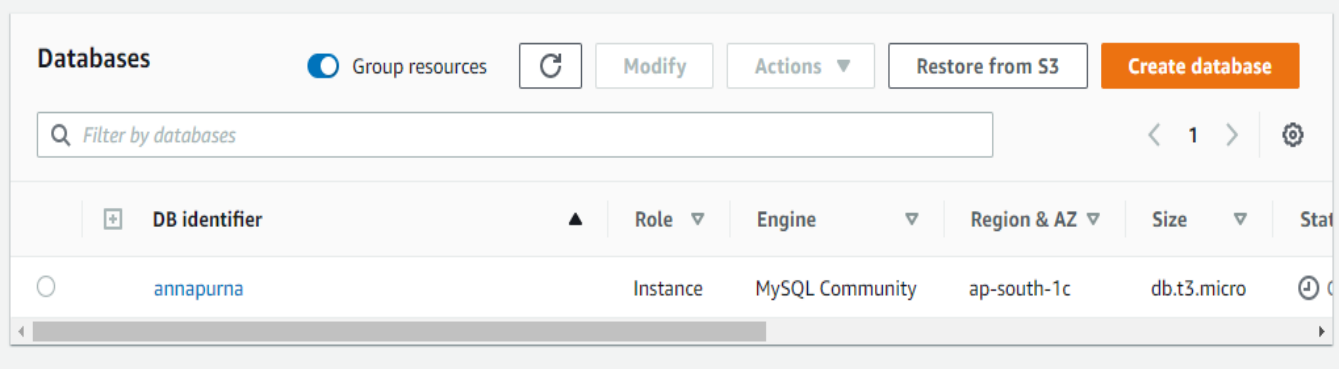
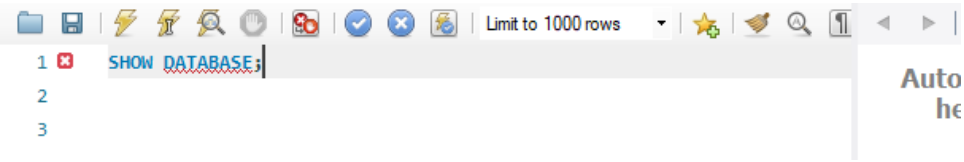
Creation of RDS

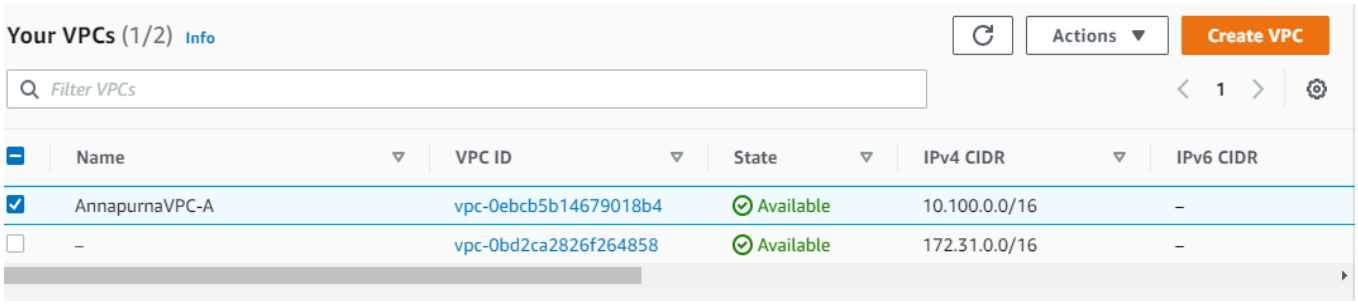


Mysql connection.

