address space I0.1.0.0/16 10.1.0.0 - 10.1.255 Add IPv6 address space Add IPv6 address space The subnet's address range in CID network. + Add subnet IR Remove su                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5.255 (65536 addresses)<br>2R notation (e.g. 192.168.1.0/24). It must be<br>abnet                                        | contained by the address space of                | the virtual |    |    |     |    |          |        |           |             |            |
| IPv4 address space         10.1.0.0/16       10.1.0.0 - 10.1.255         Add IPv6 address space       Image: Comparison of the subnet's address space         The subnet's address range in CIC network.         + Add subnet       Image: Remove subnet's subn | 5.255 (65536 addresses)<br>38 notation (e.g. 192.168.1.0/24). It must be<br>abnet<br>Subnet address range                | contained by the address space of<br>NAT gateway | the virtual |    |    |     |    |          |        |           |             |            |
| IPv4 address space IPv4 address space I0.1.0.0/16 I0.1.0.0 - 10.1.255 Add IPv6 address space Add IPv6 address range in CIC network. Add subnet Remove su Subnet name PubSubnet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5.255 (65536 addresses)<br>DR notation (e.g. 192.168.1.0/24). It must be<br>abnet<br>Subnet address range<br>10.1.0.0/24 | contained by the address space of<br>NAT gateway | the virtual |    |    |     |    |          |        |           |             |            |

Create 2 Vms, one in Public subnet and one VM in private subnet.

Public VM should be created by selecting the public IP.

|                                                                                  |                                                                                                                                                                              |                                             |     | 5460 C |     | A REAL PROPERTY AND A REAL | 1225                   |
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| Microsoft Azure 💿                                                                | P Search resources, services, and docs (G+/)                                                                                                                                 |                                             | E G | P 🐵    | @ R | bhargavi.aqua04<br>DEFAUL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | l@gmail<br>T DIRECTORY |
| ome > Virtual machines >                                                         |                                                                                                                                                                              |                                             |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| reate a virtual mach                                                             | nine                                                                                                                                                                         |                                             |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ×                      |
| ~                                                                                | ar a a                                                                                                                                                                       |                                             |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| Jefine network connectivity for your on<br>nbound and outbound connectivity v    | virtual machine by configuring network interface card (NEC) settings. You car<br>vith security group rules, or place behind an existing load balancing solutior              | control ports,<br>Learn more ©              |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| Network Interface                                                                |                                                                                                                                                                              |                                             |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| When creating a virtual machine, a ne                                            | twork interface will be created for you,                                                                                                                                     |                                             |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
|                                                                                  |                                                                                                                                                                              |                                             |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| rirtual network * 🗇                                                              | VirtualNetwork1-BhargaviNukala                                                                                                                                               | Ý                                           |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| îrtual network * 🝈                                                               | VirtualNetwork1-BhargaviNukala<br>Create new                                                                                                                                 | Ý                                           |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| irtual network * ①<br>ubnet * ②                                                  | VirtualNetwork1-BhargaviNukala<br>Create new<br>PubSubnet (10.1.0.0/24)                                                                                                      | ~<br>~                                      |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| irtual network * ①<br>ubnet * ②                                                  | VirtualNetwork1-BhargaviNukala<br>Create new<br>PubSubnet (10.1.0.0/24)<br>Manage subnet configuration                                                                       | ~                                           |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| firtual network * ①<br>ubnet * ②<br>ublic IP ①                                   | VirtualNetwork1-BhargaviNukala<br>Create new<br>PubSubnet (10.1.0.0/24)<br>Manage subnet configuration<br>(new) PubVM-ip                                                     | <ul> <li></li> <li></li> </ul>              |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| firtual network * ①<br>ubnet * ②<br>ublic IP ①                                   | VirtualNetwork1-BhargaviNukala<br>Create new<br>PubSubnet (10.1.0.0/24)<br>Manage subnet configuration<br>(new) PubVM-ip<br>Create new                                       | <ul> <li>✓</li> <li>✓</li> <li>✓</li> </ul> |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| irtual network * ①<br>ubnet * ②<br>ublic IP ①<br>iIC network security group ①    | VirtualNetwork1-BhargaviNukala<br>Create new<br>PubSubnet (10.1.0.0/24)<br>Manage subnet configuration<br>(new) PubVM-ip<br>Create new<br>None                               | ×<br>×                                      |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| firtual network * ①<br>iubnet * ②<br>ublic IP ①<br>aC network security group ①   | VirtualNetwork1-BhargaviNukala<br>Create new<br>PubSubnet (10.1.0.0/24)<br>Manage subnet configuration<br>(new) PubVM-ip<br>Create new<br>None<br>Sasic                      | <ul> <li></li> <li></li> <li></li> </ul>    |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| firtual network * ①<br>iubnet * ②<br>iublic IP ①<br>JIC network security group ① | VirtualNetwork1-BhargaviNukala<br>Create new<br>PubSubnet (10.1.0.0/24)<br>Manage subnet configuration<br>(new) PubVM-ip<br>Create new<br>None<br>Sasic<br>Advanced          | v<br>v                                      |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |
| Virtual network * ①<br>Subnet * ②<br>Rublic IP ①<br>RC network security group ①  | VirtualNetwork1-BhargaviNukala<br>Create new<br>PubSubnet (10.1.0.0/24)<br>Manage subnet configuration<br>(new) PubVM-lip<br>Create new<br>None<br>Basic<br>Advanced<br>None | v<br>v                                      |     |        |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |

Private VM should be created by not selecting the public IP.

| Microsoft Azure 💿                                                         | JD Search resources, services, and docs (G+/)                                                                                           |                                                            | E | 0 0 | bhargavi.aqua04@gmail |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---|-----|-----------------------|
| lome 🤉 Virtual machines 🦻                                                 |                                                                                                                                         |                                                            |   |     |                       |
| Create a virtual mac                                                      | hine                                                                                                                                    |                                                            |   |     | ×                     |
| Define network connectivity for your<br>inbound and outbound connectivity | virtual machine by configuring network interface card (NIC) setti<br>with security group rules, or place behind an existing load balanc | ngs. You can control ports,<br>ing solution. Learn more of |   |     |                       |
| Network interface                                                         |                                                                                                                                         |                                                            |   |     |                       |
| When creating a virtual machine, a n                                      | etwork interface will be created for you.                                                                                               |                                                            |   |     |                       |
| Virtual network * ①                                                       | VirtualNetwork1-BhargaviNukala                                                                                                          | ~                                                          |   |     |                       |
|                                                                           | Create new                                                                                                                              |                                                            |   |     |                       |
| Subnet * 💿                                                                | PrvSubnet (10.1.1.0/24)                                                                                                                 | ~                                                          |   |     |                       |
|                                                                           | Manage subnet configuration                                                                                                             |                                                            |   |     |                       |
|                                                                           | None                                                                                                                                    | ~                                                          |   |     |                       |
| Public IP 🕔                                                               | Tenne in the last                                                                                                                       |                                                            |   |     |                       |
| Public IP 🕔                                                               | Create new                                                                                                                              |                                                            |   |     |                       |
| Public IP ()                                                              | Create new                                                                                                                              |                                                            |   |     |                       |
| Public IP 💿                                                               | Create new<br>None<br>Basic                                                                                                             |                                                            |   |     |                       |
| Public IP ()                                                              | Create new           None           Sasic           Advanced                                                                            |                                                            |   |     |                       |
| Public IP ()                                                              | Create new       None       Sasic       Advanced       None                                                                             |                                                            |   |     |                       |
| Public IP ③                                                               | Create new None Sasic Advanced None Allow selected ports                                                                                |                                                            |   |     |                       |

Create a NAT Gateway to get Internet to Private Subnet. Select the Virtual Network and the private subnet where you want Internet.

