Name: Lakshmi Bhargavi Nukala

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 Attach a volume to an instance to use it as you would a regular physical hard disk drive.	
	Basic details	
	Volume ID Vol-00ba4fbad38745da3 (Extra Volume) Availability Zone ap-northeast-1c Instance Info	
	Q ed. i-050a424927fc315f3 (Lakshmi Bhargavi) (running)	
	Cancel Attach volume	

4. Creating a snapshot from the above created volume

Crea	ite snapshot EC2 Man	iagem × +							(*	
\rightarrow	C 🔒 ap-nort	theast-1.console.aws.amazon.com/ec2/home?region	n=ap-north	east-1#Create	eSnapshot:			ß	A 🖸	*	🖬 🍈 🗄
aws	Services	Q Search for services, features, blogs, docs, and mo	we		[Alt+S]		D	\$ 0	Tokyo 🔻	bh	argaviAWS 🔹
Ŧ	Create a point-in snapshots from a instance.	napshot info -time snapshot of an EBS volume and use it as a b an individual volume, or you can create multi-volum settings	aseline for ne snapsh	new volumes ots from all o	s or for data backup f the volumes attacl	. You can create hed to an					Ô
	Resource type	e Info									L
	Select a volu	ume 03a4aeabb26		ishets from an							
	vol-00ba4fb Extra Volume	ad38745da3									
	vol-00ba4fb	ad38745da3		C							
	Description Add a descriptio	on for your snapshot.									
	Creating a si	napshot from Extra Volume									
	255 characters r Encryption	maximum 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 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				
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inits istances istance New istance Types aunch Templates	AMI ID: ami-059	2e77a438c8f8ac (AMI of Apac	= hePHP)		© ×
innus Istances Istance Types aunch Templates pot Requests Sugar Elsor	AMI ID: ami-059 Details Permiss	2e77a438c8f8ac (AMI of Apac sions Storage Tags	= hePHP)		© ×
stances stances Mean stance Types unch Templates toot Requests wings Plans seaned Jestances	AMI ID: ami-059 Details Permiss	2e77a438c8f8ac (AMI of Apac sions Storage Tags	hePHP) =	Root device t	© ×
stances stances New stance Types unch Templates tot Requests vings Plans served Instances New	AMI ID: ami-059 Details Permiss	2e77a438c8f8ac (AMI of Apac sions Storage Tags (mage type machine	hePHP) = Platform details Linux/UNIX	Root device ty EBS	⊗ × ype
stances stances New stance Types unch Templates bot Requests wings Plans searved Instances New edicated Hosts	AMI ID: ami-059 Details Permiss AMI ID D ami-0592e77a438c8 Ami-0592e77a438c8	2e77a438c8f8ac (AMI of Apac sions Storage Tags Image type machine f8ac (AMI of	hePHP) = Platform details Linux/UNIX	Root device ty EBS	© × ype
stances stances New stance Types uunch Templates not Requests wings Plans searved Instances New edicated Hosts apacity Reservations	AMI ID: ami-059 Details Permiss AMI ID D ami-0592e77a438c8 ApachePHP)	2e77a438c8f8ac (AMI of Apac sions Storage Tags Image type machine f8ac (AMI of	hePHP) = Platform details Linux/UNIX	Root device ty EBS	© × ype
stances stances New stance Types uunch Templates not Requests wings Plans eserved Instances New edicated Hosts apacity Reservations hages	AMI ID: ami-059 Details Permiss AMI ID D ami-0592e77a438c8 ApachePHP AMI name	2e77a438c8f8ac (AMI of Apac sions Storage Tags Image type machine f8ac (AMI of	hePHP) = Platform details Linux/UNIX Architecture	Root device ty EBS Usage operati	© × 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	
 Application and OS Images (Amazon Machine Image) Info An AMI is a template that contains the software configuration (operating system, applicat launch your instance. Search or Brewse for AMIs If you don't see what you are looking for 	tion server, and applications) required to below	Software Image (AMI) ApachePHP-Image	-
Q, Search our full catalog including 1000s of opplication and OS images		Virtual server type (instance type) t2.micro 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) t2.micro Firewall (security group) New security group 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) t2.micro Firewall (security group) New security group Storage (volumes) 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, Browse more AMIs	Virtual server type (instance type) t2.micro Firewall (security group) New security group Storage (volumes) 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 Browse more AMIs Including AMIs from AWS, Marketplace and 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 Browse more AMIs Including AMIs from AWS, Marketplace and the Community ENA Enabled	Cancel	