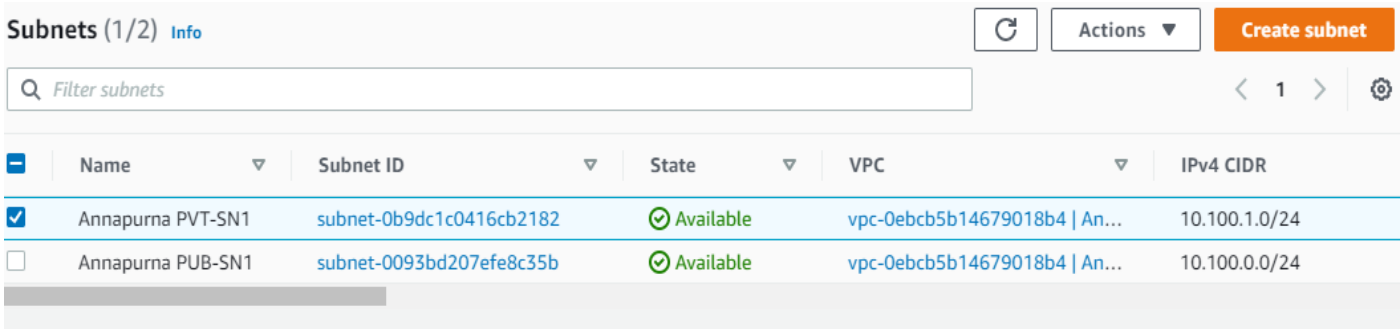


VPC & VPC PEERING CONNECTION

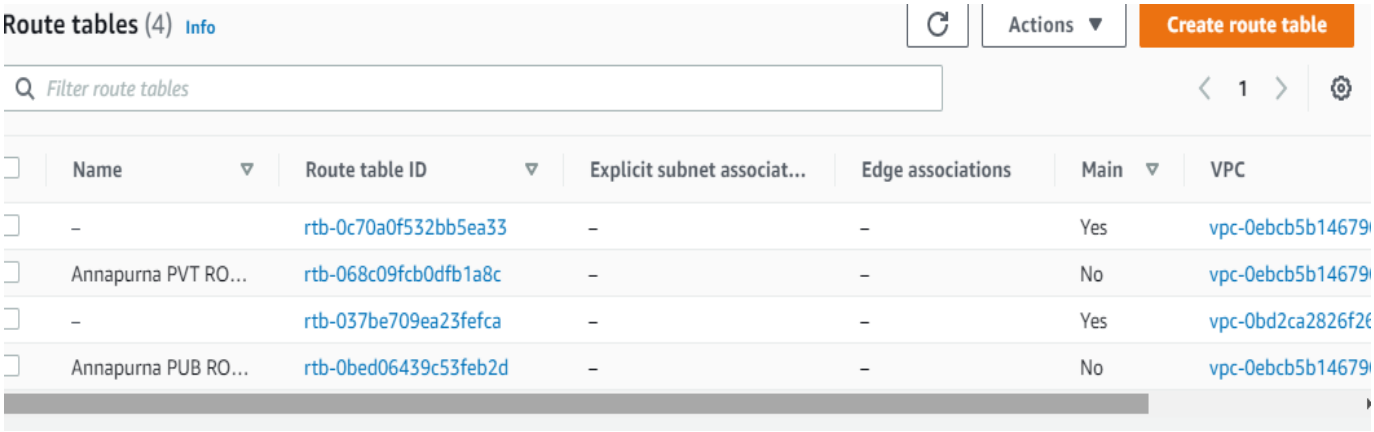
*CREATION OF VPC



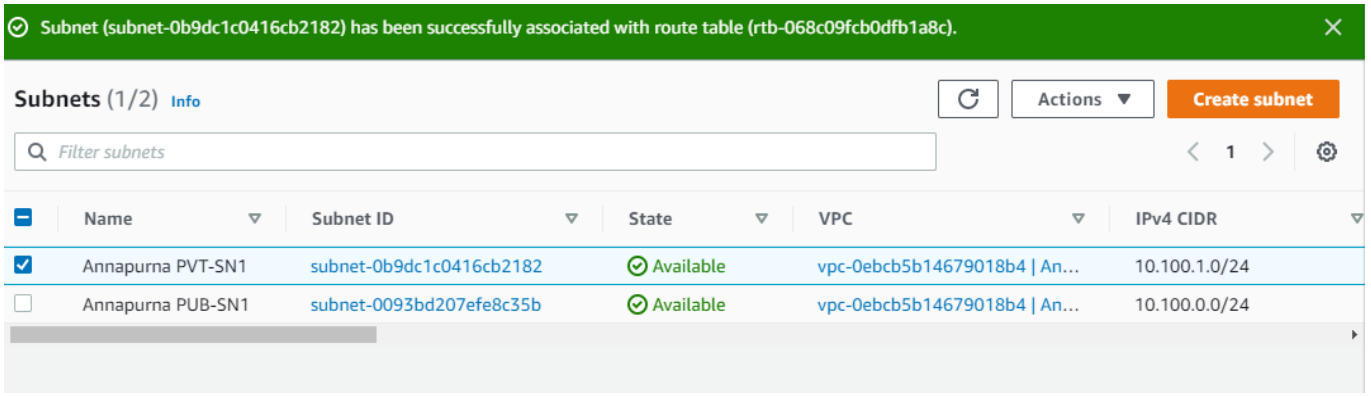
*CREATION OF SUBNETS



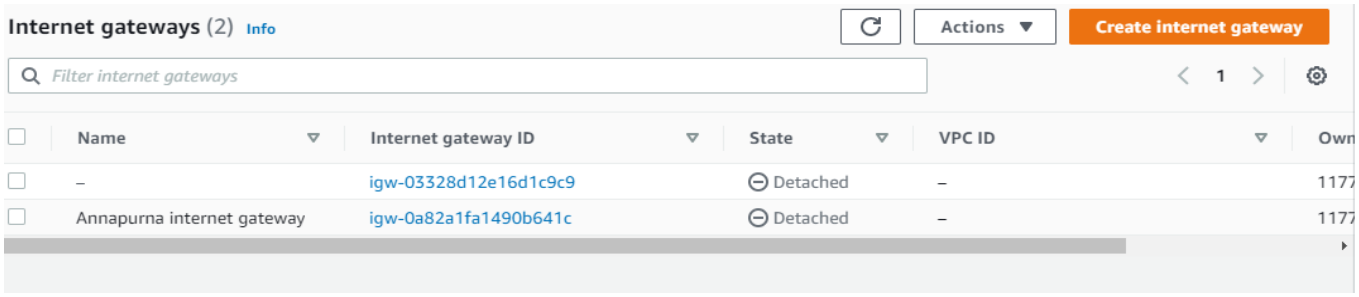
*CREATION OF ROUTE TABLE



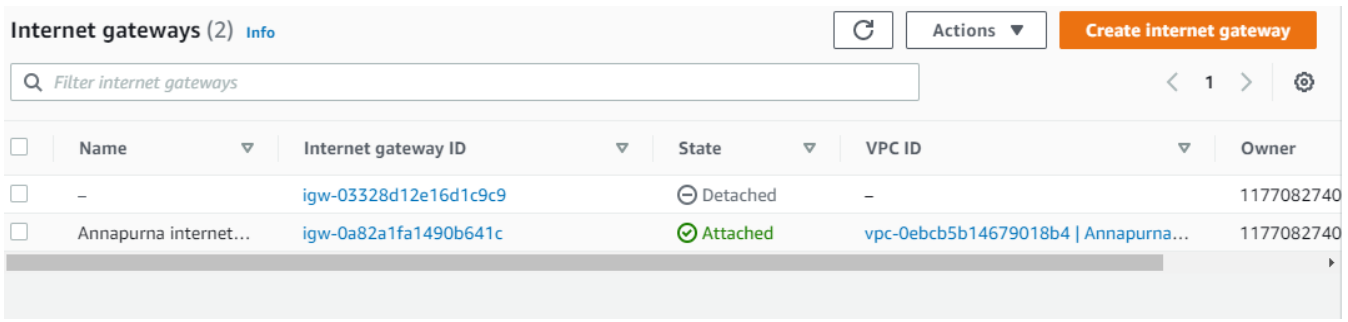
*ASSOCIATION OF SUBNETS



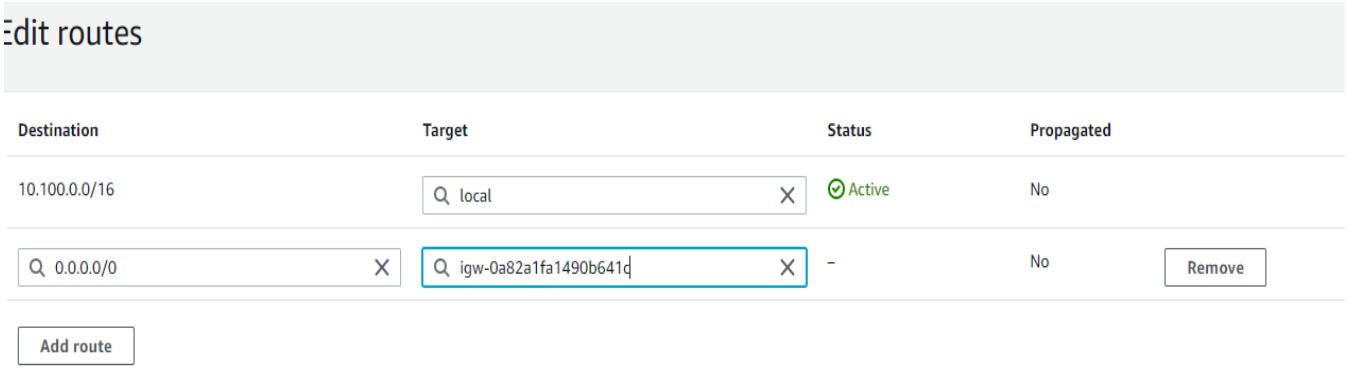
*CREATION OF INTERNET GATEWAY



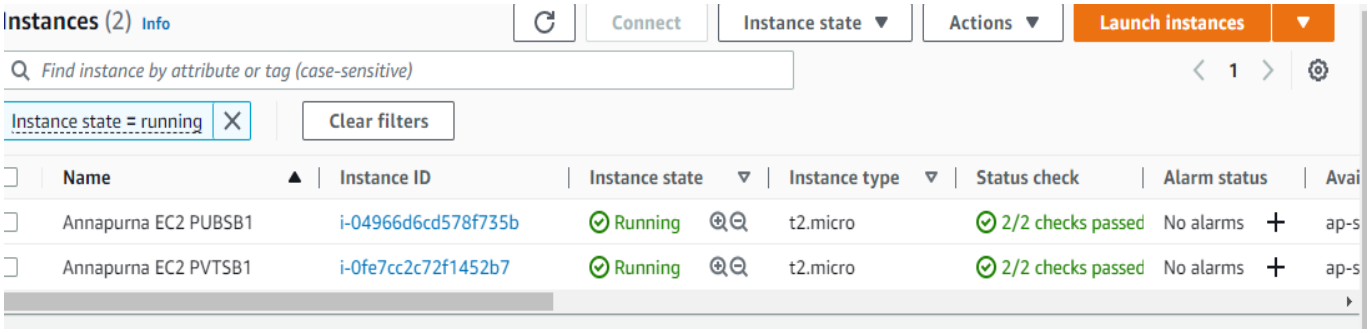
*VPC-A CONNECTED TO INTERNET GATEWAY



*PUBLIC ROUTE TABLE IS CONNECTED TO INTERNET GATEWAY



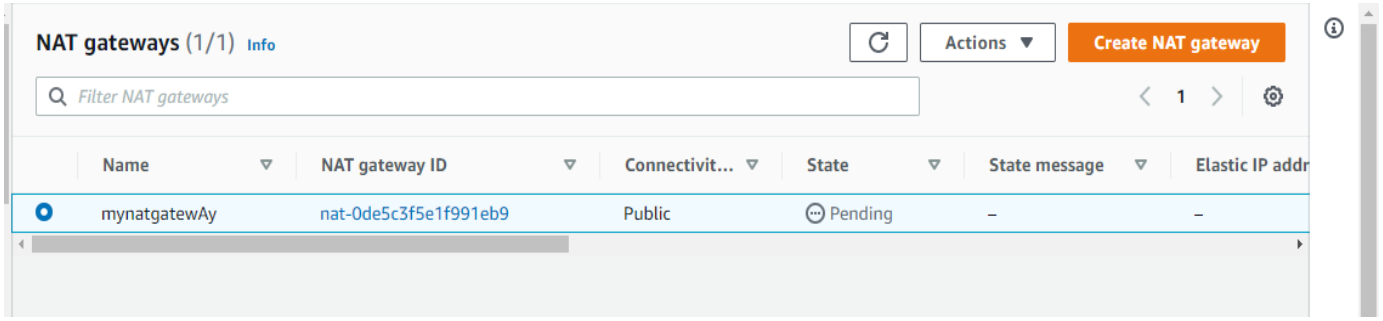
*CREATION OF INSTANCES

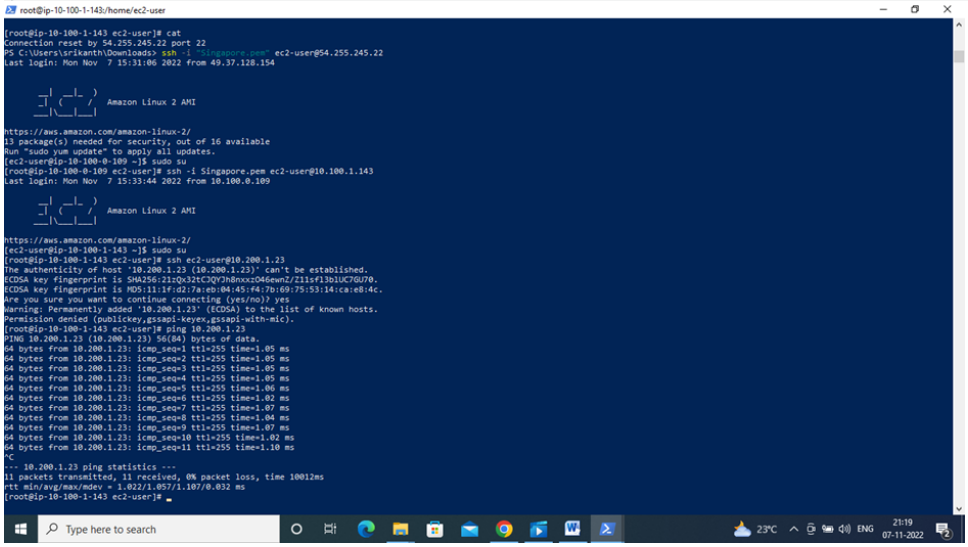


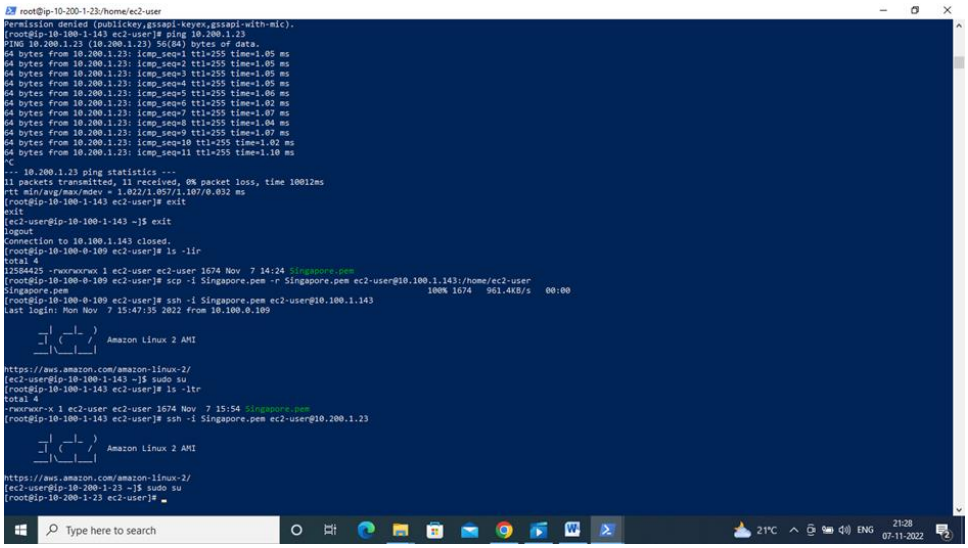
*PUBLIC SUBNET CONNETED TO POWERSHELL

```
64 bytes from 192.168.0.94: icmp_seq=29 ttl=255 time=0.409 ms