| Microsoft Azure 🕥 🔎 S                                                                                                                                                        | earch resources, services, and docs (G+/)                                                | E G | P @ 0 R                    | bhargavi.aqua04@gmail 🙍      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----|----------------------------|------------------------------|
| ome > NAT gateways >                                                                                                                                                         |                                                                                          |     | and contract of the second | DEFAULT DIRECTORY (BHARGAVE. |
| reate network address                                                                                                                                                        | translation (NAT) gateway                                                                |     |                            | ×                            |
| To use the NAT gateway, at least one subne<br>gateway.                                                                                                                       | t must be selected. You can add and remove subnets after creating the $\ensuremath{NAT}$ |     |                            |                              |
| VirtualNetwork1-BhargaviNukala                                                                                                                                               | ×                                                                                        |     |                            |                              |
| Create new                                                                                                                                                                   |                                                                                          |     |                            |                              |
| A public address with a Basic SkU     A public address with a Basic SkU     An IPv6 address space     An existing INAT gateway     A virtual network gateway     Subnet name | Subnet address range                                                                     |     |                            |                              |
| PubSubnet                                                                                                                                                                    | 10.1.0.0/24                                                                              |     |                            |                              |
| PrvSubnet                                                                                                                                                                    | 10.1 1.0/24                                                                              |     |                            |                              |
| Manage subnets >                                                                                                                                                             |                                                                                          |     |                            |                              |
|                                                                                                                                                                              |                                                                                          |     |                            |                              |
|                                                                                                                                                                              |                                                                                          |     |                            |                              |
|                                                                                                                                                                              |                                                                                          |     |                            |                              |

Now connect to private machine from public machine using remote desktop connection of public VM. Access google.com on private VM and the page is displayed.

| C 🗄 https://www.google.com            |                                 | A <sup>n</sup>                                                                                         | 10     | £`≡  | ©⊕    | (8)     | 3  |
|---------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------|--------|------|-------|---------|----|
| bout Store                            |                                 | C Download Microsoft Edge mobile app                                                                   | ×      | a :  | . 1   | Sign    | in |
|                                       | Gaade                           | Get searching anywhere. Download<br>Microsoft Edge on your mobile device.<br>Option 1 Scan the QR code |        |      |       |         |    |
|                                       | Q                               |                                                                                                        |        |      |       |         |    |
|                                       | Google Search I'm Feeling Lucky | Option 2 Enter your email                                                                              |        |      |       |         |    |
|                                       |                                 | Microsoft Privacy Statement Send link Not now                                                          |        |      |       |         |    |
|                                       |                                 |                                                                                                        |        |      |       |         |    |
| Advertising Business How Search works | Carbon neutral since 2007       |                                                                                                        | Privat | cy 1 | ferms | Settin  | ĥ  |
| O Tupo here to search                 |                                 |                                                                                                        |        | 15 0 |       | 5:43 AM | l  |

#### **VPC Peering:**

Create another Virtual Network in another region.



Now create a VM in Virtual Network2.



Add Peering in Virtual Network1. Goto VirtualNetwork1 and click on Peerings. Add peering between both Vnets. As seen, Two peerings are created between 2 Vnets.

VN1->VN2

Virtual Network1-8hargaviNukala × + 🗧 ightarrow C 👔 portal.azure.com/#@bhargaviaqua04gmail.onmicrosoft.com/resource/subscriptions/49d571c4-94214773-8fdb-101fc91ba274/resourceGroup... 👁 🕃 🖻 🎓 🔣 🚺 🐞 : Microsoft Azure 🗵 🕫 Search resources, services, and docs (G+/) 🖂 🖟 🖉 🎯 🔗 bharg Home > VirtualNetwork1-8hargaviNukala VirtualNetwork1-BhargaviNukala | Peerings \* ···· × φ. 🔎 Search 🕂 Add 🔘 Refresh 🛛 📿 Sync Ø Connected devices 🔎 Filter by name... Peering status == all Subnets Name 🕰 Peering status Tu Peer 14 Gateway transit 14 × Bastion VN1-to-VN2 Vitual Network2-BhargaviNukala Disabled Updating DDoS protection 🚭 Firewall Microsoft Defender for Cloud Setwork manager DN5 servers Peerings 🕍 Service endpoints do Private endpoints Properties A Locks Monitoring Alerts

VN2->VN1

| itualNetwork2-BhargaviNukals × +                                           | )<br>hargaviagua04gmail.onmicrosoft.com/r                | esource/subscriptions/49d571c4-9421-47 | 73-8idb-101ic91ba274/resourceGroup • | S 10 4 10 10 10              |                         |
|----------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------|--------------------------------------|------------------------------|-------------------------|
| Microsoft Azure 🛈 🖉 Se                                                     | arch resources, services, and docs (G+/)                 |                                        | 🛛 G 🖉 🔿                              | ⑦ (국가 bhargavi.aqua)<br>Otiv | )4@gmail.<br>AT ONECTOR |
| e > Virtual networks > VitualNetwor<br>VitualNetwork2-B<br>Virtual network | <sup>rk2-8hargaviNukala</sup><br>ShargaviNukala   Peerin | igs ☆ …                                |                                      |                              | 1                       |
| P Search                                                                   | 🛪 🕂 Add 💟 Refresh 📿 Sj                                   | me                                     |                                      |                              |                         |
| 🖋 Connected devices                                                        | D Filter by name                                         | Poering status as all                  |                                      |                              |                         |
| Subnets                                                                    | Name 14                                                  | Peering status 14                      | Peer 1.                              | Gateway transit 1            |                         |
| Bastion                                                                    | VN2.to.vtN1                                              | Connected                              | VirtualNaturdd_DharaaviNukala        | Disabled                     |                         |
| DDoS protection                                                            |                                                          | and the state of                       | PRIME TO COMPANY OF STREET           | Construct                    |                         |
| Firewall Microsoft Defender for Cloud                                      |                                                          |                                        |                                      |                              |                         |
| Network manager                                                            |                                                          |                                        |                                      |                              |                         |
| DNS servers                                                                |                                                          |                                        |                                      |                              |                         |
| 18 Peerings                                                                |                                                          |                                        |                                      |                              |                         |
| Service endpoints                                                          |                                                          |                                        |                                      |                              |                         |
| ( Private endpoints                                                        |                                                          |                                        |                                      |                              |                         |
| III Properties                                                             |                                                          |                                        |                                      |                              |                         |
| 🔒 Locks                                                                    |                                                          |                                        |                                      |                              |                         |
| Monitoring                                                                 |                                                          |                                        |                                      |                              |                         |
| Alerts                                                                     |                                                          |                                        |                                      |                              |                         |

Now a peering is established and when you use private IP of VM of VN2 to connect from VM of VN1, you should be able to connect.

| shboard                           | For PubVM1                  |                                                        |                                            | TASKS                                                                  |
|-----------------------------------|-----------------------------|--------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------|
| al Server                         | Computer name               | PubVM1                                                 | Last installed updates                     | Never                                                                  |
| Servers<br>and Storage Services D | Workgroup                   | WORKGROUP                                              | Windows Update<br>Last checked for updates | Install updates automatically using Windows Update<br>Today at 5:58 AM |
|                                   | Microsoft Defender Firewall | Private: On                                            | Microsoft Defender Antivirus               | Real-Time Protection: On                                               |
|                                   | Remote management           | Enabled                                                | Feedback & Diagnostics                     | Settings                                                               |
|                                   | Remote Desktop              | Enabled                                                | IE Enhanced Security Configuration         | On                                                                     |
|                                   | NIC Teaming                 | Disabled                                               | Time zone                                  | (UTC) Coordinated Universal Time                                       |
|                                   | Operating system version    | Microsoft Windows Server 2022 Datacenter Azure Edition | Processors                                 | Intel(R) Xeon(R) Platinum 8272CL CPU @ 2.60GHz                         |
|                                   | Operating system version    | Microsoft Windows Server 2022 Datacenter Azure Edition | Processors                                 | Intel(R) Xeon(R) Flatinum 8272CL CPU @ 2.60GHz                         |
|                                   | hardware information        | Microsoft Corporation virtual Machine                  | Total dick reace                           | 142.45 GB                                                              |
|                                   | EVENTS                      |                                                        |                                            | TACKS                                                                  |
|                                   | Filter                      | ۹ (ii) • (ii) •                                        |                                            | (                                                                      |
|                                   | Server Name ID Sevent       | / Source Log Date at                                   | nd Time                                    |                                                                        |
|                                   | PubVM1 10016 Warnin         | g Microsoft-Windows-DistributedCOM System 12/26/2      | 2022 6:07:42 AM                            |                                                                        |
|                                   | D. 148.14 7034 5-11-1       | Manual Markey Contract Manual Contract 12/06/          | 1012 5.56 10 114                           |                                                                        |