8. Instance availability

New EC2 Experience Tel is what you one Yee is you one Yee	Alarm statu No alarms	© us + +
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 1 No alarms 1 No alarms	us + +
Events Name v Instance 10 Instance state v Instance type v Status check Tags BhargaviNukala-AMI Instance i-0b012bbeb73e03088	Alarm stati No alarms No alarms	us + +
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 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 . X
\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 T
root01p	172-31-4-63	Ir# sudo su Ir#\$ ∎									
i-0b01 PublicIP	12bbeb73e0 %: 54.65.10.104	3088 (BhargaviNukala-AMI Instance) PrivatelPs: 172.31.4.61)								×
Feedback	c Looking for l	anguage selection? Find it in the new Unified Settings [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 e	וו
5 0	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 Q vpc-0497329	99863a13d	48		>	<					-
VPC into Q vpc-0497329 Inbound rules Type Info	99863a13d	48 Protocol Info	Port range info	Source info	K	Description	- optional Info			
VPC info Q vpc-0497329 Inbound rules Type info SSH	99863a13d	48 Protocol Info TCP	Port range Info 22	Source Info	<	Description	- optional Info		Dele	
VPC info Q vpc-0497329 Inbound rules Type info SSH	99863a13d- i Info	48 Protocol Info TCP	Port range Info 22	Source Info	< Q. 0.0.0.0/0 X	Description	- optional Info		Dele te	
VPC info Q. vpc-0497329 Inbound rules Type info SSH HTTP	99863a13d i Info	48 Protocol Info TCP	Port range Info 22 80	Source Info	< Q Q	Description	- optional Info		Dele te 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 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, Velodiová: 8 Japache2 (conf.d/20-acendenii ini, Velodiphi) 5 Japache2 (conf.d/20-4typia ini, Velodiová: 8 Japache2 (conf.d/20-acendenii ini, Velodiphi) 5 Japache2 (conf.d/20-4typia ini, Velodiphi) 5 Japache2 (conf.d/20-4typia ini, Velodiphi) 1 Japache2 (conf.d/20-acent, ini, Velodiphi) 5 Japache2 (conf.d/20-4typia ini, Velodiphi) 5 Japache2 (conf.d/20-4typia ini, Velodiphi) 1 Japache2 (conf.d/20-4cent, ini, Velodiphi) 5 Japache2 (conf.d/20-4typia) 1
PHP API	20210902
PHP Extension	20210902
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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, Velicibip8: Haaache2/conf.d20-searcheaim: (Netophy%) Haashe2/conf.d20-spot.ini, Velicibip8: Haaache2/conf.d20-searche2/conf.d20-file; Haashe2/conf.d20-file; Maache2/conf.d20- file; Molini, Velicibip8: Haaache2/conf.d20-file; Mi, Velicibip8: Haaache2/conf.d20-abit.ini, Velicibip8: Haaache2/conf.d20- 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, Velicibip8: Haaache2/conf.d20-searchiaini, Velicibip8: Haaache2/conf.d20-shroob.ini, Velicibip8: Haaache2/conf.d20-searchiaini, Velicibip8: Haaache2/conf.d20-system.ini, Velicibip8: Haaache2/conf.d20-searchiaini, Velicibip8: Haaache2/conf.d20-system.ini, Velicibip8: Haaache2/conf.d20-searchiaini, Nelicibip8: Haaache2/conf.d20-system.ini, Velicibip8: Haaache2/conf.d20-searchiaini, Nelicibip8: Haaache2/conf.d20-system.ini, 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]			N 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	 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		 ·						-	
nternet cateways	Select a VPC above						-	-	
aress-only internet									
jateways									
ateways 'arrier gateways									
gateways Carrier gateways DHCP Option Sets									
gateways Carrier gateways DHCP Option Sets 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	
Select a VPC - rtb-04ffd3b0025696ac8 rtb-04ffd3b0025696ac8 - VPC VPC-BN-PrvRT VP	ilter by VPC:	0 -	rt	b-079d4cda1c6f0ffc9		-	(7)	Yes	vpc-04973299	861
Image: Private cloud	Select a VPC 🔹	-	rt	b-04ffd3b9025696ac8			-	Yes	vpc-01dd8f16d	dd9
VPC-8N-PubRT rtb-09061661968136049 subnet-06a991528b02 No vpc-01ddB1 ubnets	rtual private cloud	VPC-BN-Pr	vRT rt	b-02454460ac9abbbe	6	subnet-082a0d459255e		No	vpc-01dd8f16d	dd9
Above to the solution of the s	wer VPf's	VPC-BN-Pu	bRT rt	b-0906166196813604	19	subnet-06a9f91528b02	(T).	No	vpc-01dd8f16d	ebb
aute tables — — — — — — — — — — — — — — — — — — —	ubnets	4								E.
terret gateways Select a route table gress-only internet gress-only internet gress-only internet teways arrifer gateways HCP Option Sets arrifers	oute tables					_				1
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Infer gateways HCP Option Sets	iteways									
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anaged prefix lists	astic IPs									