64 bytes from 192.168.0.94: icmp_seq=30 ttl=255 time=0.492 ms
64 bytes from 192.168.0.94: icmp_seq=31 ttl=255 time=0.501 ms
64 bytes from 192.168.0.94: icmp_seq=32 ttl=255 time=0.492 ms
64 bytes from 192.168.0.94: icmp_seq=33 ttl=255 time=0.502 ms
64 bytes from 192.168.0.94: icmp_seq=34 ttl=255 time=0.500 ms
^C
--- 192.168.0.94 ping statistics ---
34 packets transmitted, 34 received, 0% packet loss, time 33756ms
rtt min/avg/max/mdev = 0.384/0.491/1.255/0.140 ms
[root@ip-192-168-2-26 ec2-user]# ^C
[root@ip-192-168-2-26 ec2-user]# ^C
[root@ip-192-168-2-26 ec2-user]# client_loop: send disconnect: Connection reset
PS C:\Users\91991\Downloads>
```

*NAT GATEWAY

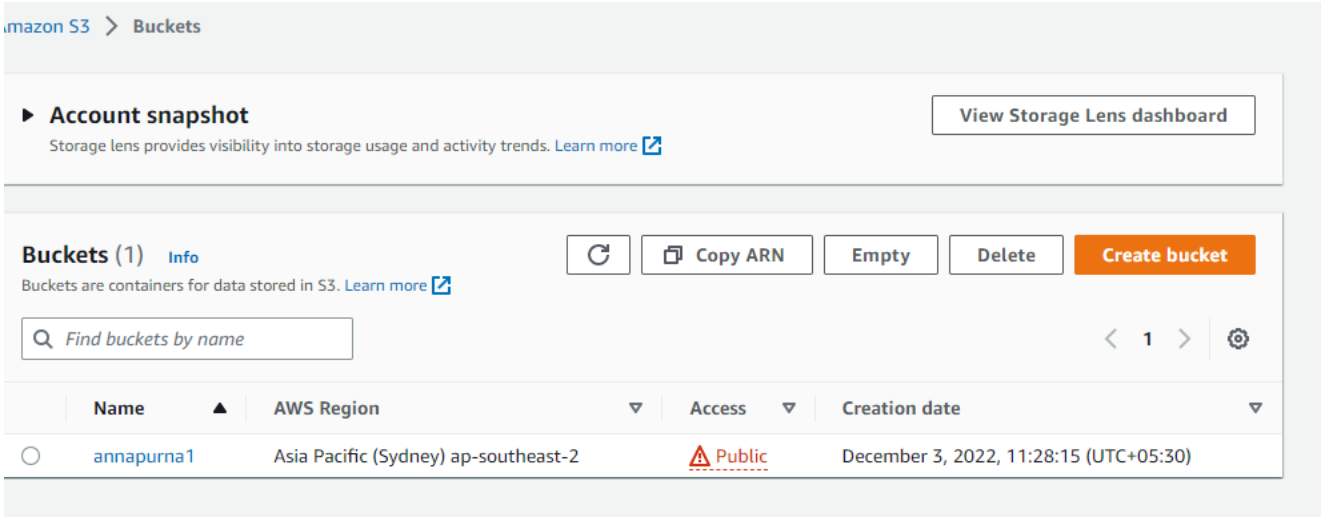






S3 STORAGE

* **CREATION OF BUCKET**



POLICY GENERATOR

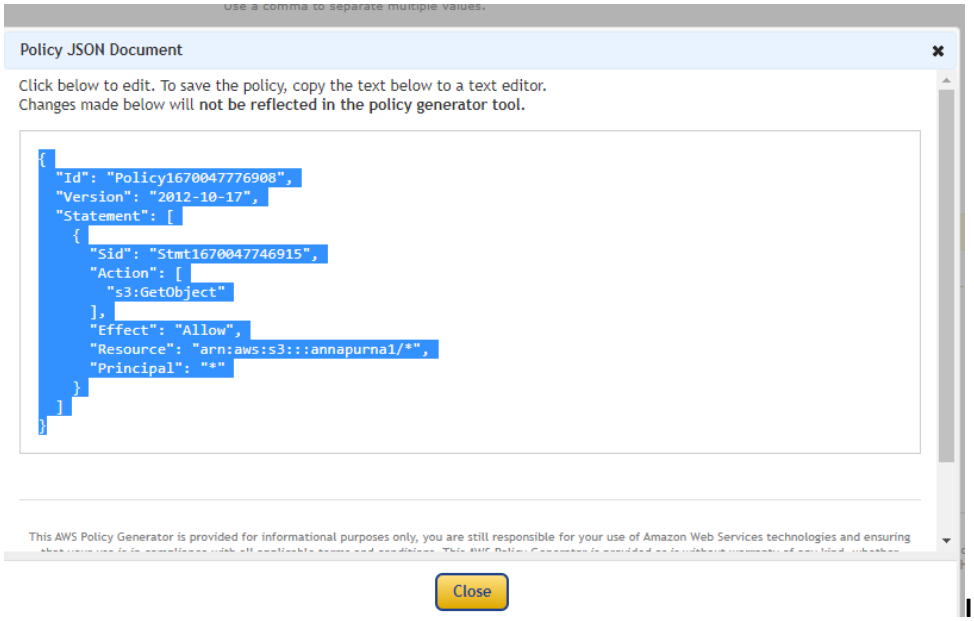
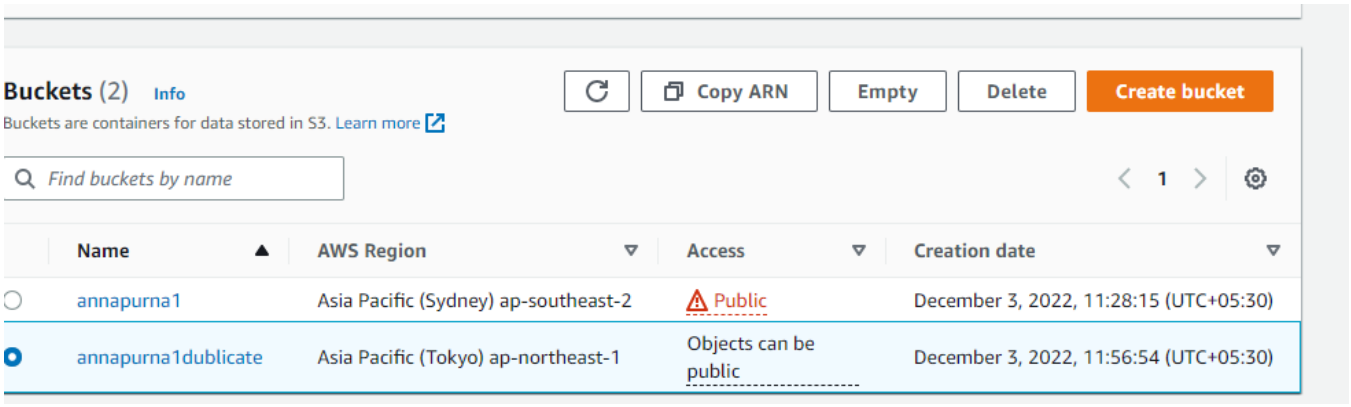