**DNS:** Creation of a internal DNS server and Web server in 2 different subnets of same virtual network

Create a VM1 in Virtual network1->PubSubnet

| 📘 Microsoft account   Home 🛛 🗙 🗍 🌐 | RDS Management Console 🗙 🗍          | Generate and export certifical 🗴 🗍 🛕 Create a virtua      | I machine - Mic 🗙 🕺 VM1-VN   | 11 - Microsoft Azure 🗙 🛨 📀 📼 🖻                 | I × |
|------------------------------------|-------------------------------------|-----------------------------------------------------------|------------------------------|------------------------------------------------|-----|
| ← → C  ■ portal.azure.com/#@       | bhargaviaqua04gmail.onmicrosof      | t.com/resource/subscriptions/49d571c4-9421-4773-          | 8fdb-101fc91ba274/resourcegr | oup 🕶 년 1년 ☆ 🔣 🛸 🗊 🔲 (                         | ۰ 🚯 |
| E Microsoft Azure P Search         | resources, services, and docs (G+/) |                                                           | 2 G                          | 🖉 🐵 💿 🔊 bhargavi.aqua04@gm.<br>DEFAULT DIREC   | ail |
| Home → CreateVm-MicrosoftWindowsS  | erver:WindowsServer-202-202301      | 04183124   Overview >                                     |                              |                                                | ×   |
| Virtual machine                    |                                     |                                                           |                              |                                                |     |
| 오 Şearch 🥂 🕺                       | 🔊 Connect 🗸 ▷ Start 🔇               | 'Restart 🔲 Stop 🐹 Capture 📋 Delete 🔘                      | Refresh 🛛 🛄 Open in mobile 🗍 | 🗟 CLI / PS 🛛 🖗 Feedback                        |     |
| 📮 Overview                         | ∧ Essentials                        |                                                           |                              | ISON View                                      |     |
| Activity log                       | Becourse group (mous) + 67          | rePC. Bharawiki kala                                      | Departing outparts 1 W       | indows (Windows Easter 2022 Datacenter Ature E |     |
| Access control ((AM)               | Status : But                        | inina                                                     | Size St                      | andard D2s v3 /2 victure & GiB mamoryl         |     |
| 🔷 Tags                             | Location : Fas                      | etik)                                                     | Dublic ID address            | 145 58                                         |     |
| Diagnose and solve problems        | Subscription (move) : 47            | re-subscription 1                                         | Virtual network/subnet : Vi  | rtualNetwork1-BharpaviNukala/PubSubpet         |     |
| Cottings                           | Subscription ID : 490               | 1571c4-9421-4773-8fdb-101fc91ba274                        | DNS name : No                | ot configured                                  |     |
| A Natura dur a                     | Tags ( <u>edit</u> ) : <u>Clic</u>  | k here to add tags                                        |                              |                                                |     |
| x Networking                       |                                     |                                                           |                              |                                                |     |
| D' Lonnect                         | Properties Monitoring               | Capabilities (8) Recommendations Tutoria                  | ls                           |                                                |     |
| Windows Admin Center               |                                     |                                                           |                              |                                                |     |
| Disks                              | Virtual machine                     |                                                           | Retworking                   |                                                |     |
| 👎 Size                             | Computer name                       | VM1-VN1                                                   | Public IP address            | 40.80.145.58                                   |     |
| Microsoft Defender for Cloud       | Health state                        |                                                           | Public IP address ((Pv6)     |                                                |     |
| Advisor recommendations            | Operating system                    | Windows (Windows Server 2022 Datacenter Azure<br>Edition) | Private IP address           | 10.1.0.4                                       |     |
| a salahin a matakina               | Publisher                           | MicrosoftWindowsServer                                    | Private IP address (IPV6)    |                                                |     |
| Extensions + applications          | Offer                               | WindowsServer                                             | Virtual network/subnet       | VirtualNetwork1-BhargaviNukala/PubSubnet       |     |
| Continuous delivery                | Plan                                | 2022-datacenter-azure-edition                             | DNS name                     | configure                                      |     |

Connect to VM using Remote Desktop Connection. In server Manager, Add roles and features->Active Directory Domain Service.

| 🔚 Server Manager                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                   |                                        | - 5 ×                  |
|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------|
| Add Roles and Features Wizard                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | - 🗆                                                                                                                                                                                                                                                                                                                                               | × 🕲   🏲                                | Manage Tools View Help |
| Select server roles                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DESTINATION SERVI<br>VM1-VI                                                                                                                                                                                                                                                                                                                       | ER VI                                  |                        |
| Before You Begin<br>Installation Type<br>Server Selection<br>Server Roles<br>Features<br>AD DS<br>Confirmation<br>Results | Select one or more roles to install on the selected server.  Roles  Active Directory Certificate Services Active Directory Federation Services Active Directory Rights Management Services Active Directory Rights Management Services Device Health Attestation DHCP Server DNS Server Fax Se | Description<br>Active Directory Domain Services<br>(AD D5) stores information about<br>objects on the network and makes<br>this information available to users<br>and network administrators. AD D<br>uses domain controllers to give<br>network users access to permitted<br>resources anywhere on the networ<br>through a single logon process. | s s                                    | Hide                   |
|                                                                                                                           | C Previous     New     Events     Events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | s install Cancel                                                                                                                                                                                                                                                                                                                                  | Servers 1<br>hageability<br>Events     |                        |
|                                                                                                                           | Performance 1 Servic<br>BPA results Perfo<br>BPA r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | rmance<br>esuits                                                                                                                                                                                                                                                                                                                                  | Services<br>Performance<br>BPA results |                        |
|                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14/0022 1/13/04                                                                                                                                                                                                                                                                                                                                   | 1/4/0022 1/13 014                      | 4                      |

Create another Subnet in Virtual Network1 called WebSvrSubnet.

| Microsoft account   Home 🗙 🕴                                           | RDS Management Conso        | le 🗙 📑 Generat             | e and export certificate 🗙 | 🛕 Create a virtual machine | - Mic 🗙 🛕 VirtualNet  | work1-BhargaviNuk 🗙 【 | + 💿 🖻            | o x     |
|------------------------------------------------------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|-----------------------|-----------------------|------------------|---------|
| $\leftrightarrow$ $\rightarrow$ C $\hat{\mathbf{a}}$ portal.azure.com/ | #@bhargaviaqua04gmai        | l.onmicrosoft.com/reso     | ource/subscriptions/496    | 1571c4-9421-4773-8fdb-101  | fc91ba274/resourceGro | up • 🕒 🖻 🏠            | 🛛 🗱 🛤 🖬 🗖        | I 🍏 E   |
| 😑 Microsoft Azure 🔎 Sea                                                | rch resources, services, an | d dacs (G+/)               |                            |                            |                       | 👂 🐵 🛛 🕂               | bhargavi.aqua04@ | gmail 🙎 |
| Home > VirtualNetwork1-BhargaviN                                       | ukala                       |                            |                            |                            |                       |                       |                  |         |
| VirtualNetwork1-<br>Victual network                                    | BhargaviNuka                | l <mark>a</mark>   Subnets | ☆ …                        |                            |                       |                       |                  | ×       |
| P Search 🔹                                                             | + Subnet + C                | Sateway subnet 门 Re        | efresh 🥄 😽 Manage (        | users 📋 Delete             |                       |                       |                  |         |
| <ul> <li>Overview</li> </ul>                                           | •                           |                            |                            |                            |                       |                       |                  |         |
| Activity log                                                           | ~ Search subnets            |                            |                            |                            |                       |                       |                  |         |
| Access control (IAM)                                                   | Name †↓                     | IPv4 ↑↓                    | IPv6 ↑↓                    | Available IPs ↑↓           | Delegated to 斗        | Security group ↑↓     | Route table ↑↓   |         |
| 🗳 Tags                                                                 | PubSubnet                   | 10.1.0.0/24                | 8 <b>2</b> 5               | 250                        |                       | 51                    |                  |         |
| Diagnose and solve problems                                            | WebSvrSubnet                | 10.1.2.0/24                | 100                        | 251                        | ±1                    | -                     |                  |         |
| Settings                                                               | τ                           |                            |                            |                            |                       |                       |                  | P.      |
| Address space                                                          |                             |                            |                            |                            |                       |                       |                  |         |
| $\mathscr{O}$ Connected devices                                        |                             |                            |                            |                            |                       |                       |                  |         |
| 🐡 Subnets                                                              |                             |                            |                            |                            |                       |                       |                  |         |
| × Bastion                                                              |                             |                            |                            |                            |                       |                       |                  |         |
| ODoS protection                                                        |                             |                            |                            |                            |                       |                       |                  |         |
| 👄 Firewall                                                             |                             |                            |                            |                            |                       |                       |                  |         |
| 🗳 Microsoft Defender for Cloud                                         |                             |                            |                            |                            |                       |                       |                  |         |
| 🏠 Network manager                                                      |                             |                            |                            |                            |                       |                       |                  |         |
| DNS servers                                                            | <u>.</u>                    |                            |                            |                            |                       |                       |                  |         |