4. Associate Private Subnet to Private Route Table and Public subnet to Public Route Table

Services Q Searc	ch for services, features, blogs, doc	s, and more [Alt+	·S]	2		Tokyi	o 🔻 bharga
New VPC Experience X	Route tables (1/4) Info			C Act	ions 🔻	Create ro	oute table
C dashbarred	Q. Filter route tables					< 1) > ©
Global View 🔀 🗤	Name 1	▼ Route table ID ▼	Explicit subnet associat	Edge associations	Main	⊽ V	PC
er by VPC:		eth 070d4cda1c660ffc0			Vac		
elect a VPC 🔹		rth-04ffr(3b9025696ar9			Ves	V	or 01dd9f16dd
	VPC-BN-PovBT	rth-02454460ar9abbbe6	subnet-082a0d459255e	-	No	NI NI	pc-01dd8f16dd
tual private cloud	VPC-BN-PubRT	rtb-09061661968136049	subnet-0628034552556		No	u.	oc-01dd8f16dd
IF VPCs	i i	10-03001001300130043	300102/000313132000200		NU		pc-0100011000
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5. Create an Internet Gateway

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6. Connect Public Route Table to Internet Gateway

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

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

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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

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12. Attaching Private RouteTable to NAT Gateway

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Your VPCs	VPC-BN-PubRT	rtb-09061661968136049	subnet-06a9f91528b02	171	No	vpc-01dd	8f16dd9
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13. Pinging google.com from instance on Private Subnet



VPC Peering:

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

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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
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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.

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

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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

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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.

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9. Accept the peering connection request



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

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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

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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

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Upload some images into "images" folder

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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.
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	AWS Policy Generator									
	The AWS Policy Generator is a tool that enables you to create policies that control access to Ama For more information about creating policies, see key concepts in Using AWS Identity and Access	azon Web Se s Manageme	arvices (AWS) products and ent. Here are sample polici	l resou 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 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 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

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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

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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.

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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 Access Points 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 Batch Operations Access analyzer for S3	Buckets (2) Info 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 this account	Name O bhargavi-nukala	AWS Region Asia Pacific (Tokyo) ap-northe		 Creation date November 21, 2022, 1 	▼ 1:02:34 (UTC+05:30)
Storage Lens Dashboards AWS Ornanizations settions	bhargavi-nukala-replica	Asia Pacific (Sydney) ap-south	Bucket and east-2 objects not 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.