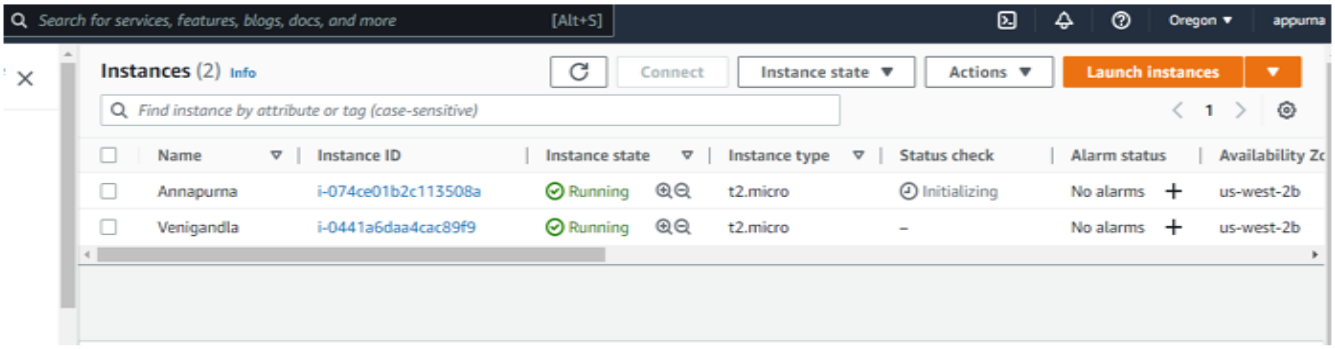
IMAGE SHOWN IN WEB

Dublication rule

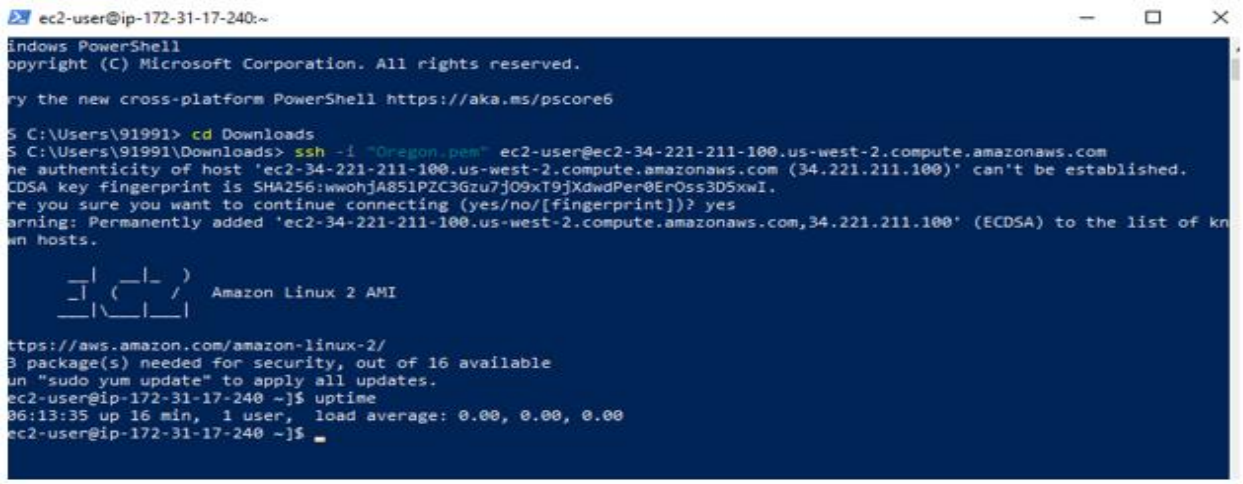


CREATE INSTANCE (OR)MACHINE

*CREATE THE INSTANCE

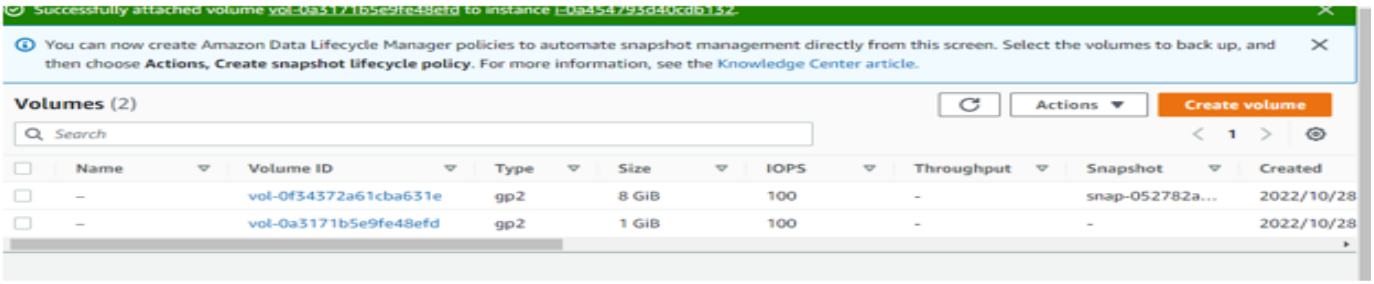


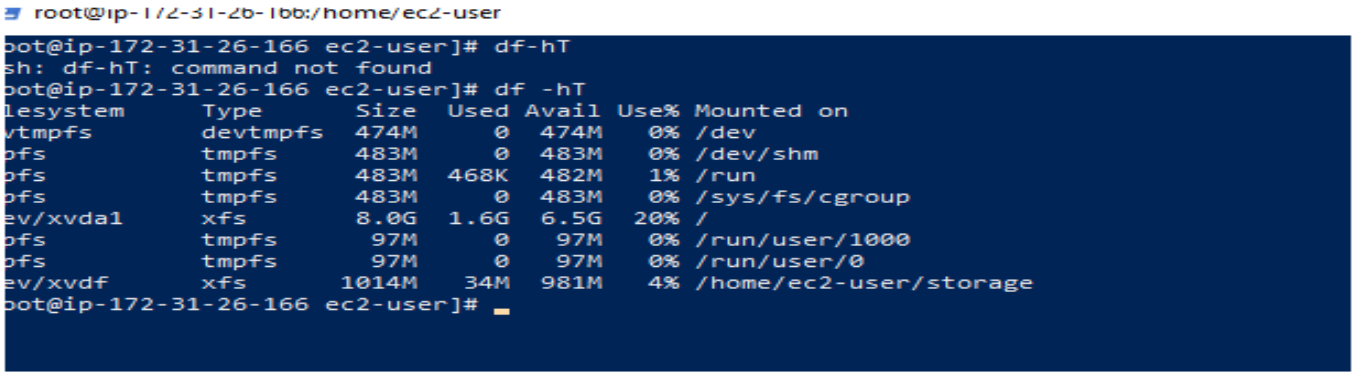
*connect to the server



CREATE EBS VOLUMES

*Create a volume





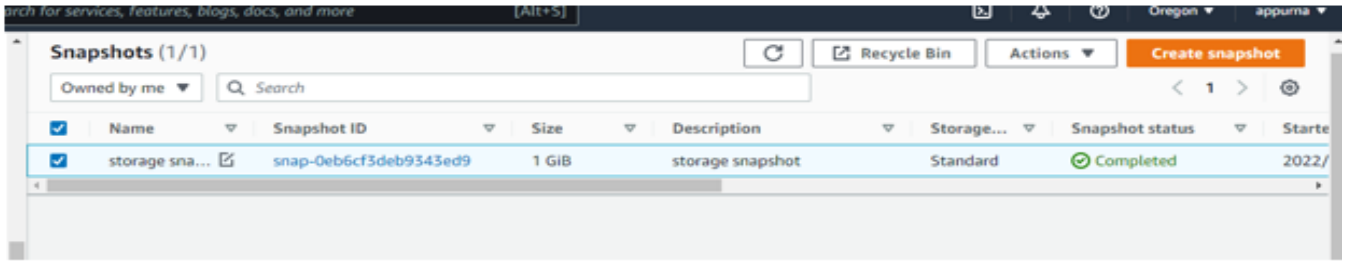
*MOUNT THE FILE AND TOUCH TXT

```
root@ip-172-31-26-166 ec2-user]# df-hT
ash: df-hT: command not found
root@ip-172-31-26-166 ec2-user]# df -hT
ilesystem      Type       Size  Used Avail Use% Mounted on
evtmpfs        devtmpfs   474M     0  474M   0% /dev
mpfs           tmpfs      483M     0  483M   0% /dev/shm
mpfs           tmpfs      483M  468K  482M   1% /run
mpfs           tmpfs      483M     0  483M   0% /sys/fs/cgroup
dev/xvda1      xfs        8.0G  1.6G  6.5G  20% /
mpfs           tmpfs       97M     0   97M   0% /run/user/1000
mpfs           tmpfs       97M     0   97M   0% /run/user/0
dev/xvdf       xfs       1014M   34M  981M   4% /home/ec2-user/storage
root@ip-172-31-26-166 ec2-user]# ^C
root@ip-172-31-26-166 ec2-user]# lsblk
AME     MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
vda     202:0    0   8G  0 disk
—xvda1 202:1    0   8G  0 part /
vdf     202:80   0   1G  0 disk /home/ec2-user/storage
root@ip-172-31-26-166 ec2-user]# cd storage
root@ip-172-31-26-166 storage]# touch {1,,,10).txt
ash: syntax error near unexpected token `)'
root@ip-172-31-26-166 storage]# touch
ouch: missing file operand
ry 'touch --help' for more information.
root@ip-172-31-26-166 storage]# touch {1,,,10} txt
root@ip-172-31-26-166 storage]# ls
  10  txt
root@ip-172-31-26-166 storage]# umount /home/ec2-user/storage/
mount: /home/ec2-user/storage/: target is busy.
root@ip-172-31-26-166 storage]#
root@ip-172-31-26-166 storage]# umount /home/ec2-user/storage/
```

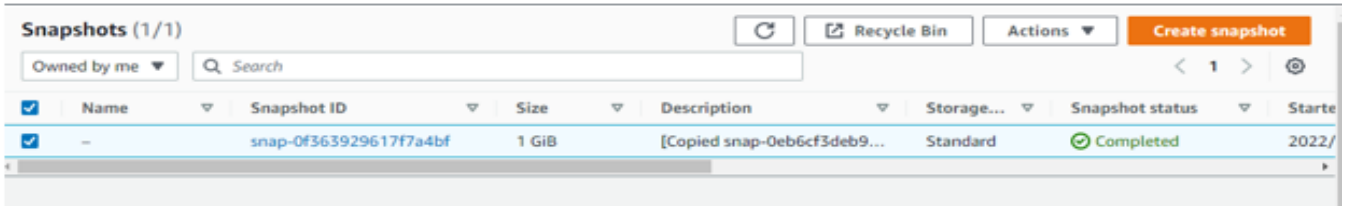
*Mount the file and touch txt.