Create another VM in WebSvrSubnet

| Microsoft account   Home X 😑 I                                                                                       | RDS Management Console 🛛 🗙 🚺                                            | Generate and export certifice: X                                                                            | machine - Mic 🗙 🚺 VM-Web                                                                                                     | sserver - Microsoft A: × +                                                                                                                                |                                |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| ← → C ■ portal.azure.com/#@<br>■ Microsoft Azure P Search                                                            | phargaviaqua04gmail.onmicrosoft/<br>resources, services, and docs (G+/) | com/resource/subscriptions/49d5/1c4-9421-4/73-8                                                             | Idb-101tc91ba2/4/resourcegn                                                                                                  | oup 🗣 🕃 🖻 🛠 🚺 🛸                                                                                                                                           | qua04@gmail 🧶                  |
| Home > CreateVm-MicrosoftWindowsSe<br>VM-Webserver &<br>Virtual machine<br>Virtual machine<br>(%) Bearch             | rvecWindows5erver-202-20230104<br>☆ …<br>Ø Connect ~ ▷ Start 个          | 185257   Overview ><br>Restart 🔲 Stop 😥 Capture 💼 Delete 🖒 R                                                | efresh 🔒 Open in mobile 💈                                                                                                    | 통 CLI/PS 🔗 Feedback                                                                                                                                       | ×                              |
| Coverview  Activity log  Activity log  Access control (IAM)  Tags  Diagnose and solve problems  Settings  Networking |                                                                         | IRG-BharqaviNukala<br>ing<br>JS<br>I subscription 1<br>71c4-9421-4773-8fdb-101fc91ba274<br>here to add tags | Operating system : Wi<br>Size : Sti<br>Public IP address : 20<br>Virtual network/subnet : <u>Vir</u><br>DNS name : <u>Nr</u> | indows (Windows Server 2022 Datacenter<br>andard D2s v3 (2 vcpus, 8 GiB memory)<br>1232,190.114<br>tualNetwork1-BhargaviNukala/WebSvrSuł<br>at configured | JSON View<br>Azure E.,<br>bnet |
| 6 Connect<br>Windows Admin Center<br>2 Disks<br>5/2a                                                                 | Properties Monitoring                                                   | Capabilities (8) Recommendations Tutorials                                                                  | s           S         Networking           Public IP address         Public IP address                                       | 20,232,190,114                                                                                                                                            |                                |
| Microsoft Defender for Cloud     Advisor recommendations                                                             | Health state<br>Operating system                                        | Windows (Windows Server 2022 Datacenter Azure<br>Edition)                                                   | Public IP address (IPv6)<br>Private IP address<br>Private IP address (IPv6)                                                  | 10.1.2.4                                                                                                                                                  |                                |
| Extensions + applications     G. Continuous delivery                                                                 | Offer<br>Plan                                                           | Microsoftvin00WSServer<br>WindowsServer<br>2022-datacenter-azure-edition                                    | Virtual network/subnet<br>DNS name                                                                                           | VirtualNetwork1-BhargaviNukala/WebS<br>Configure                                                                                                          | vrSubnet                       |

Connect to VM-Webserver and install IIS server.

| Jachhoard          | WELCOME TO SE                   | RVER MANAGER                                                                                    |                                       |   |      |
|--------------------|---------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------|---|------|
| .ocal Server       |                                 |                                                                                                 |                                       |   |      |
| All Servers        | 🛓 Add Roles and Features Wizard | (                                                                                               | - 🗆 X                                 |   |      |
| File and Storage S | er                              |                                                                                                 |                                       |   |      |
|                    | Select server role              | 2                                                                                               | DESTINATION SERVER<br>VM-Webserver    |   |      |
|                    | Before You Begin                | Select one or more roles to install on the selected server.                                     |                                       |   |      |
|                    | Installation Type               | Roles                                                                                           | Description                           |   |      |
|                    | Server Selection                | Active Directory Certificate Services                                                           | Web Server (IIS) provides a reliable, |   |      |
|                    | Server Roles                    | Active Directory Domain Services     Active Directory Federation Services                       | application infrastructure.           |   |      |
|                    | Web Server Role (IIS)           | Active Directory Lightweight Directory Services     Active Directory Rights Management Services |                                       |   | Hide |
|                    | Role Services                   | Device Health Attestation                                                                       |                                       |   |      |
|                    | Confirmation                    | DNS Server                                                                                      |                                       |   |      |
|                    | Results                         | Fax Server                                                                                      |                                       |   |      |
|                    |                                 | Host Guardian Service                                                                           |                                       | 2 |      |
|                    |                                 | Network Controller                                                                              | 1                                     |   |      |
|                    |                                 | Network Policy and Access Services     Print and Document Services                              | _                                     |   |      |
|                    |                                 | Remote Access                                                                                   |                                       |   |      |
|                    |                                 | Volume Activation Services                                                                      |                                       |   |      |
|                    |                                 | Web Server (IIS)                                                                                |                                       |   |      |

Create a Default.html page and save it in C:/inetpub/wwwroot in VM-Webserver

| 🚡 Server Manager |                                                        |                            |                             |                            | 177         | s ×       |
|------------------|--------------------------------------------------------|----------------------------|-----------------------------|----------------------------|-------------|-----------|
| €@∙              | Server Manager + Dashboard                             |                            |                             | • @   🍢 M                  | anage Tools | View Help |
|                  |                                                        |                            |                             |                            |             |           |
| Dashboard        | I *Untitled - Notepad                                  |                            |                             | - 🗆 X                      |             |           |
| Local Serve      | File Edit Format View Help                             |                            |                             |                            |             |           |
| All Servers      | <h1>This is a web-server page created to test DNS</h1> |                            |                             | ~                          |             |           |
| File and Sto     |                                                        |                            |                             |                            |             |           |
| <b>(0</b> 115    |                                                        |                            |                             |                            |             | Hide      |
|                  |                                                        |                            |                             |                            | 1           |           |
|                  |                                                        |                            |                             | U ty                       |             |           |
|                  | 4                                                      | متنعد ر                    | Torray Milliod and American | >                          |             |           |
|                  | renormance                                             | Services En 1, Col 22      | Dervicea Windows (CRLF)     | DIPO                       |             |           |
|                  | BPA results                                            | Performance<br>BPA results | Performance<br>BPA results  | Performance<br>BPA results |             |           |
|                  |                                                        |                            |                             |                            |             |           |

Access Default.html from web browser using private IP of VM-Webserver

|              | L <sup>9</sup> 10.1 | 1.2.4/Default.html | × C Welcome to Microsoft Edge | ×   + |    |    |     |   | ō | × |
|--------------|---------------------|--------------------|-------------------------------|-------|----|----|-----|---|---|---|
| $\leftarrow$ | C                   | A Not secure       | 10.1.2.4/Default.html         |       | Aø | ់ខ | ¶_= | ٩ | ۲ |   |

This is a web-server page created to test DNS

Restart DNS VM and in Server Manager, click on Notifications on Top Flag button.