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	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 not set.	
	Default Schema:		The schema to use as default schema, Leave blank to select it later.	ums >
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Create a database and use the database

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Create a Table Student

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Insert some rows into the Student table

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		7 model affected	0170
no object selected	6 18:53:01 Insert into Student Values(234, Pranav', "Divil")	(TOWER) discuss	U. L/Z SEC

Select rows from the Student table.



Amazon Aurora:

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

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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.

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Instance details					
Virtual machine name * 🛈	Windows1-BhargaviNukala				
Region * ①	(US) East US]			
Availability options 🛈	No infrastructure redundancy required				
Security type ①	Standard				
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.

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Administrator account										
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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.

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Home > Virtual machines > Linux-Bha	rgaviNuk	ala								
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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	ux-Bhargav	Nukala: /home	e/Linuxuser	-		_	_	-	-	-	-	-	-	 	_	-	1.	-	0		3
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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	 P Search resources, services, and doc 	(G+/)			20 R	Благдам.аqua04@/gma режистряестоку днаяса
 Virtual machines > LinuxVM-Sn LinuxVM-Snapsh Virtual machine 	ot Disks …					
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Diagnose and solve problems			2.65			
ettings	Data disks					
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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	
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Availability + scaling	Operating system Linux (ubuntu 20.04)	Private IP address 10.0.0.5	

Check the status of apache2 running

\$systemctl status apache2



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Virtual machines > Linux-BhargaviNu Virtual machine	^{iNukala} cala Network	ng ☆		Add inbound security rule	DEFAULT DERECTORY (BHARGAVE
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2 Networking	Priority	Name	Port	Destination port ranges 🕕	
9 Connect	300	🛆 SSH	22		
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Microsoft Defender for Cloud	65001	AllowAzureLoadBalancerinBo	und Any	O UDP	
Advisor recommendations	65500	DenyAllInBound	Any	O ICMP	
Extensions + applications	4			Action	
Continuous dolivoru				 Allow 	
- 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 & ☆ … 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 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 6	6 @	@ R	DhargavLaqua04@gmai 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 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 ∞ ☆ …					
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∧ 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, /etc/php/7. 4lapache 2/c onf d120-pdo int, /etc.)php/7. 4/apache2/cont d220-estendarius, /etc/php/7. 4lapache2/cont d120-etcyse int, /etc./php/7. 4lapache2/cont d220-esti int, /etc/php/7. 4lapache2/cont d220- fft. Int, /etc./php/7. 4lapache2/cont d220-Bisinft. int, /etc./php/7. 4lapache2/cont d220-esti int, /etc/php/7. 4lapache2/cont d220- fft. Int, /etc./php/7. 4lapache2/cont d220-Bisinft. int, /etc./php/7. 4lapache2/cont d220-esti int, /etc./php/7. 4lapache2/cont d220- esti /etc./php/7. 4lapache2/cont d220-bisinft. int, /etc./php/7. 4lapache2/cont d220-esti int, /etc./php/7. 4lapache2/cont d220- pto, //stagene2/cont d220-bisinft. //etc./php/7. 4lapache2/cont d220-esti int, /etc./php/7. 4lapache2/cont d220- /etc./php/7. 4lapache2/cont d220-bisinft. //etc./php/7. 4lapache2/cont d220-esti //etc./php/7. 4lapache2/cont d220- /etc./php/7. 4lapache2/cont d220-bisinft. //etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d220-esti //etc./php/7. 4lapache2/cont d220- /etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d220-bisint, /etc./php/7. 4lapache2/cont d200-bisint, /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 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
Microsoft Azure 💮 Upgra	e P Search resources, services, and docs (G+/)		🖸 🗣 🖓 🐵 🖉 🧟	bhargavi.aqua04@gm DEFAULT DIRE
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				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	
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Properties Monitoring				
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Properties Monitoring Virtual machine Computer name	VMfromImage	Networking Public IP address	20.121.186.190	
Properties Monitoring Virtual machine Computer name Health state	VMfromImage	Networking Public IP address Public IP address (IPv6)	20.121.186.190	
Properties Monitoring Virtual machine Computer name Health state Operating system	VMfromEmage - Linux (ubuntu 20.04)	Networking Public IP address Public IP address Public IP address (IPv6) Private IP address	20.121.186.190 - 10.0.0,5	