CREATE THE SNAPSHOT

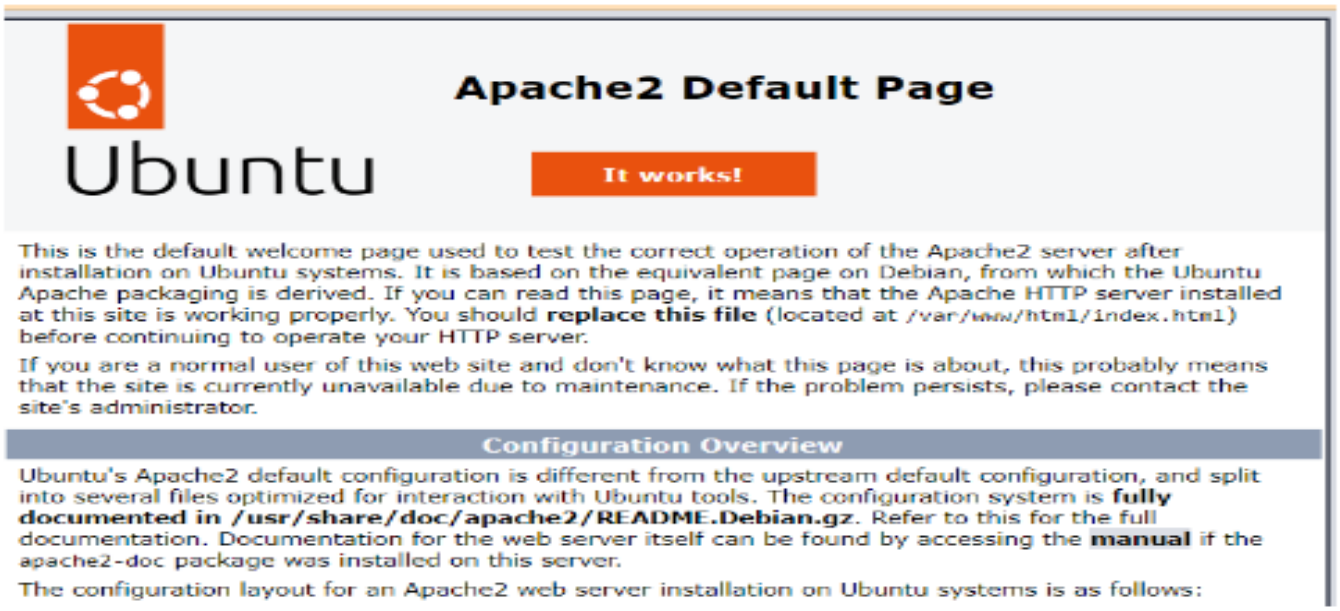
*Create a snapshot

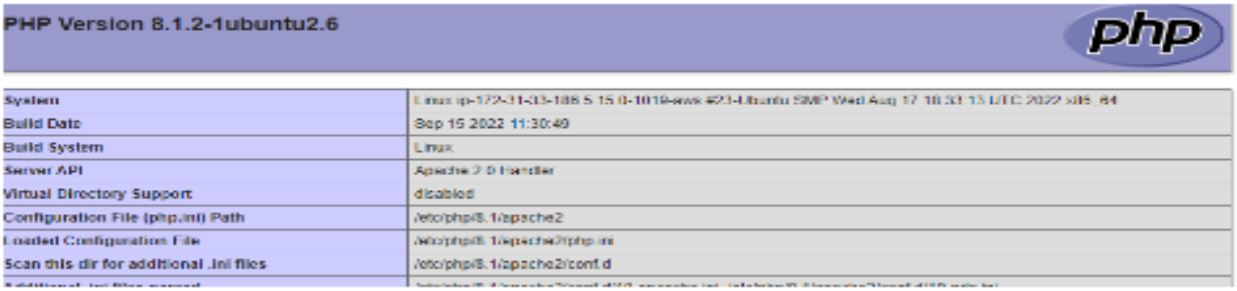


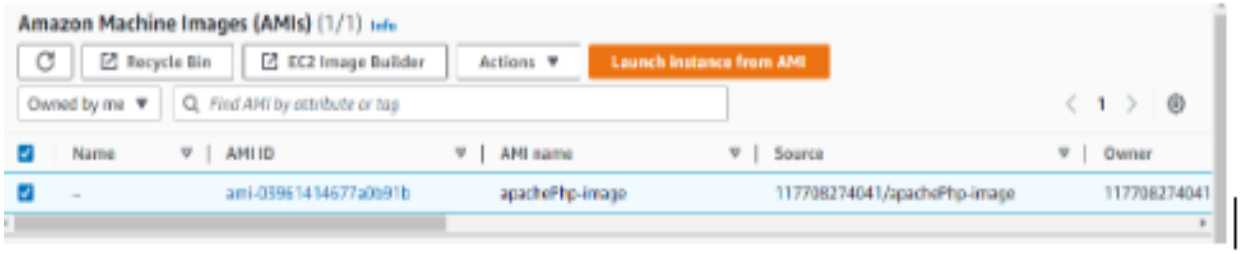
Copied snapshot another region

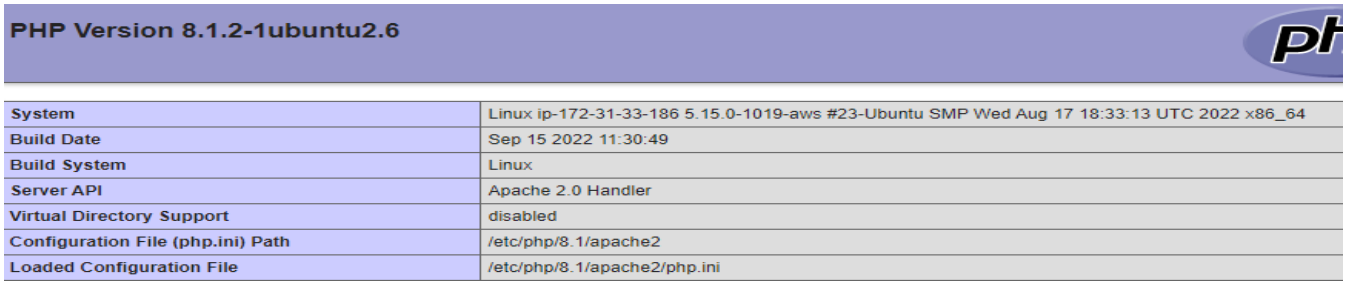


CREATE AMI & LOAD BALANCER

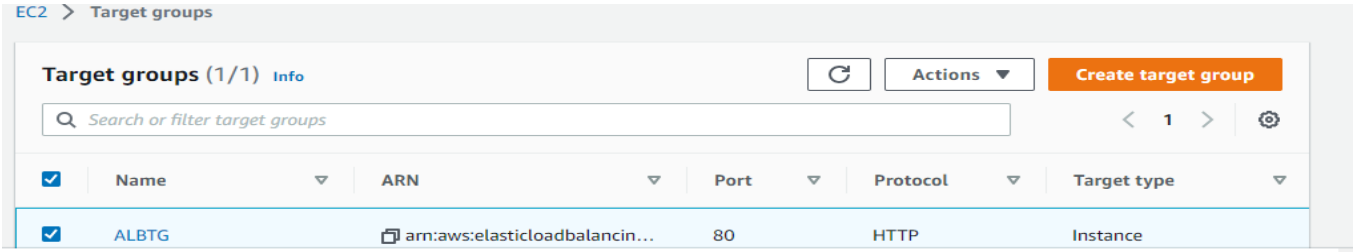




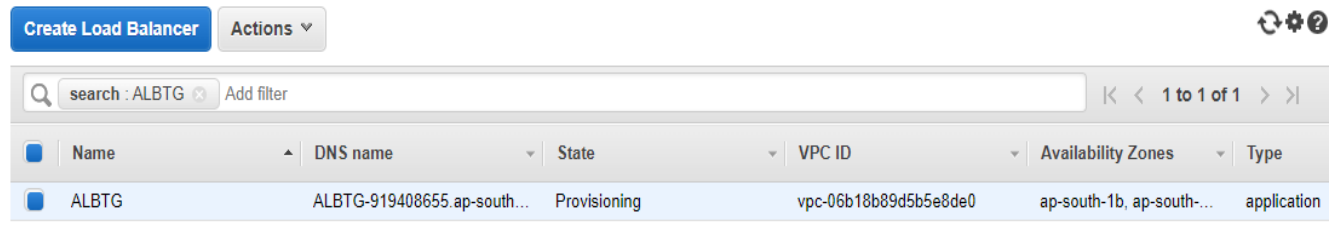


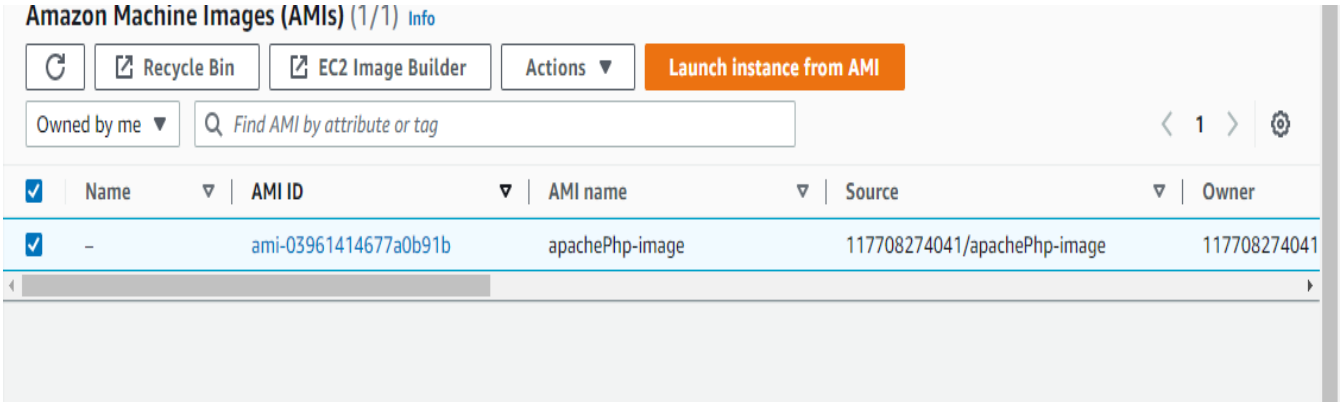


*TARGET GROUP



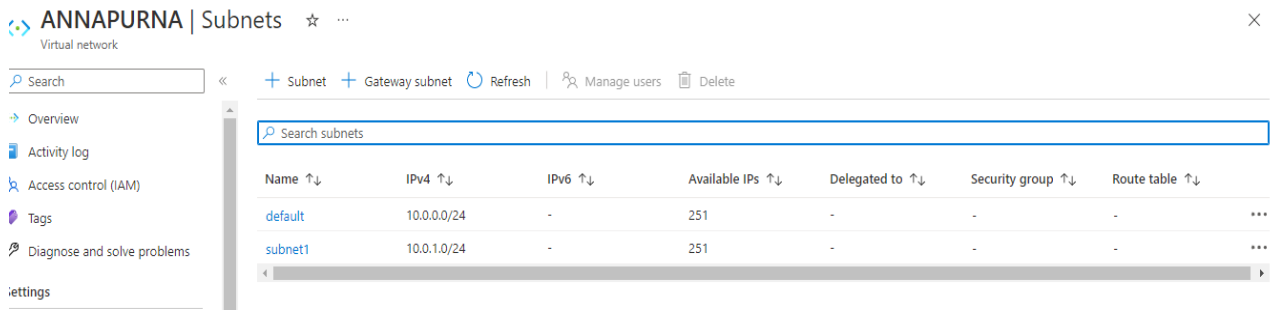
*LOAD BALANCER





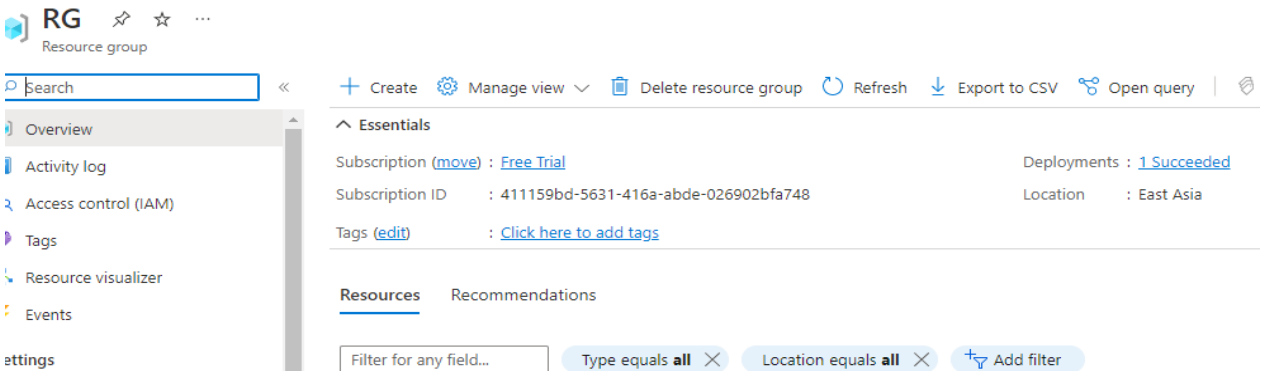
AZURE VPC

- V-NET
-
-

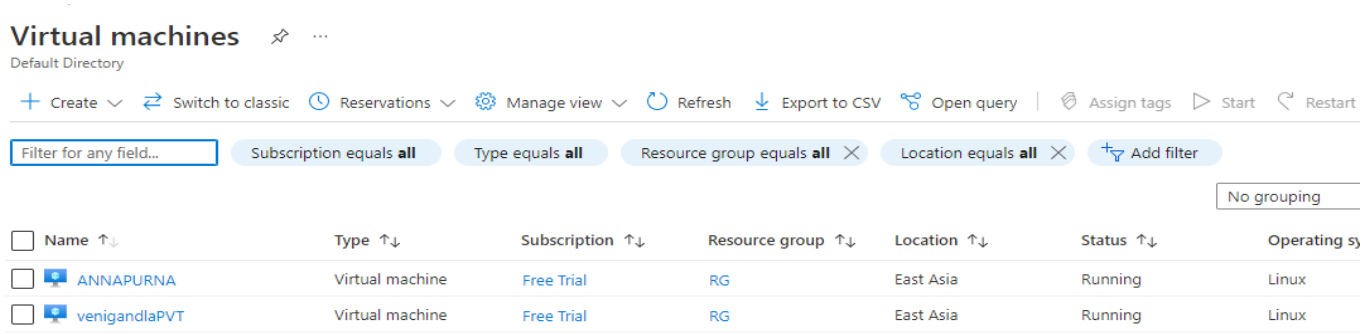


-

*RESOURCE GROUP



*CREATE A VIRTUAL MACHINE



*PUBLIC POWERSHELL IS CONNECTED TO PRIVATE VM

```
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

annapurna@ANNAPURNA:~$ sudo su
root@ANNAPURNA:/home/annapurna# ssh annapurna@10.0.1.4
The authenticity of host '10.0.1.4 (10.0.1.4)' can't be established.
ECDSA key fingerprint is SHA256:zuVZV9TOxbdqP4g6RvpkXaXcBLhDG9n9qxgiP8eeyfY.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.0.1.4' (ECDSA) to the list of known hosts.
annapurna@10.0.1.4's password:
Welcome to Ubuntu 20.04.5 LTS (GNU/Linux 5.15.0-1029-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

  System information as of Sun Dec 25 05:06:55 UTC 2022

  System load:  0.03              Processes:             100
  Usage of /:   5.1% of 28.89GB   Users logged in:       0
  Memory usage: 31%               IPv4 address for eth0: 10.0.1.4
  Swap usage:   0%

0 updates can be applied immediately.


The list of available updates is more than a week old.
To check for new updates run: sudo apt update


The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

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applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
```
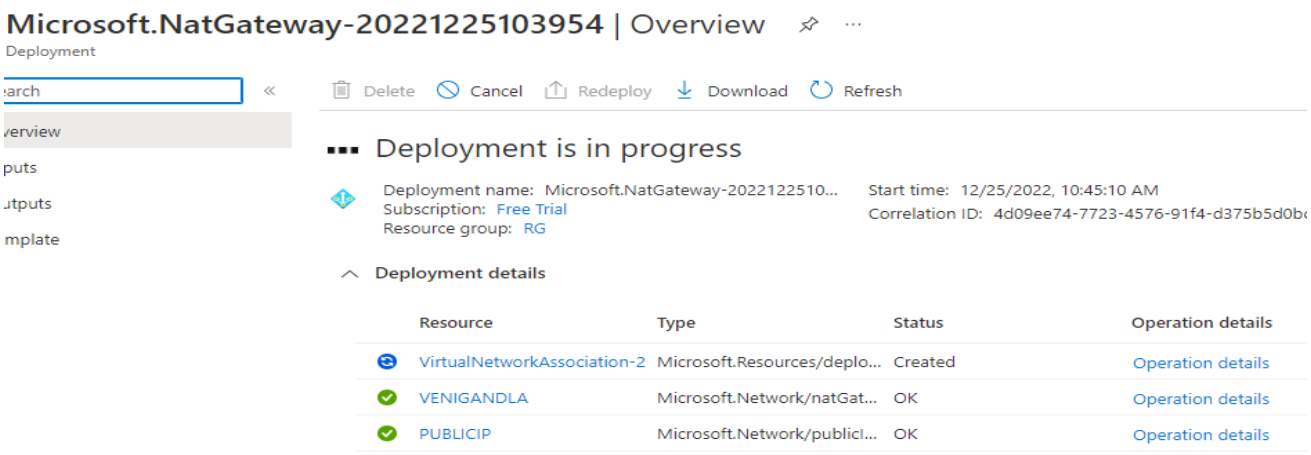
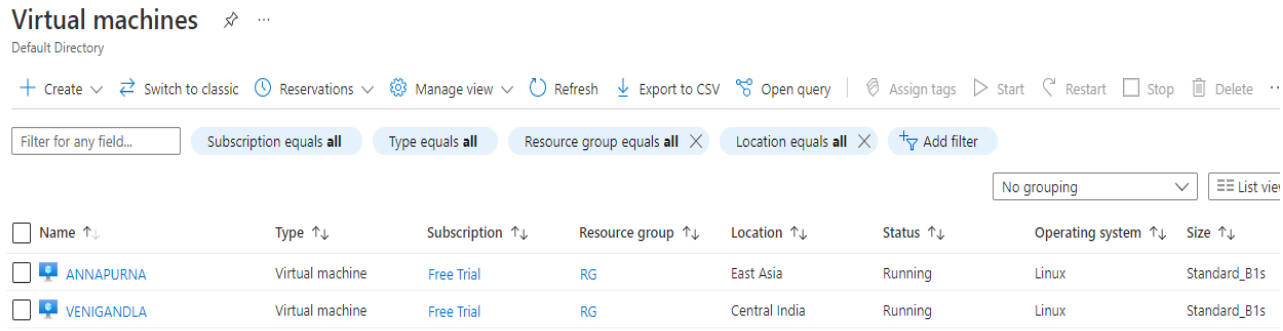

*NAT GATEWAY



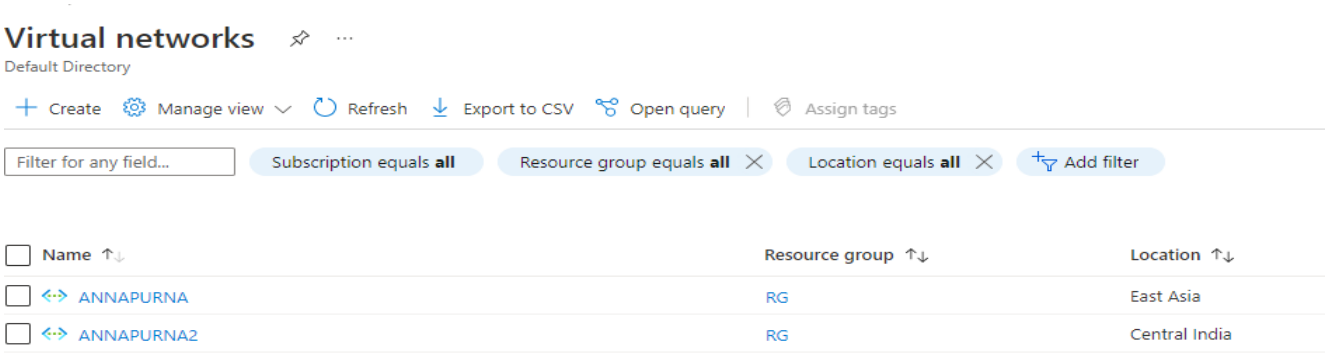

```
napurna@venigandlaPVT:~$ sudo su
oot@venigandlaPVT:/home/annapurna# curl ifconfig.me
.205.0.83root@venigandlaPVT:/home/annapurna# uptime
5:21:39 up 33 min,  1 user,  load average: 0.00, 0.00, 0.00
oot@venigandlaPVT:/home/annapurna# exit
xit
napurna@venigandlaPVT:~$ exit
ogout
onnection to 10.0.1.4 closed.