Click on"Promote this to domain controller" link



Select Add to new Forest-> give our Domain name like "CloudtoMe.com"

| Server Manager                                                                             | Server Manager •                                                                                                                                                                                                                        | Dashboard                                                                                                                                                                                 |                                                                                                     |                                   |   | • @   🍢 •                                                                                                           | lanage Tools | - <u>G</u> X |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------|---|---------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Dashboard     Local Serve     All Servers     All Servers     All Servers     File and Sto | Active Directory Domain Service<br>Deployment Configuration<br>Deployment Configuration<br>Domain Controller Options<br>ONS Options<br>Additional Options<br>Paths<br>Renterr Options<br>Preneguistes Check<br>Installittion<br>Results | s Configuration Wizard<br>iguration<br>Select the deployment ope<br>Add a domain controll<br>Add a new domain to a<br>Add a new forest<br>Specify the domain inform.<br>Root domain neme: | ration<br>r fo an existing domain<br>n existing forest<br>ation for this operation<br>CloudtoMe.com | - C X<br>TARGET SERVER<br>VM1-VN1 |   |                                                                                                                     |              | Hide         |
|                                                                                            | ВРИ                                                                                                                                                                                                                                     | More about deployment of<br>A results                                                                                                                                                     | Previous Next >                                                                                     | Install Cancel BPA results        | 1 | <ul> <li>All Servers</li> <li>Manageability<br/>Events</li> <li>Services<br/>Performance<br/>BPA results</li> </ul> | 1            | 151.014      |

Give password in Next screen and continue clicking Next and Install

| ©@•                                                                   | Server Manager •                                                                                                                                                                                       | Dashboard                                                                                                                                                                                                                                                                                        |                                                                                                                                                          |                                   |     | • 🞯   🍢 Mar                                                                      | uage Tools Vie | w Help |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----|----------------------------------------------------------------------------------|----------------|--------|
| Dashboard     Local Serve     All Servers     All Servers     All Sto | Active Directory Domain Service<br>Domain Controller<br>Deployment Configuration<br>Domain Controller Options<br>DNS Options<br>Additional Options<br>Rative Options<br>Prerequisites Check<br>results | s Configuration Wizard  Coptions Select functional level of the new Forest functional level: Domain functional level: Specify domain controller capabi Company Name System (DNS) Company Rate System (DNS) For Global Catalog (GC) Read only domain controller Type the Directory Services Resto | r forest and root domain<br>Windows Server 2016<br>Windows Server 2016<br>Windows Server 2016<br>illites<br>server<br>(RODC)<br>ore Mode (DSRM) pessword | - C ×<br>TARGET SERVER<br>VMI-VNI |     |                                                                                  |                | Hide   |
|                                                                       | BF4                                                                                                                                                                                                    | Password:<br>Confirm password:<br>More about domain controller op<br>cresults                                                                                                                                                                                                                    | phons      Previous Next >                                                                                                                               | Install Cancel<br>BPA result      | r 1 | All Servers<br>Manageability<br>Events<br>Services<br>Performance<br>BPA results | 1              |        |

Once this is configured, VM will Reboot.

Now, goto VirtualNetwork1->DNS servers, select Custom and give the Private IP address of VM1-VN1(DNS server)

| 😝 RDS Management Console 🛛 🗙   | 🚦 Generate and export certification X 🛕 VirtualNetwork1-BhargeviNuko X 🛕 VM1-VN1 - Microsoft Acure on X 🛛 Z' Worldpay: Create a Self-Signer X 🛨 💎 📼 🗖 💌 |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| ← → C 🕯 portal.azure.com       | n/#@bhargaviaqua04gmail.onmicrosoft.com/resource/subscriptions/49d571c4-9421-4773-8fdb-101fc91ba274/resourceGroup 🗪 ڬ 🖄 🐒 🚺 🐞 🗄                         |
| 😑 Microsoft Azure 🔎            | iearch resources services, and docs (G+/) E 🕼 🖉 🛞 ⊘ 🖓 bhargavi.aqua04@gmail 🧕                                                                           |
| Home > Virtual machines > VM1- | VN1 > VirtualNetwork1-BhargaviNukala<br>-BhargaviNukala   DNS servers * ··· ×                                                                           |
| 🔎 Search                       | «                                                                                                                                                       |
| Ø Connected devices            |                                                                                                                                                         |
| Subnets                        | virtual machines within this virtual network must be restarted to black the updated bins server settings.                                               |
| メ Bastion                      | DNS servers ①                                                                                                                                           |
| ODoS protection                | O Default (Azure: provided)                                                                                                                             |
| 🛖 Firewall                     | Custom                                                                                                                                                  |
| Microsoft Defender for Cloud   | IP Address                                                                                                                                              |
| 😚 Network manager              | 101.0.4                                                                                                                                                 |
| DNS servers                    | Add DNS server                                                                                                                                          |
| Peerings                       |                                                                                                                                                         |
| 🕍 Service endpoints            |                                                                                                                                                         |
| Private endpoints              |                                                                                                                                                         |
| Properties                     |                                                                                                                                                         |
| A Locks                        |                                                                                                                                                         |
| Monitoring                     |                                                                                                                                                         |
| Alerts                         | Save Cancel                                                                                                                                             |

#### Restart both VMs

Now on DNS server, goto Server Manager->Tools->DNS

| Server me                                   | anager - Local sei                                                                                                                                                                    | ver                                                                                                                                |                                   |                                                                                                     | Active Directory Administrative Center                                                                                                                                            |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dashboard                                   | For VM1-VN1                                                                                                                                                                           |                                                                                                                                    |                                   |                                                                                                     | Active Directory Domains and Trusts<br>Active Directory Module for Windows PowerShell                                                                                             |
| Local Server<br>All Servers<br>AD DS<br>DNS | Computer name<br>Domain                                                                                                                                                               | VM1-VN1<br>cloudtome.com                                                                                                           |                                   | Last installed updates N<br>Windows Update In<br>Last checked for updates N                         | Active Directory Sites and Services<br>Active Directory Users and Computers<br>ADSI Edit<br>Component Services                                                                    |
| File and Storage Services D                 | Microsoft Defender Firewall Private On<br>Remote management Enabled                                                                                                                   |                                                                                                                                    |                                   | Microsoft Defender Antivirus R<br>Feedback & Diagnostics Se<br>IF Enhanced Security Configuration O | Defragment and Optimize Drives<br>Disk Cleanup                                                                                                                                    |
|                                             | NIC Teaming<br>Ethernet                                                                                                                                                               | Disabled<br>IPv4 address assigned by DHCP, IPv6 enabled                                                                            |                                   | Time zone (U<br>Product ID 00                                                                       | DNS<br>Event Viewer                                                                                                                                                               |
|                                             | Operating system version<br>Hardware information                                                                                                                                      | Microsoft Windows Server 2022 Datacenter A<br>Microsoft Corporation Virtual Machine                                                | zure Edition                      | Processors In<br>Installed memory (RAM) 8<br>Total disk space 14                                    | Citop Policy Management<br>SCSI Initiator<br>Local Security Policy<br>Microsoft Azure Services<br>ODBC Data Sources (32-brt)<br>ODBC Data Sources (64-brt)<br>Performance Monitor |
|                                             | EVENTS<br>All events   43 total                                                                                                                                                       |                                                                                                                                    |                                   |                                                                                                     | Recavery Drive<br>Registry Editor<br>Resource Manitor                                                                                                                             |
|                                             | Filter                                                                                                                                                                                | • (ii) ▼ (ii) ▼                                                                                                                    |                                   |                                                                                                     | System Configuration                                                                                                                                                              |
|                                             | Server Name         ID         Severity           VM1-VN1         10016         Warnin-           VM1-VN1         6038         Warnin-           VM1-VN1         6438         Warnin- | Source     Microsoft-Windows-DistributedCOM     Microsoft-Windows-LSA     Microsoft-Windows-LSA     Microsoft-Windows-Time-Service | Log<br>System<br>System<br>System | Date and Time<br>1/4/2023 3/01/20 PM<br>1/4/2023 3/01/10 PM<br>1/4/2023 3/01/14 PM                  | system information<br>Task Scheduler<br>Windows Defender Firewall with Advanced Security<br>Windows Memory Diagnostic<br>Windows PowerShell                                       |