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

root@	Mframlm	ige: /home	e/Linuxuae	er	-	-		- 1	-				The second se	- D	×
Terminal	Sections	View 3	server	Tools Gam	ses Settin	igs Macros	Help		1.00			_		10.0	
Section	Servers	Tools	Games	÷ Sessions	Mex	Split M	¥ ultExec	Tunneling	Packages	6 ⁴⁰ Settings	(7) Help			X server	Exit
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🙏 VMfromImage - Mir	crosoft Azure × S PHP 7.4.3 - phpinfo()	× 🕂						×
+ > C A 1	Vot secure 20.121.186.190/info.php	e د	Ŷ	X	*	≡J	•	9 :
	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, Vetchor/T. 4tapathe2tondt/D-point: Vetchpin/T. 4tapathe2tondt 4020-alendari vetchbr/T. 4tapathe2tondt/D-point: Vetchpin/T. 4tapathe2tondt 4020-alendari vetchbr/T. 4tapathe2tondt/D2D-gtvpi.ini; Vetchpin/T. 4tapathe2tondt 4020-alendari vetchpin/T. 4tapathe2tondt 4020-gtvpi.ini; Vetchpin/T. 4tapathe2tondt 4020-gtvpin/T. 4tapathe2tondt 4020- icom: Ini; Vetchpin/T. 4tapathe2tondt 4020-gsol, Ini; Vetchpin/T. 4tapathe2tondt 4020-gtvpin/T. 4tapathe2tondt 4020- icom: Ini; Vetchpin/T. 4tapathe2tondt 4020-gsol, Ini; Vetchpin/T. 4tapathe2tondt 4020-grant ini; Vetchpin/T. 4tapathe2tondt 4020-gsol, Ini; Vetchpin/T. 4tapathe2tondt 4020-grant ini; Vetchpin/T. 4tapathe2tondt 4020-gsol, Ini; Vetchpin/T. 4tapathe2tondt 4020-grant ini; Vetchpin/T. 4tapathe2tondt 4020-gsol; Ini; Vetchpin/T. 4tapathe2tondt 4020-grant ini; 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 ★ Virtual networks > AzureVnet-BhargaviNukala Subnets ★ Search @ Search with log % Activity log % Access control (fAM) @ figs Address space @ Connected devices S Subnets \$ Stanton @ Dobs protection @ fisivall @ Mtrosoft Defender for Cloud	Microsoft Azure 🕚 🖉 Se	arch resources, services, a	nd docs (G+/)			D 🕼 🖓	🐵 👁 🖈 🛛 bha	rgavi.aqua04@gm
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Now create one VM in each subnet.

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4	9 5
<pre>< Provious Page 1 v of 1 Noxt > 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.

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Iome > Microsoft.LoadBalancer-	-20221221182224 Overviev	v > LB-BhargaviN	ukala Backend	pools >											
Add backend pool B-BhargaviNukala															×
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ackend Pool Configuration	I NAC														
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P configurations															
P configurations	al machines and virtual machin	ne scale sets must b	e in same locatio	n as the load balan	cer										
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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 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 backend pool instances. Only	tes incoming traffic that is sent to a selected IP address and port combination across a group of backend instances that the health probe considers healthy receive new traffic.									
lame	UP-Rule1									
Version *	 IPvd IPvd 									
ontend IP address * 💿	Frontend-LS (20.115.110.10)	~								
ackend pool * (j)	BackendPool-LB	~								
rotocol #	● TCP ○ 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	× +	· · · · · ·
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VPC:

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

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Microsoft Azure	P Search resources, services, and docs ((G+/)		24	₩.	0 @	0	2 2 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 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 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) 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) 2R notation (e.g. 192.168.1.0/24). It must be 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) 38 notation (e.g. 192.168.1.0/24). It must be abnet Subnet address range	contained by the address space of 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) DR notation (e.g. 192.168.1.0/24). It must be abnet Subnet address range 10.1.0.0/24	contained by the address space of 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.