oot@ANNAPURNA:/home/annapurna# curl ifconfig.me
.187.76.41root@ANNAPURNA:/home/annapurna# curl ifconfig.me
.187.76.41root@ANNAPURNA:/home/annapurna# ssh annapurna@10.0.1.4
napurna@10.0.1.4's password:
elcome to Ubuntu 20.04.5 LTS (GNU/Linux 5.15.0-1029-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

  System information as of Sun Dec 25 05:38:24 UTC 2022

  System load:  0.0                Processes:             100
  Usage of /:   5.2% of 28.89GB    Users logged in:       0
  Memory usage: 31%                IPv4 address for eth0: 10.0.1.4
  Swap usage:   0%


  updates can be applied immediately.


he list of available updates is more than a week old.
 check for new updates run: sudo apt update
ew release '22.04.1 LTS' available.
un 'do-release-upgrade' to upgrade to it.


ast login: Sun Dec 25 05:06:57 2022 from 10.0.0.4
napurna@venigandlaPVT:~$ sudo su
oot@venigandlaPVT:/home/annapurna# curl ifconfig.me
.205.0.83root@venigandlaPVT:/home/annapurna# google.com
oogle.com: command not found
oot@venigandlaPVT:/home/annapurna#
```

VPC PEERING

*CREATE A VIRTUAL MACHINE IN TWO DIFFERENT Vnets



*CREATE A Vnet IN TWO DIFFERENT REGIONS



*VPC PEERING

```
annapurna@ANNAPURNA:~$ ssh annapurna@192.168.0.4
The authenticity of host '192.168.0.4 (192.168.0.4)' can't be established.
ECDSA key fingerprint is SHA256:7+StTjwoBp7V5xGapYhRuIemCiubLoUUmMCiB88QzWw.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.0.4' (ECDSA) to the list of known hosts.
annapurna@192.168.0.4's password:
Welcome to Ubuntu 20.04.5 LTS (GNU/Linux 5.15.0-1029-azure x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

  System information as of Sun Dec 25 13:42:10 UTC 2022

  System load:  0.0               Processes:             100
  Usage of /:   5.2% of 28.89GB   Users logged in:       0
  Memory usage: 31%               IPv4 address for eth0: 192.168.0.4
  Swap usage:   0%

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.

   https://ubuntu.com/engage/secure-kubernetes-at-the-edge

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See "man sudo_root" for details.

annapurna@VENIGANDLA:~$
```
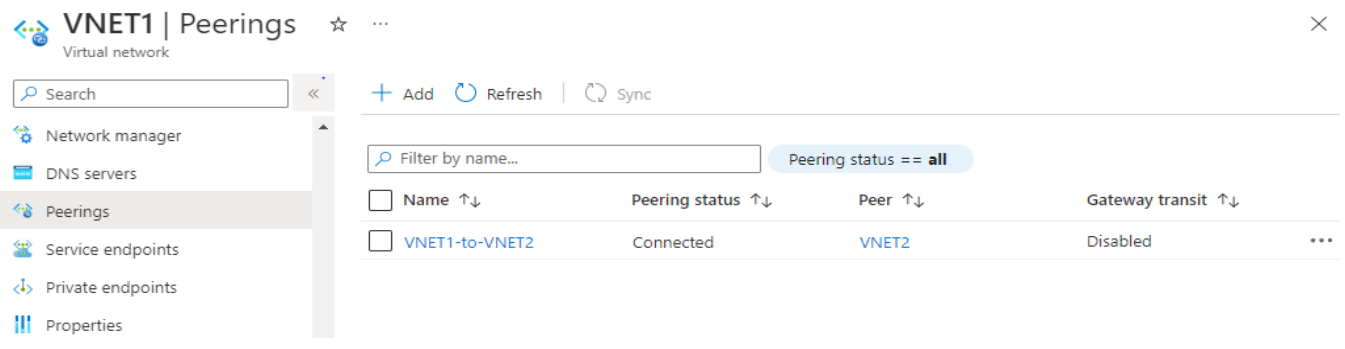
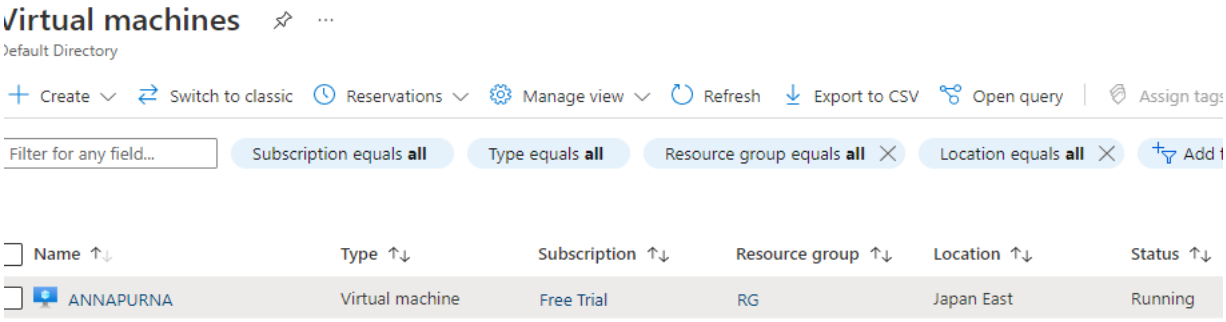
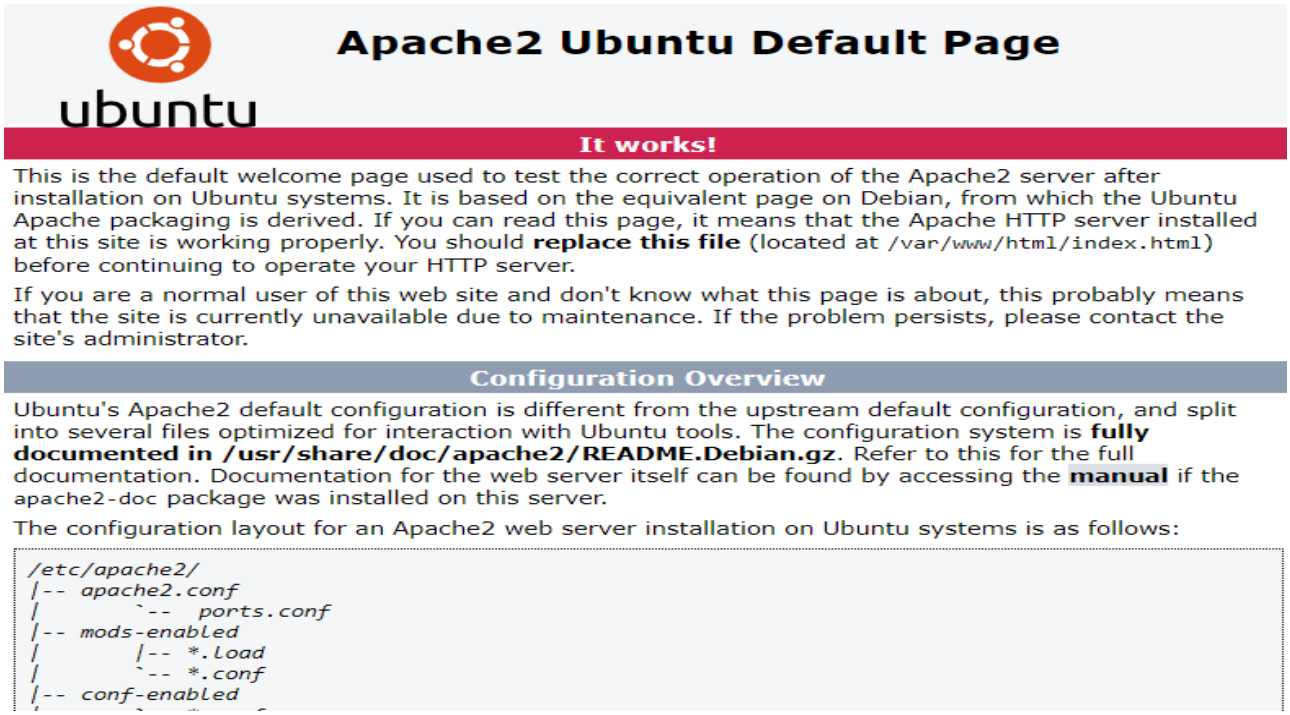