Goto VM1-VN1->Forward Lookup Zones->cloudtome.com

| File Action View Help                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                 | - L                                                                    |                                                      |                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                      |      |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| A Interventional Forwards     Conditional Forwards | Image: Second | Type<br>Start of Authority (SOA)<br>Name Server (NS)<br>Host (A)<br>Host (A)    | Data .<br>[19], vm1-vn1.cloudtome<br>vm1-vn1.cloudtome.com.<br>10.1.04 | Timestam<br>static<br>static<br>1/4/2023 :<br>static | Installed updates<br>Enclows Updates<br>at checked for updates<br>Increaseft Defender Antivirus<br>aedback & Diagnostics<br>Enhanced Security Configuration<br>inite zone<br>roduct ID<br>Tocessors<br>stalled memory (RAM)<br>atal disk space | Tz<br>Never<br>Install updates automatically using Windows Update<br>Never<br>Real-Time Protection: On<br>Settings<br>On<br>(UTC) Continated Universal Time<br>00446-90000-00000-AA395 (activated)<br>Intel(R) Xeon(R) CPU E5-2673 v4 @ 2.30GHz<br>8 68<br>142.45 GB | e.   |
| < <u>&gt;</u>                                      | Carler Fitter<br>Fitter<br>Server Name ID Severity<br>VM1-VN1 10016 Warning<br>VM1-VN1 6038 Warning<br>VM1-VN1 6038 Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | P (a) ▼ (a)<br>Source<br>Microsoft-Windows-Datribs<br>Microsoft-Windows-Datribs | J                                                                      | Dat<br>m 1/4,<br>m 1/4,                              | e and Time<br>/2023 3:01:20 PM<br>/2023 3:01:10 PM<br>/2023 3:01:40 PM                                                                                                                                                                         |                                                                                                                                                                                                                                                                      | ASKS |
Right click and Add a new host entry. Give the **Private** IP address of VM-Webserver

| Ta Servi | er Manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                    |                                                                                |                                                     |                                                                                                                                                                                                                                              | 5                                                                                                                                                                                                                                                           | - 5                 | 8        |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------|
| E        | B UNS Manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                    | - 0                                                                            | ×                                                   |                                                                                                                                                                                                                                              | • 🕝   🚩 Manage Tools                                                                                                                                                                                                                                        | View He             | -lp<br>^ |
|          | ONS     O | New Host         X           Name (uses parent domain name fblank):         Web-server           Fully qualified domain name (FQDN):         Web-server           Fully qualified domain name (FQDN):         Web-server           IP address:         10.12.4           Create associated pointer (PTR) record         Add Host           Add Host         Cancel | sta<br>91. vm I - vn I.cloudtome<br>n1 - vn I.cloudtome.com.<br>1.0.4<br>1.0.4 | Timestam<br>static<br>static<br>1/4/2023,<br>static | Int installed updates<br>Indows Update<br>st checked for updates<br>Icrosoft Defender Antivirus<br>rediack: & Diagnostics<br>Enhanced Security Configuration<br>me zone<br>roduct ID<br>rocessors<br>stalled memory (RAM)<br>stal disk space | Never<br>Install updates automatically using Windows Up<br>Never<br>Real-Time Protection: On<br>Settings<br>On<br>(UTC) Coordinated Universal Time<br>00446-90000-00000-AAS95 (activated)<br>Intel(R) Xeon(R) CPU E5-2673 v4 @ 2.30GHz<br>8 GB<br>142.45 GB | TASKS               |          |
|          | د ،                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <                                                                                                                                                                                                                                                                                                                                                                  |                                                                                | >                                                   | 7                                                                                                                                                                                                                                            | 3                                                                                                                                                                                                                                                           | TASKS 🔻             |          |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Filter <b>P</b> (1) • (1) •                                                                                                                                                                                                                                                                                                                                        | e.                                                                             |                                                     | 1                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                             | ۲                   |          |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Server Name         ID         Seventy         Source           VM1-VN1         10016         Warning         Microsoft-Windows-Distributed           VM1-VN1         6038         Warning         Microsoft-Windows-LSA           VM1-VN1         144         Warning         Microsoft-Windows-Time-Service                                                      | Log<br>COM Syster<br>Syster<br>e Syster                                        | Dat<br>n 1/4/<br>n 1/4/<br>n 1/4/                   | e and Time<br>/2023 3:01:20 PM<br>/2023 3:01:10 PM<br>/2023 3:01:04 PM                                                                                                                                                                       |                                                                                                                                                                                                                                                             | ~                   | v        |
|          | ✓ Type here to search                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>H L</b>                                                                                                                                                                                                                                                                                                                                                         |                                                                                |                                                     |                                                                                                                                                                                                                                              | € 4 <mark>×</mark>                                                                                                                                                                                                                                          | 3:11 PM<br>1/4/2023 | 1        |

This means we are configuring the Webserver IP on DNS server.

Now take the fully qualified name from this Host entry like

web-server.cloudtome.com/Default.html and access it from browser of DNS server.

|   | 0 | web-server.cloudtome.com/Defs X | +                                               |   | 7. <del>5</del> | 0 | ×    |
|---|---|---------------------------------|-------------------------------------------------|---|-----------------|---|------|
| 4 | С | A Not secure   web-serv         | ver.cloudtome.com/Detault.html A <sup>N</sup> 🟠 | € | Ē               | 8 | 1000 |

This is a web-server page created to test DNS

🛨 🔎 Type here to search

🛱 💾 💽

Ca 🕼 3:17 PM

This shows that internal DNS server is configured to access Webserver page within the same virtual network.

## **Private DNS Zones:**

Change the configuration of VirtualNetwork1->DNS servers to Default



## Reboot both VMs.

Goto Private DNS Zones->Create->Name:cloudtome.com

|                                                                                                                                                                | Search resources, services, and docs (G+/)                                                                                                                              |                                                                                                                  | Þ | ] ₽ | ¢ ( | 0 | R | bharga | vi.aqua040<br>DEFAULT | @gmail<br>DIRECTOR |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---|-----|-----|---|---|--------|-----------------------|--------------------|
| ome > Private DN5 zones >                                                                                                                                      |                                                                                                                                                                         |                                                                                                                  |   |     |     |   |   |        |                       |                    |
| reate Private DNS :                                                                                                                                            | zone                                                                                                                                                                    |                                                                                                                  |   |     |     |   |   |        |                       | ŝ                  |
|                                                                                                                                                                |                                                                                                                                                                         |                                                                                                                  |   |     |     |   |   |        |                       |                    |
| lasics Tags Review + creats                                                                                                                                    | -<br>-                                                                                                                                                                  |                                                                                                                  |   |     |     |   |   |        |                       |                    |
| <ul> <li>Private DNS zone provides name n<br/>initial networks that it is linked to an<br/>iontoso.com and then create DNS is<br/>virtual networks.</li> </ul> | esolution services within virtual networks. A Private D<br>nd can't be accessed over internet. For example you o<br>conds like www.contoso.com in this zone. You can th | ONS zone is accessible only from the<br>can create a Private DNS zone named<br>en link the zone to a one or more |   |     |     |   |   |        |                       |                    |
| Project details                                                                                                                                                |                                                                                                                                                                         |                                                                                                                  |   |     |     |   |   |        |                       |                    |
|                                                                                                                                                                |                                                                                                                                                                         |                                                                                                                  |   |     |     |   |   |        |                       |                    |
| elect the subscription to manage d<br>our resources.                                                                                                           | eployed resources and costs. Use resource groups like                                                                                                                   | e folders to organize and manage all                                                                             |   |     |     |   |   |        |                       |                    |
| elect the subscription to manage d<br>our resources.<br>subscription *                                                                                         | eployed resources and costs. Use resource groups like                                                                                                                   | e folders to organize and manage all                                                                             |   |     |     |   |   |        |                       |                    |
| Select the subscription to manage d<br>rour resources.<br>iubscription *<br>Resource group *                                                                   | eployed resources and costs. Use resource groups like<br>Azure subscription 1<br>AzureRG-BhargaviNukala                                                                 | e folders to organize and manage all                                                                             |   |     |     |   |   |        |                       |                    |
| Select the subscription to manage d<br>your resources.<br>Subscription *<br>Resource group *                                                                   | eployed resources and costs. Use resource groups like<br>Azure subscription 1<br>AzureRG-BhargaviNukala<br>Create new                                                   | e folders to organize and manage all                                                                             |   |     |     |   |   |        |                       |                    |
| elect the subscription to manage d<br>our resources.<br>ubscription *<br>Resource group *<br>instance details                                                  | eployed resources and costs. Use resource groups like<br>Azure subscription 1<br>AzureRG-BhargaviNukala<br>Create new.                                                  | e folders to organize and manage all                                                                             |   |     |     |   |   |        |                       |                    |
| ielect the subscription to manage d<br>your resources.<br>iubscription *<br>Resource group *<br>Instance details<br>vame * ②                                   | eployed resources and costs. Use resource groups like Azure subscription 1 AzureRG-BhargaviNukala Create new cloudtome.com                                              | e folders to organize and manage all                                                                             |   |     |     |   |   |        |                       |                    |
| Select the subscription to manage d<br>your resources.<br>Subscription *<br>Resource group *<br>Instance details<br>Vame * ③<br>Vame * ④                       | eployed resources and costs. Use resource groups like Azure subscription 1 AzureRG-BhargaviNukala Create new Cloudtome.com East US.                                     | e folders to organize and manage all                                                                             |   |     |     |   |   |        |                       |                    |