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Microsoft Azure 💿	P Search resources, services, and docs (G+/)		E G	P 🐵	@ R	bhargavi.aqua04 DEFAUL	l@gmail T DIRECTORY
ome > Virtual machines >							
reate a virtual mach	nine						×
~	ar a a						
Jefine network connectivity for your on nbound and outbound connectivity v	virtual machine by configuring network interface card (NEC) settings. You car vith security group rules, or place behind an existing load balancing solutior	control ports, 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 Create new	Ý					
irtual network * ① ubnet * ②	VirtualNetwork1-BhargaviNukala Create new PubSubnet (10.1.0.0/24)	~ ~					
irtual network * ① ubnet * ②	VirtualNetwork1-BhargaviNukala Create new PubSubnet (10.1.0.0/24) Manage subnet configuration	~					
firtual network * ① ubnet * ② ublic IP ①	VirtualNetwork1-BhargaviNukala Create new PubSubnet (10.1.0.0/24) Manage subnet configuration (new) PubVM-ip	 					
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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 inbound and outbound connectivity	virtual machine by configuring network interface card (NIC) setti with security group rules, or place behind an existing load balanc	ngs. You can control ports, 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 None 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 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 ⁿ	10	£`≡	©⊕	(8)	3
bout Store		C Download Microsoft Edge mobile app	×	a :	. 1	Sign	in
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	Google Search I'm Feeling Lucky	Option 2 Enter your email					
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Advertising Business How Search works	Carbon neutral since 2007		Privat	cy 1	ferms	Settin	ĥ
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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 × +) 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) Otiv)4@gmail. AT ONECTOR
e > Virtual networks > VitualNetwor VitualNetwork2-B Virtual network	^{rk2-8hargaviNukala} 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 and Storage Services D	Workgroup	WORKGROUP	Windows Update Last checked for updates	Install updates automatically using Windows Update 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. 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 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 VM1-VI	ER VI	
Before You Begin Installation Type Server Selection Server Roles Features AD DS Confirmation 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 Active Directory Domain Services (AD D5) stores information about objects on the network and makes this information available to users and network administrators. AD D uses domain controllers to give network users access to permitted resources anywhere on the networ through a single logon process.	s s	Hide
	C Previous New Events Events	s install Cancel	Servers 1 hageability Events	
	Performance 1 Servic BPA results Perfo BPA r	rmance esuits	Services Performance 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- Victual network	BhargaviNuka	l <mark>a</mark> Subnets	☆ …					×
P Search 🔹	+ Subnet + C	Sateway subnet 门 Re	efresh 🥄 😽 Manage (users 📋 Delete				
 Overview 	•							
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 2 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/#@ ■ Microsoft Azure P Search	phargaviaqua04gmail.onmicrosoft/ resources, services, and docs (G+/)	com/resource/subscriptions/49d5/1c4-9421-4/73-8	Idb-101tc91ba2/4/resourcegn	oup 🗣 🕃 🖻 🛠 🚺 🛸	qua04@gmail 🧶
Home > CreateVm-MicrosoftWindowsSe VM-Webserver & Virtual machine Virtual machine (%) Bearch	rvecWindows5erver-202-20230104 ☆ … Ø Connect ~ ▷ Start 个	185257 Overview > 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 ing JS I subscription 1 71c4-9421-4773-8fdb-101fc91ba274 here to add tags	Operating system : Wi Size : Sti Public IP address : 20 Virtual network/subnet : <u>Vir</u> DNS name : <u>Nr</u>	indows (Windows Server 2022 Datacenter andard D2s v3 (2 vcpus, 8 GiB memory) 1232,190.114 tualNetwork1-BhargaviNukala/WebSvrSuł at configured	JSON View Azure E., bnet
6 Connect Windows Admin Center 2 Disks 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 Operating system	Windows (Windows Server 2022 Datacenter Azure Edition)	Public IP address (IPv6) Private IP address Private IP address (IPv6)	10.1.2.4	
Extensions + applications G. Continuous delivery	Offer Plan	Microsoftvin00WSServer WindowsServer 2022-datacenter-azure-edition	Virtual network/subnet DNS name	VirtualNetwork1-BhargaviNukala/WebS 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 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						
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	renormance	Services En 1, Col 22	Dervicea Windows (CRLF)	DIPO		
	BPA results	Performance BPA results	Performance BPA results	Performance BPA results		