AMI IN AZURE




```
cessing triggers for libc-bin (2.31-0ubuntu9.9) ...
t@ANNAPURNA:/home/annapurna# systemctl status apache2
pache2.service - The Apache HTTP Server
  Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enable
  Active: active (running) since Sun 2022-12-25 14:14:13 UTC; 2min 45s ago
    Docs: https://httpd.apache.org/docs/2.4/
Main PID: 3370 (apache2)
   Tasks: 55 (limit: 1076)
  Memory: 9.1M
  CGroup: /system.slice/apache2.service
          ├─3370 /usr/sbin/apache2 -k start
          ├─3373 /usr/sbin/apache2 -k start
          └─3374 /usr/sbin/apache2 -k start

 25 14:14:13 ANNAPURNA systemd[1]: Starting The Apache HTTP Server...
 25 14:14:13 ANNAPURNA systemd[1]: Started The Apache HTTP Server.
```

*connected to appache2



Apache2 Ubuntu Default Page

ubuntu

It works!

This is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It is based on the equivalent page on Debian, from which the Ubuntu Apache packaging is derived. If you can read this page, it means that the Apache HTTP server installed at this site is working properly. You should **replace this file** (located at `/var/www/html/index.html`) before continuing to operate your HTTP server.

If you are a normal user of this web site and don't know what this page is about, this probably means that the site is currently unavailable due to maintenance. If the problem persists, please contact the site's administrator.

Configuration Overview

Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The configuration system is **fully documented in /usr/share/doc/apache2/README.Debian.gz**. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the **manual** if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Ubuntu systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|       `--  ports.conf
|-- mods-enabled
|       |-- *.load
|       `-- *.conf
|-- conf-enabled
```

*connect to php

PHP Version 7.4.3

System	Linux ANNAPURNA 5.15.0-1029-azure #36~20.04.1-Ubuntu SMP Tue Dec 6 17:00:26 UTC 2022 x86_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 .ini files	/etc/php/7.4/apache2/conf.d
Additional .ini files parsed	/etc/php/7.4/apache2/conf.d/10-mysqlnd.ini, /etc/php/7.4/apache2/conf.d/10-opcache.ini, /etc/php/7.4/apache2/conf.d/10-pdo.ini, /etc/php/7.4/apache2/conf.d/20-calendar.ini, /etc/php/7.4/apache2/conf.d/20-ctype.ini, /etc/php/7.4/apache2/conf.d/20-exif.ini, /etc/php/7.4/apache2/conf.d/20-ffi.ini, /etc/php/7.4/apache2/conf.d/20-fileinfo.ini, /etc/php/7.4/apache2/conf.d/20-ftp.ini, /etc/php/7.4/apache2/conf.d/20-gettext.ini, /etc/php/7.4/apache2/conf.d/20-iconv.ini, /etc/php/7.4/apache2/conf.d/20-json.ini, /etc/php/7.4/apache2/conf.d/20-mysqli.ini, /etc/php/7.4/apache2/conf.d/20-pdo_mysql.ini, /etc/php/7.4/apache2/conf.d/20-phar.ini, /etc/php/7.4/apache2/conf.d/20-posix.ini, /etc/php/7.4/apache2/conf.d/20-readline.ini, /etc/php/7.4/apache2/conf.d/20-shmop.ini, /etc/php/7.4/apache2/conf.d/20-sockets.ini, /etc/php/7.4/apache2/conf.d/20-sysvmsg.ini, /etc/php/7.4/apache2/conf.d/20-sysvsem.ini, /etc/php/7.4/apache2/conf.d/20-sysvshm.ini, /etc/php/7.4/apache2/conf.d/20-tokenizer.ini
PHP API	20190902
PHP Extension	20190902
Zend Extension	320190902
Zend Extension Build	API320190902,NTS
PHP Extension Build	API20190902,NTS

*virtual machine2 image connected to apache2

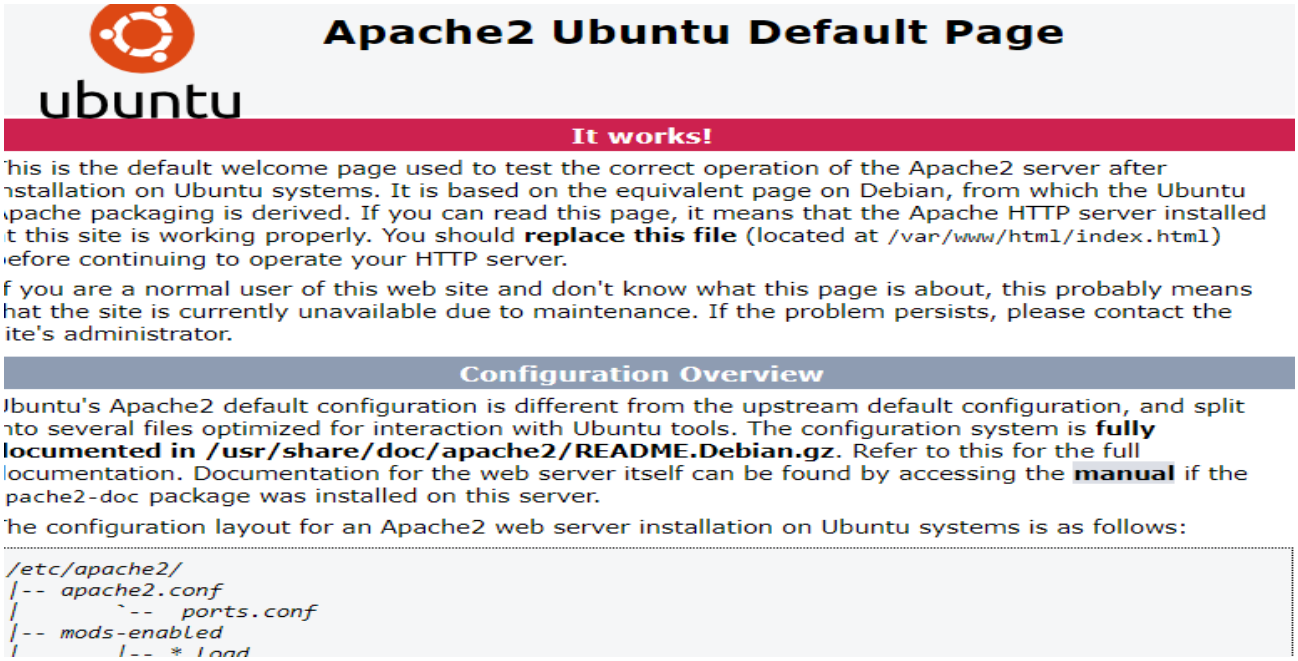
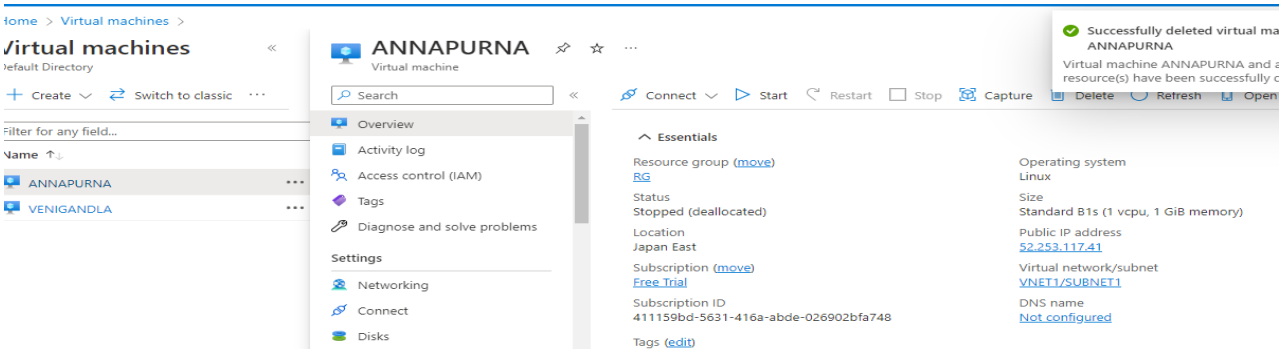


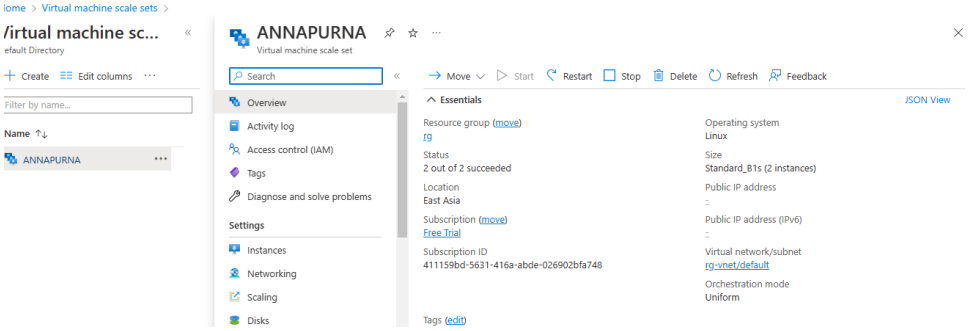
*IMAGE CONNECTED TO PHP

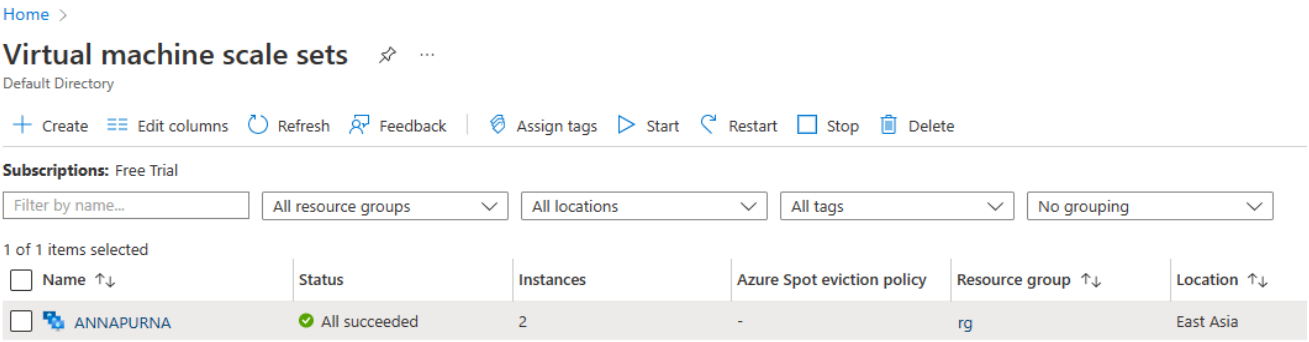
PHP Version 7.4.3

System	Linux VENIGANDLA 5.15.0-1029-azure #36~20.04.1-Ubuntu SMP Tue Dec 6 17:00:26 UTC 2022 x86_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 .ini files	/etc/php/7.4/apache2/conf.d
Additional .ini files parsed	/etc/php/7.4/apache2/conf.d/10-mysqlnd.ini, /etc/php/7.4/apache2/conf.d/10-opcache.ini, /etc/php/7.4/apache2/conf.d/10-pdo.ini, /etc/php/7.4/apache2/conf.d/20-calendar.ini, /etc/php/7.4/apache2/conf.d/20-ctype.ini, /etc/php/7.4/apache2/conf.d/20-exif.ini, /etc/php/7.4/apache2/conf.d/ffi.ini, /etc/php/7.4/apache2/conf.d/20-fileinfo.ini, /etc/php/7.4/apache2/conf.d/20-ftp.ini, /etc/php/7.4/apache2/conf.d/20-gd.ini, /etc/php/7.4/apache2/conf.d/20-gettext.ini, /etc/php/7.4/apache2/conf.d/iconv.ini, /etc/php/7.4/apache2/conf.d/20-json.ini, /etc/php/7.4/apache2/conf.d/20-mysqli.ini, /etc/php/7.4/apache2/conf.d/20-pdo_mysql.ini, /etc/php/7.4/apache2/conf.d/20-phar.ini, /etc/php/7.4/apache2/conf.d/20-posix.ini, /etc/php/7.4/apache2/conf.d/20-readline.ini, /etc/php/7.4/apache2/conf.d/20-shmop.ini, /etc/php/7.4/apache2/conf.d/20-sockets.ini, /etc/php/7.4/apache2/conf.d/20-sysvmsg.ini, /etc/php/7.4/apache2/conf.d/20-sysvsem.ini, /etc/php/7.4/apache2/conf.d/20-sysvshm.ini, /etc/php/7.4/apache2/conf.d/20-tokenizer.ini
PHP API	20190902
PHP Extension	20190902
Zend Extension	320190902
Zend Extension Build	API320190902,NTS
PHP Extension Build	API20190902,NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	enabled
Zend Memory Manager	enabled



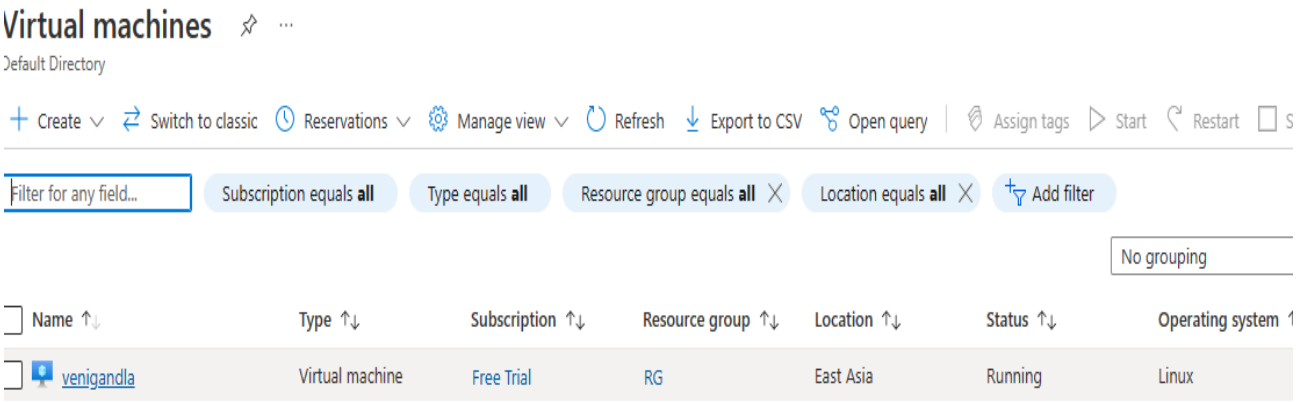
VIRTUAL MACHINE SCALE SET



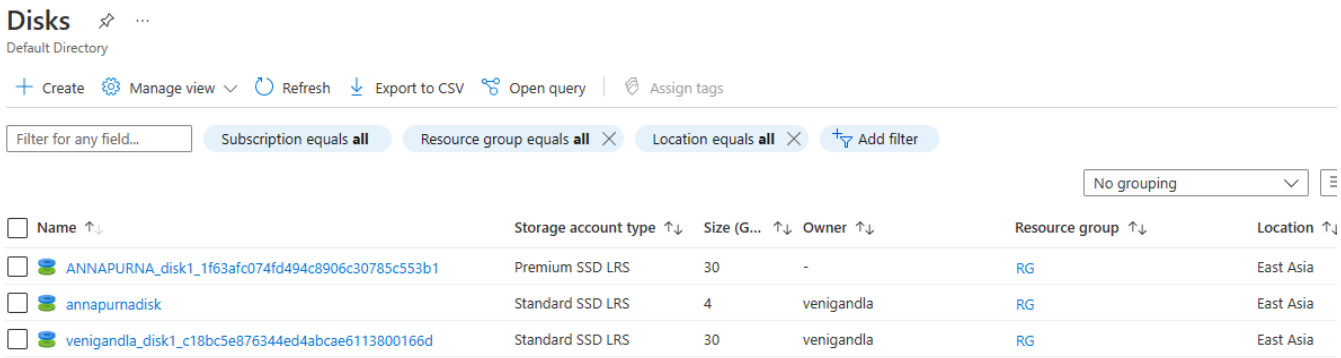


AZURE EBS

*create a virtual mission



*create a disk



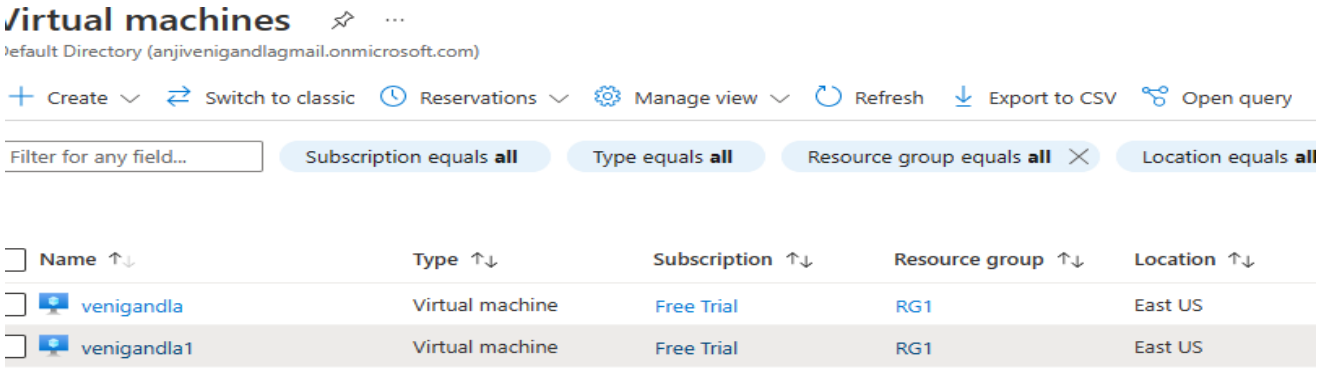
*disk is mount to VM