## In Private DNS Zone->Virtual network links->Add

|                                                                                                                                                                                     |  | 4Q | e . |  | bhargavi | DEFAULT D | gmail. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|-----|--|----------|-----------|--------|
| ome. > NoMarketplace-20230104215409   Overview. > cloudtome.com   Virtual network links. >                                                                                          |  |    |     |  |          |           |        |
| Add virtual network link                                                                                                                                                            |  |    |     |  |          |           | >      |
| nk name *                                                                                                                                                                           |  |    |     |  |          |           |        |
| Virtual-Link2 🗸                                                                                                                                                                     |  |    |     |  |          |           |        |
| itual network details                                                                                                                                                               |  |    |     |  |          |           |        |
| Ony virtual networks with Recourse Manager deploystent model are supported for linking with Private DNS zonec.     Virtual networks with Cleask deployment model are not supported. |  |    |     |  |          |           |        |
| I know the resource to of wintual network.                                                                                                                                          |  |    |     |  |          |           |        |
| Azure subscription 1                                                                                                                                                                |  |    |     |  |          |           |        |
|                                                                                                                                                                                     |  |    |     |  |          |           |        |
| VirtualNetwork3-BhargaviNukala (AzureRG-BhargaviNukala)                                                                                                                             |  |    |     |  |          |           |        |
| enfiguration<br>a Enable auto registration ()                                                                                                                                       |  |    |     |  |          |           |        |
|                                                                                                                                                                                     |  |    |     |  |          |           |        |
|                                                                                                                                                                                     |  |    |     |  |          |           |        |
|                                                                                                                                                                                     |  |    |     |  |          |           |        |

After creating a virtual network link, click on Overview and we can see 2 entries with vm1-vn1 and vm-webserver created. This shows that websever is linked to our private DNS Zone and Azure acts as a DNS server here.

| 🗏 Microsoft Azure 🤌                                                                                                             | Search resources, services, and doc                                                                                                         | s (G+/)                                                                                                                             |                                                               | E 6 0 0                                                                                                                                                                                                                                                      | k bhargavi.aqua04@                                       | gmail<br>RECTORY |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------|
| Home > NoMarketplace-2023010 Cloudtome.com Private DNS zone                                                                     | 4215403   Overview ><br>☆ ☆ …                                                                                                               | T Delete and 2                                                                                                                      | Polosh                                                        |                                                                                                                                                                                                                                                              |                                                          | ×                |
| Overview                                                                                                                        | Essentials                                                                                                                                  | we a E peleretorie (                                                                                                                | / Neifean                                                     |                                                                                                                                                                                                                                                              | 15                                                       | ON View          |
| Activity log                                                                                                                    | Resource group (move) :                                                                                                                     | azurerg onargavinukaja                                                                                                              |                                                               |                                                                                                                                                                                                                                                              |                                                          |                  |
| <ul> <li>Access control (IAM)</li> <li>Tags</li> <li>Ø Diagnose and solve problems</li> <li>Settings</li> </ul>                 | Subscription (move) :<br>Subscription ID :<br>Tags (edit) :<br>You can search for record                                                    | Azure subscription 1<br>49d571c4-9421-4773-8fcb-1<br><u>Click here to add fags</u><br>d sets that have been loaded                  | 01fc91ba274<br>on this page. If you don'                      | t see what you're looking for, you can try scrolling to allow more                                                                                                                                                                                           | record sets to load.                                     |                  |
| Access control (IAM) Tags Diagnose and solve problems Settings Virtual network links                                            | Subscription (move) :<br>Subscription ID :<br>Tags (edit) :<br>You can search for record<br>Search record sets:<br>Name                     | Azure subscription 1<br>49d571c4-9421-4773-8tdb-1<br><u>Click here to add tags</u><br>d sets that have been loaded<br>Type          | 01fc91ba274<br>on this page. If you don'<br>TTL               | t see what you're looking for, you can try scrolling to allow more<br>Value                                                                                                                                                                                  | record sets to load.<br>Auto registered                  | 1                |
| Access control (IAM)  Tags  Diagnose and solve problems Settings  Virtual network links  Properties  Locks  Monitoring  Alerts  | Subscription (move) :<br>Subscription ID :<br>Tags (edit) :<br>You can search for record<br>Search record sets<br>Name                      | Acure subscription 1<br>49d571c4-9421-4773-8tdb-1<br><u>Click here to add tags</u><br>d sets that have been loaded i<br>Type<br>SOA | 01fc91bs274<br>on this page. If you don't<br>TTL<br>3600      | t see what you're looking for, you can try scrolling to allow more<br>Value<br>Email: azureprivatedns-host.microsoft.com<br>Host: azureprivatedns.net<br>Refresh: 3600<br>Retry: 300<br>Expire: 2419200<br>Minimum TTL: 10<br>Scrial number: 1               | record sets to load.<br>Auto registered<br>Folse         | i                |
| Access control (IAM) Tags Diagnose and solve problems Settings Virtual network links Properties Locks Monitoring Alerts Metrics | Subscription (move) :<br>Subscription ID :<br>Tags (edit) :<br>You can search for record<br>Search record sets<br>Name<br>@<br>vm-webserver | Azure subscription 1<br>49d571c4-9421-4773-8tdb-1<br><u>Click here to add tags</u><br>d sets that have been loaded<br>Type<br>SOA   | 01fc91bs274<br>on this page. If you don'<br>TTL<br>3600<br>10 | t see what you're looking for, you can try scrolling to allow more<br>Value<br>Email: azureprivatedns-host.microsoft.com<br>Host: azureprivatedns.net<br>Refresh: 8600<br>Refresh: 8600<br>Expire: 2419200<br>Minimum TTU: 10<br>Serial number: 1<br>10.1.24 | record sets to load.<br>Auto registered<br>False<br>True |                  |