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

	L ⁹ 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 Deployment Configuration Deployment Configuration Domain Controller Options ONS Options Additional Options Paths Renterr Options Preneguistes Check Installittion Results	s Configuration Wizard iguration Select the deployment ope Add a domain controll Add a new domain to a Add a new forest Specify the domain inform. Root domain neme:	ration r fo an existing domain n existing forest ation for this operation CloudtoMe.com	- C X TARGET SERVER VM1-VN1				Hide
	ВРИ	More about deployment of A results	Previous Next >	Install Cancel BPA results	1	 All Servers Manageability Events Services Performance BPA results 	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 Domain Controller Deployment Configuration Domain Controller Options DNS Options Additional Options Rative Options Prerequisites Check 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 Windows Server 2016 Windows Server 2016 Windows Server 2016 illites server (RODC) ore Mode (DSRM) pessword	- C × TARGET SERVER VMI-VNI				Hide
	BF4	Password: Confirm password: More about domain controller op cresults	phons Previous Next >	Install Cancel BPA result	r 1	All Servers Manageability Events Services Performance 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 -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 Active Directory Module for Windows PowerShell
Local Server All Servers AD DS DNS	Computer name Domain	VM1-VN1 cloudtome.com		Last installed updates N Windows Update In Last checked for updates N	Active Directory Sites and Services Active Directory Users and Computers ADSI Edit Component Services
File and Storage Services D	Microsoft Defender Firewall Private On Remote management Enabled			Microsoft Defender Antivirus R Feedback & Diagnostics Se IF Enhanced Security Configuration O	Defragment and Optimize Drives Disk Cleanup
	NIC Teaming Ethernet	Disabled IPv4 address assigned by DHCP, IPv6 enabled		Time zone (U Product ID 00	DNS Event Viewer
	Operating system version Hardware information	Microsoft Windows Server 2022 Datacenter A Microsoft Corporation Virtual Machine	zure Edition	Processors In Installed memory (RAM) 8 Total disk space 14	Citop Policy Management SCSI Initiator Local Security Policy Microsoft Azure Services ODBC Data Sources (32-brt) ODBC Data Sources (64-brt) Performance Monitor
	EVENTS All events 43 total				Recavery Drive Registry Editor 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 System System System	Date and Time 1/4/2023 3/01/20 PM 1/4/2023 3/01/10 PM 1/4/2023 3/01/14 PM	system information Task Scheduler Windows Defender Firewall with Advanced Security Windows Memory Diagnostic Windows PowerShell

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

File Action View Help			- L				
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Right click and Add a new host entry. Give the **Private** IP address of VM-Webserver

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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.

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This is a web-server page created to test DNS

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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

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

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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.

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Create another VirtualNetwork2 and create a VM in that Vnet

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ime ⊃ CreateVm-MicrosoftWindows VM2-VN2 & ☆ Virtuel machine © Bearch «	sServer,WindowsServer-202-20230104223014 Overview > & 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		
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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
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Microsoft Detender for Cloud	Computer name VM2-VN2	Public IP address 20.205.41.41
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Goto Private DNS Zone cloudtome.com->add another virtual network link for this VirtualNetwork2

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Diagnose and solve problems					
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Create a Vnet Peering between VirtualNetwork1 and VirtualNetwork2

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VirtualNetwork1-Bhargavi	Nukala -BhargaviNukala Peer	rings 🕁 …			3
Firewall Microsoft Defender for Cloud	P Filter by name Name 1:	Peering status == all	Pror 1.	Gateway transit ጎ	
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Now logon to VM2-VN2 machine and try to access web-server.cloudtome.com/Default.html