```
oot@venigandla:/home/venigandla# mount -t ext4 /dev/sdc venigandladisk
oot@venigandla:/home/venigandla# lsblk
AME    MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
oop0     7:0    0 63.2M  1 loop /snap/core20/1738
oop1     7:1    0 91.9M  1 loop /snap/lxd/24061
oop2     7:2    0 49.6M  1 loop /snap/snapd/17883
da       8:0    0   30G  0 disk
-sda1    8:1    0 29.9G  0 part /
-sda14   8:14   0    4M  0 part
-sda15   8:15   0  106M  0 part /boot/efi
db       8:16   0    4G  0 disk
-sdb1    8:17   0    4G  0 part /mnt
dc       8:32   0    4G  0 disk /home/venigandla/venigandladisk
r0      11:0    1  628K  0 rom
```

*create a touch files in venigandlaVM

```
ot@venigandla:/home/venigandla# ls -ltr
tal 4
wxr-xr-x 3 root root 4096 Jan  2 14:46 venigandladisk
w-r--r-- 1 root root    0 Jan  2 14:46 cd
w-r--r-- 1 root root    0 Jan  2 14:48 5.txt
w-r--r-- 1 root root    0 Jan  2 14:48 4.txt
w-r--r-- 1 root root    0 Jan  2 14:48 3.txt
w-r--r-- 1 root root    0 Jan  2 14:48 2.txt
w-r--r-- 1 root root    0 Jan  2 14:48 1.txt
ot@venigandla:/home/venigandla#
```

*create a another VM



*same disk is mount to another VM

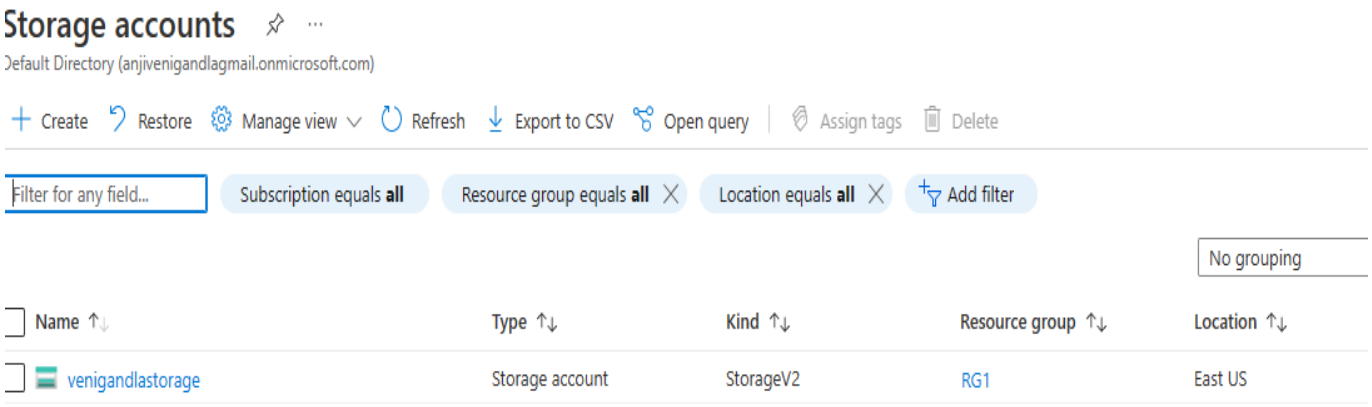
```
dev/loop2      squashfs   50M   50M     0 100% /snap/snapd/17883
dev/sda15      vfat      105M  5.2M  100M   5% /boot/efi
dev/sdb1       ext4      3.9G   28K  3.7G   1% /mnt
mpfs           tmpfs      91M     0   91M   0% /run/user/1000
dev/sdc        ext4      3.9G   24K  3.7G   1% /home/venigandla1/venigandladisk
oot@venigandla1:/home/venigandla1#
```

*unmount the disk

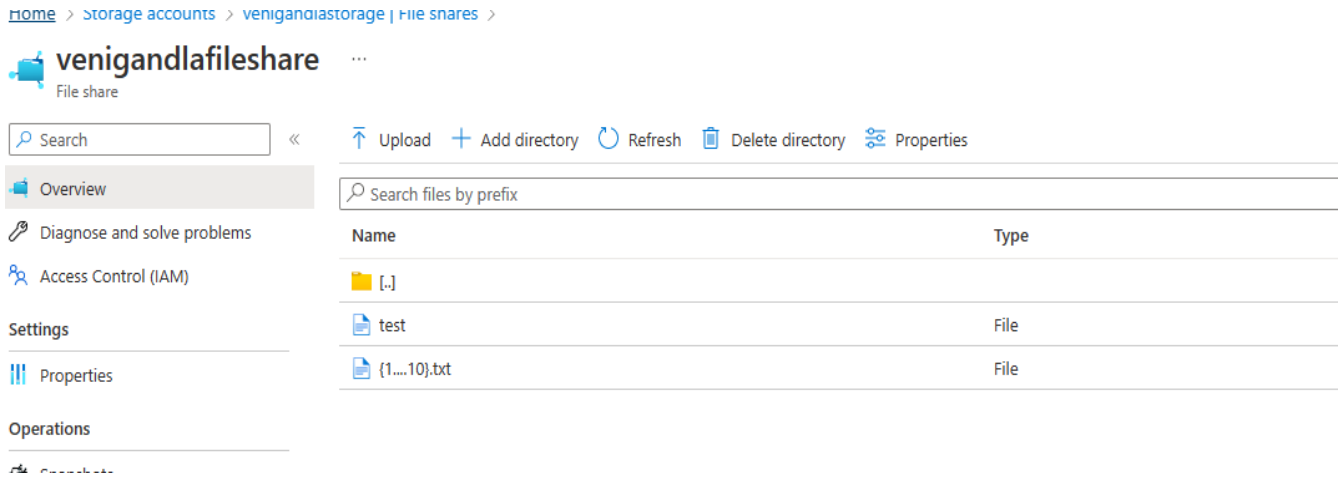
```
oot@venigandla1:/home/venigandla1# lsblk
AME      MAJ:MIN  RM   SIZE  RO  TYPE  MOUNTPOINT
oop0       7:0     0  63.2M   1  loop  /snap/core20/1738
oop1       7:1     0  91.9M   1  loop  /snap/lxd/24061
oop2       7:2     0  49.6M   1  loop  /snap/snapd/17883
da         8:0     0    30G   0  disk
-sda1      8:1     0  29.9G   0  part  /
-sda14     8:14    0     4M   0  part
-sda15     8:15    0   106M   0  part  /boot/efi
db         8:16    0     4G   0  disk
-sdb1      8:17    0     4G   0  part  /mnt
dc         8:32    0     4G   0  disk
-0        11:0     1   628K   0  rom
oot@venigandla1:/home/venigandla1#
```

AZURE STORAGE

*CREATE A STORAGE ACCOUNT

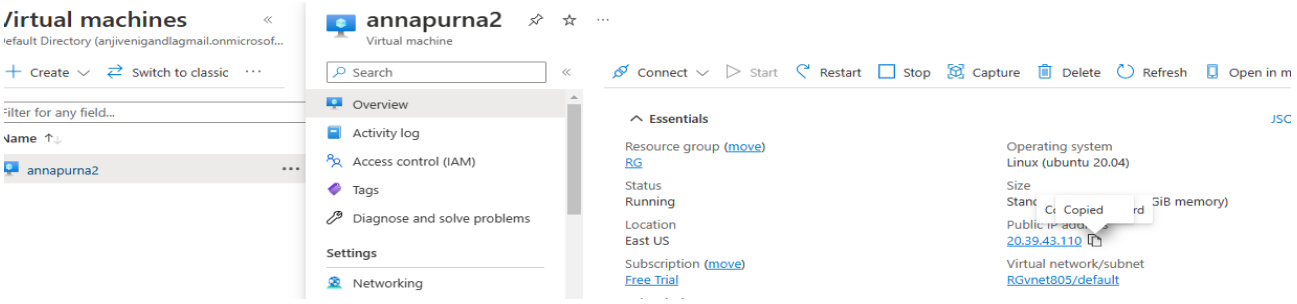


*add the file shre

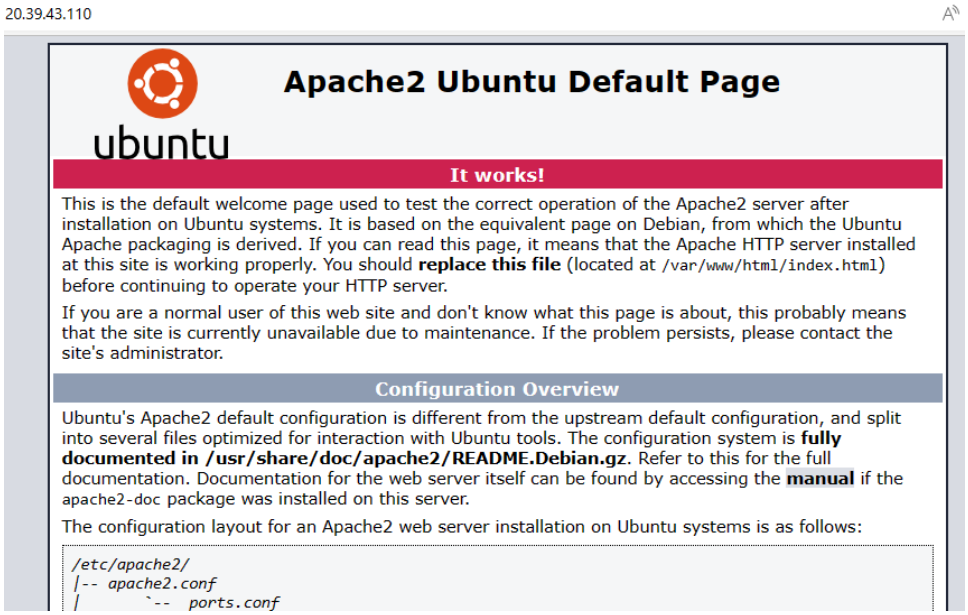


RESIZE (LINUX)

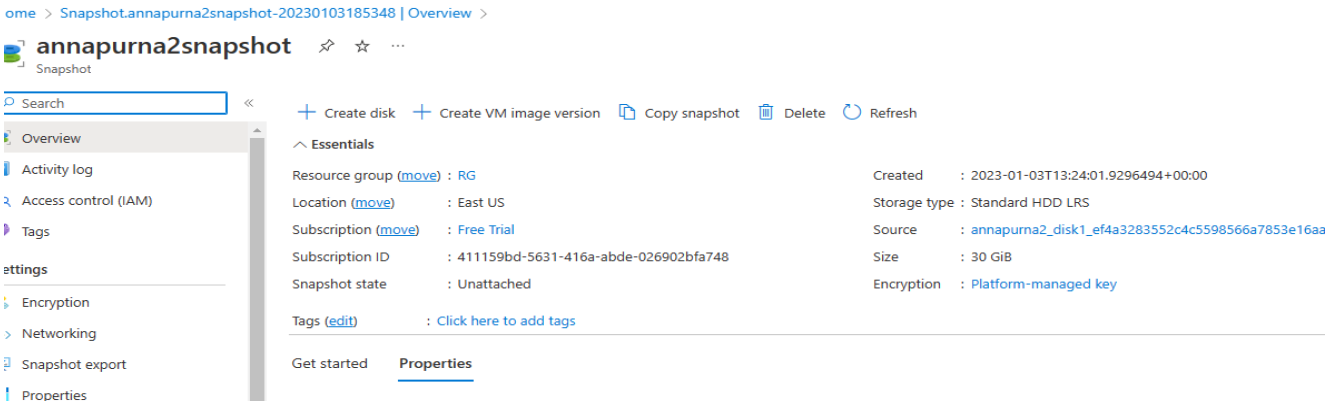
*CREATE VIRTUAL MISSION



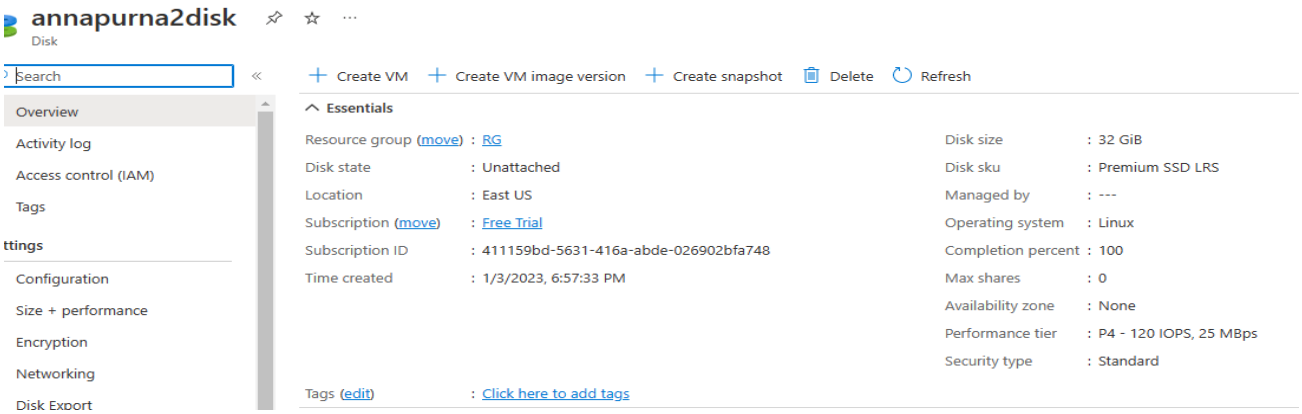
*VM IS CONNECT TO WEB



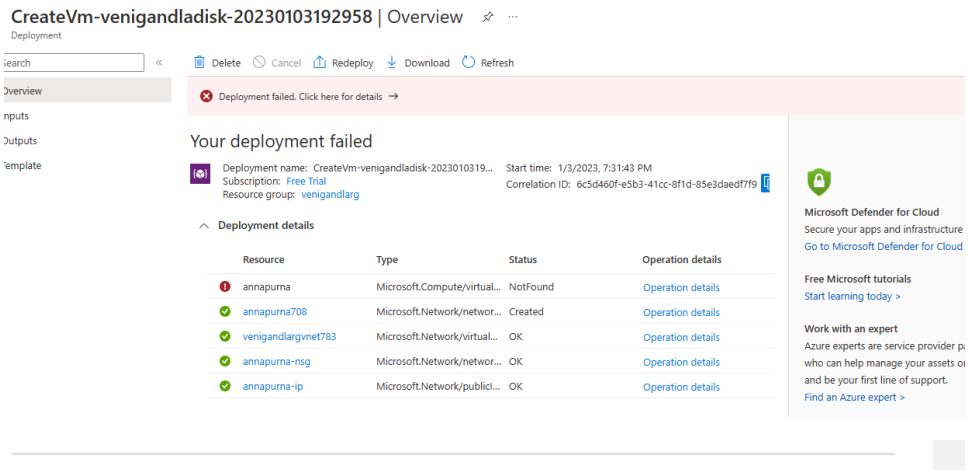
*create a snapshot on disk of VM



*create disk on the snapshot of VM



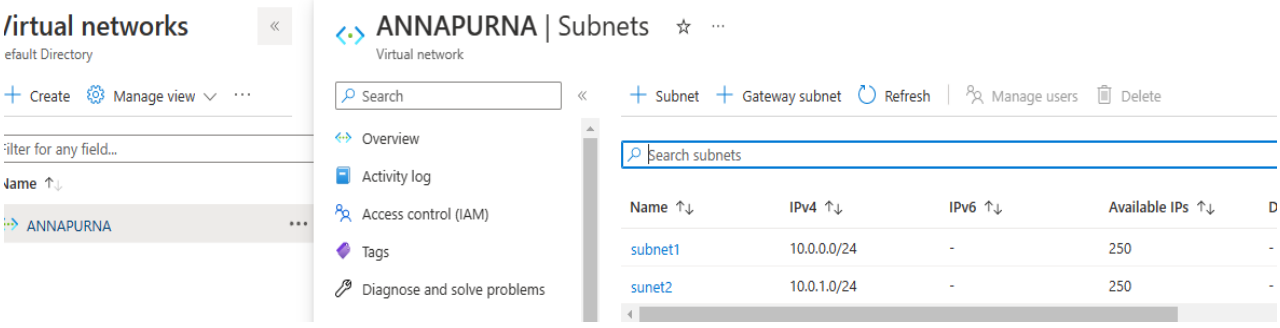
*CREATE A vm ON THE DISK ON THE SNAPSHOT OF vm



INTERNAL DNS

* create resource group

*create a Vnet



*create a VM

Virtual machines

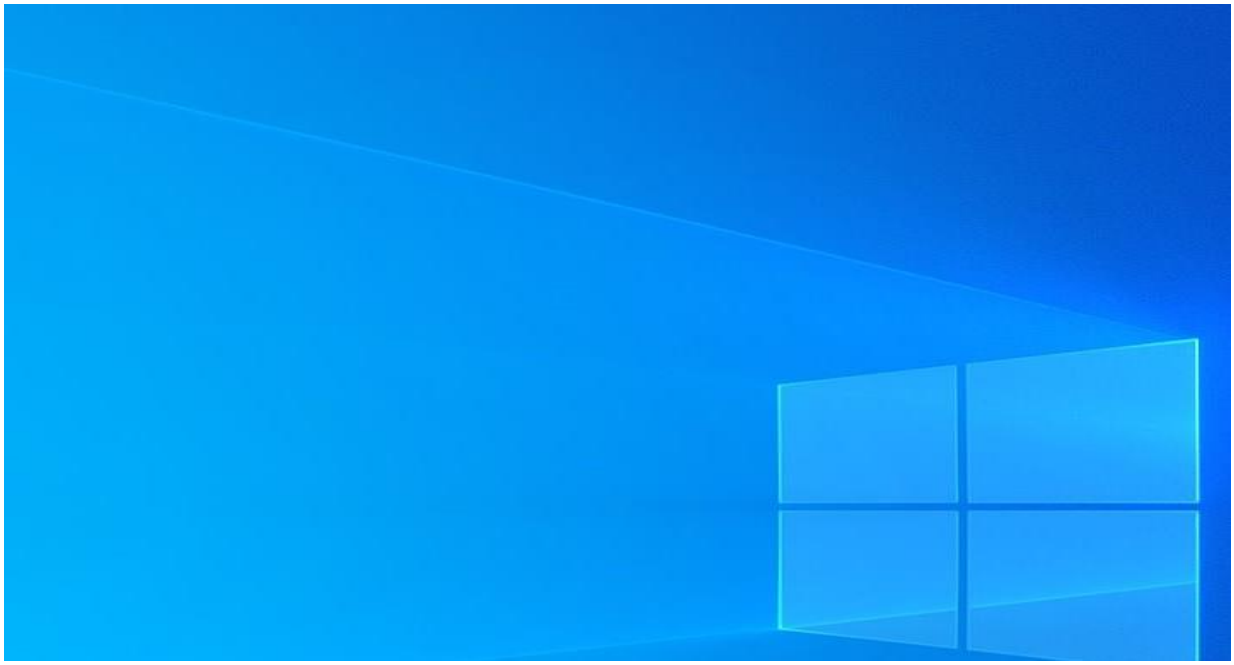
Default Directory

Create | Switch to classic | Reservations | Manage view | Refresh | Export to CSV | Open query | Assign tags

Filter for any field... | Subscription equals **all** | Type equals **all** | Resource group equals **all** | Location equals **all** | Add filter

Name	Type	Subscription	Resource group	Location	Status
annapurna	Virtual machine	Free Trial	ANNAPURNA	Japan East	Running
venigandla1	Virtual machine	Free Trial	ANNAPURNA	Japan East	Running

*connect to windows



My laptop is no supporting sir .