Create another VirtualNetwork2 and create a VM in that Vnet

| Microsoft Azure                                                                 | rch resources services and docs (G+/)                                                                                | 🕞 🕞 🧔 🕥 🗊 bhargavi.aqua04@gmail.                                  |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| ime ⊃ CreateVm-MicrosoftWindows<br>VM2-VN2 & ☆<br>Virtuel machine<br>© Bearch « | sServer,WindowsServer-202-20230104223014 Overview ><br><br>& Connect ~ > Start C Restart 🔲 Stop 🕱 Capture 💼 Delete C | ) Refresh 📱 Open in mobile. 🗟 CLI / PS 🔗 Feedback                 |
| Overview                                                                        | 🛕 VM2-VN2 virtual machine agent status is not ready. Troubleshoot the issue →                                        |                                                                   |
| Activity log                                                                    |                                                                                                                      |                                                                   |
| Access control (IAM)                                                            |                                                                                                                      | ISON View                                                         |
| Tags                                                                            | Resource group (move) : AzureVN-BhargaviNukala                                                                       | Operating system : Windows                                        |
| Diagnose and solve problems                                                     | Status / Running                                                                                                     | Size : Standard D2s v3 (2 vcpus, 8 GiB memory)                    |
| tings                                                                           | Location (East Asia                                                                                                  | Public IP address : 20.205.41.41                                  |
| Networking                                                                      | Subscription (move) : Azure subscription 1                                                                           | Virtual network/subnet : Vitual Network2-BhargaviNukala/PubSubnet |
| Consect                                                                         | Subscription ID ; 49d571c4-9421-4773-8fdb-101fc91ba274                                                               | DNS name 1 Not configured                                         |
| Windows Admin Conter                                                            | Tags (edit) 1 Click here to add tags                                                                                 |                                                                   |
| Nicker                                                                          | Description Manhanan Constitution (2) Description Advisory Take                                                      |                                                                   |
| LASK5                                                                           | Properties Monitoring Capacinties (b) Recommendations futo                                                           | nais                                                              |
| Size                                                                            | 📮 Virtual machine                                                                                                    | S Networking                                                      |
| Microsoft Detender for Cloud                                                    | Computer name VM2-VN2                                                                                                | Public IP address 20.205.41.41                                    |
| Advisor recommendations                                                         | Health state                                                                                                         | Public (P address (IPv6)                                          |
|                                                                                 |                                                                                                                      |                                                                   |

Goto Private DNS Zone cloudtome.com->add another virtual network link for this VirtualNetwork2

| 🔋 RDS Management Console 🛛 🗙 T貫 Generate and export certificals 🗙 🚺 Add virtual network link - Mic 🕉                                                                                | Home - Microsoft Az     | ure X         | Z* World | ipay: Cre | ste a Sel | f-Signel X | ÷    | - (      | ~) <u>-</u> | 0       | * |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|----------|-----------|-----------|------------|------|----------|-------------|---------|---|
| ← → C 🖉 portaLazure.com/#@bhargavlaqua04gmail.onmicrosoft.com/resource/subscriptions/4                                                                                              | 9d571c4-9421-4773-8/db- | 101fc91ba274/ | resource | group     | 04        | 6          | ☆ 🚺  | * 1      | =J [        | 6       | 1 |
| Microsoft Azure     P Search resources, services, and docs (G+/)                                                                                                                    |                         |               | e 🖗      | Q.        | ۲         | 0 A        | i bh | argavi.a | qua04@      | gmail   | - |
| Home > NoMarketplace-20230104215409   Overview > cloudtome.com   Virtual network links >                                                                                            |                         |               |          |           |           |            |      |          |             |         |   |
| Add virtual network link ····                                                                                                                                                       |                         |               |          |           |           |            |      |          |             | >       | < |
| Link name *                                                                                                                                                                         |                         |               |          |           |           |            |      |          |             |         |   |
| virtual-link2                                                                                                                                                                       | 4                       |               |          |           |           |            |      |          |             |         |   |
| Virtual hetwork details                                                                                                                                                             |                         |               |          |           |           |            |      |          |             |         |   |
| Only virtual networks with Resource Manager deployment model are supported for linking with Private DNS zones.<br>Virtual networks with Classic deployment model are not supported. |                         |               |          |           |           |            |      |          |             |         |   |
| I know the resource ID of virtual network ③                                                                                                                                         |                         |               |          |           |           |            |      |          |             |         |   |
| Subscription * ①                                                                                                                                                                    |                         |               |          |           |           |            |      |          |             |         |   |
| Azure subscription 1                                                                                                                                                                | $\sim$                  |               |          |           |           |            |      |          |             |         |   |
| Virtual network *                                                                                                                                                                   |                         |               |          |           |           |            |      |          |             |         |   |
| VitualNefwork2-BhargaviNukala (AzureVN-BhargaviNukala)                                                                                                                              | $\sim$                  |               |          |           |           |            |      |          |             |         |   |
| Configuration                                                                                                                                                                       |                         |               |          |           |           |            |      |          |             |         |   |
| Enable auto registration ①                                                                                                                                                          |                         |               |          |           |           |            |      |          |             |         |   |
|                                                                                                                                                                                     |                         |               |          |           |           |            |      |          |             |         |   |
|                                                                                                                                                                                     |                         |               |          |           |           |            |      |          |             |         |   |
|                                                                                                                                                                                     |                         |               |          |           |           |            |      |          |             |         |   |
| OK                                                                                                                                                                                  |                         |               |          |           |           |            |      |          |             |         |   |
|                                                                                                                                                                                     | 8                       |               |          |           |           |            |      |          | tar e l     | 10/26 0 |   |

|                                                                     |                                                            | j.          |                                | ) ⑦ 슈) Dhargavi.aquat<br>DEFAI | M@gmail<br>ut directory |
|---------------------------------------------------------------------|------------------------------------------------------------|-------------|--------------------------------|--------------------------------|-------------------------|
| me > NoMarketplace-20230104:<br>cloudtome.com  <br>Private DNS zone | 215409   Overview > cloudtome.com<br>Virtual network links | *           |                                |                                | 3                       |
| Search                                                              | ∝ 🕂 Add 💟 Refresh                                          |             |                                |                                |                         |
| Overview                                                            | Search virtual network links                               |             |                                |                                |                         |
| Activity log                                                        | Link Name                                                  | Link status | Virtual network                | Auto-Registration              |                         |
| Access control (IAM)                                                | virtual-link1                                              | Completed   | VirtualNetwork1-EhargaviNukala | Enabled                        |                         |
| Tags                                                                | virtual-link2                                              | Completed   | VitualNetwork2-BhargaviNukala  | Enabled                        | 3                       |
| Diagnose and solve problems                                         |                                                            |             |                                |                                |                         |
| tings                                                               |                                                            |             |                                |                                |                         |
| Virtual network links                                               |                                                            |             |                                |                                |                         |
| Properties                                                          |                                                            |             |                                |                                |                         |
| Locks                                                               |                                                            |             |                                |                                |                         |
| nitoring                                                            |                                                            |             |                                |                                |                         |
|                                                                     |                                                            |             |                                |                                |                         |
| Alerts                                                              |                                                            |             |                                |                                |                         |
| Alerts<br>Metrics                                                   |                                                            |             |                                |                                |                         |

Create a Vnet Peering between VirtualNetwork1 and VirtualNetwork2

| Microsoft Azure                          | earch resources, services, and docs (G $\tau/j$ |                       | 📃 🖸 🖓 🤅                       | ) 🖓 🖗 bhargavi.a  | qua04@gmail<br>DEFAULT DIRECTORY |
|------------------------------------------|-------------------------------------------------|-----------------------|-------------------------------|-------------------|----------------------------------|
| VirtualNetwork1-Bhargavi                 | Nukala<br>-BhargaviNukala   Peer                | rings 🕁 …             |                               |                   | 3                                |
| Firewall<br>Microsoft Defender for Cloud | P Filter by name     Name 1:                    | Peering status == all | Pror 1.                       | Gateway transit ጎ |                                  |
| Network manager<br>DNS servers           | VN1-to-VN2                                      | Connected             | VitualNetwork2-BhargaviNukala | Disabled          |                                  |
| Peerings                                 |                                                 |                       |                               |                   |                                  |
| Service endpoints                        | 1                                               |                       |                               |                   |                                  |
| Private endpoints                        |                                                 |                       |                               |                   |                                  |
| Properties                               |                                                 |                       |                               |                   |                                  |
| Locks                                    |                                                 |                       |                               |                   |                                  |
| nitoring                                 |                                                 |                       |                               |                   |                                  |
| Alerts                                   |                                                 |                       |                               |                   |                                  |
|                                          |                                                 |                       |                               |                   |                                  |
| Metrics                                  |                                                 |                       |                               |                   |                                  |
| Metrics<br>Diagnostic settings           |                                                 |                       |                               |                   |                                  |

Now logon to VM2-VN2 machine and try to access web-server.cloudtome.com/Default.html