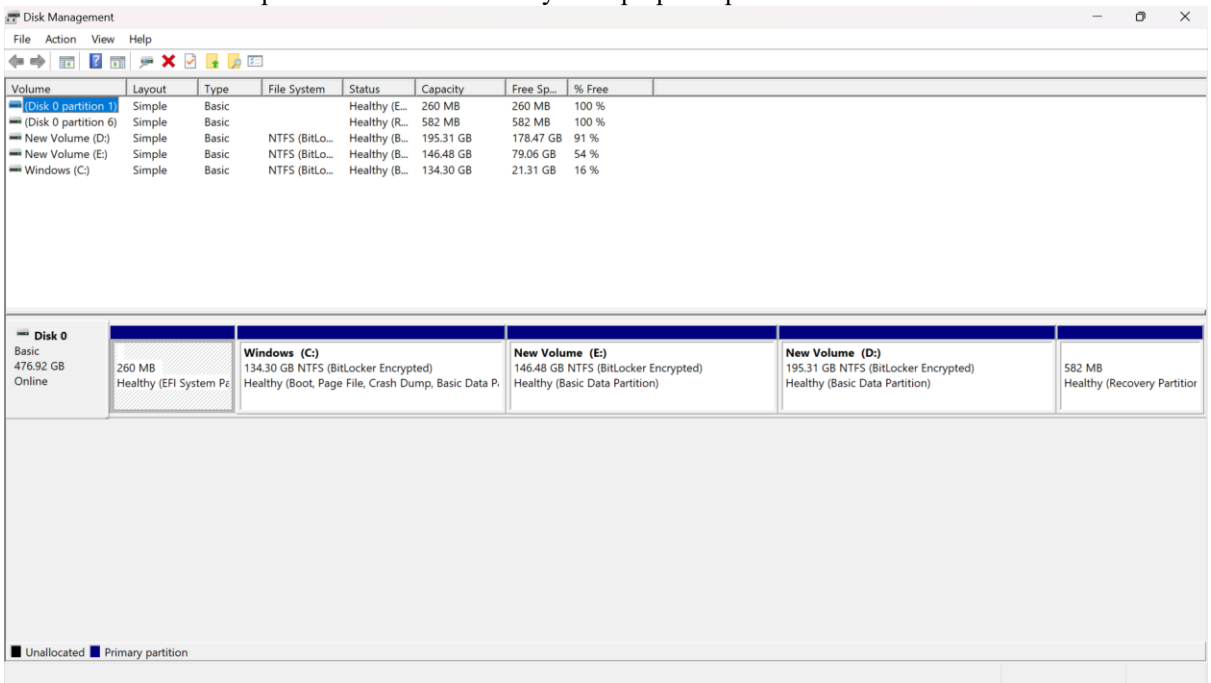
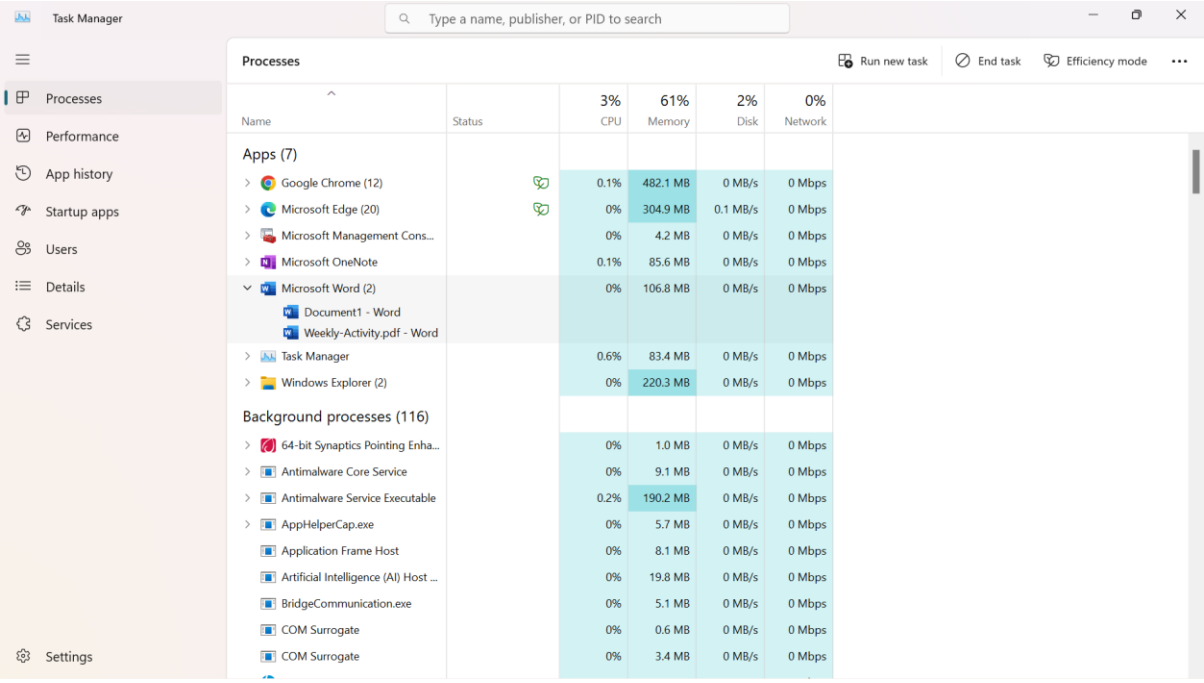
Roll Number : 22P31A4244
Name : TADI V V DURGA HARI PRASAD REDDY

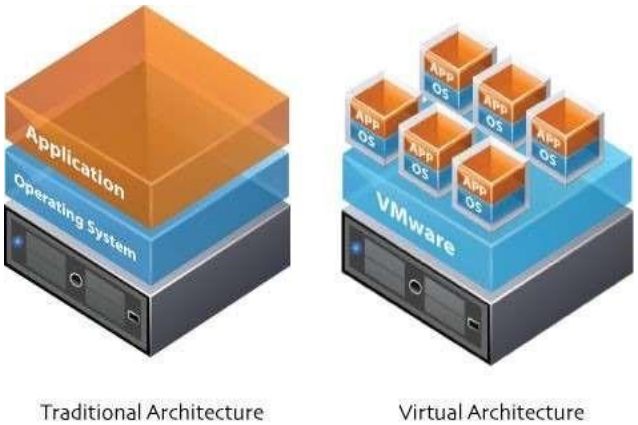
1.Take a screenshot of partitions information in your laptop and paste here



2. Post the screenshot of memory and CPU usage of Microsoft word running in your laptop



3. What the name of hypervisor mentioned in below picture



A. VMware hypervisor

4. One IT company maintains a Dell Power Edge rack server with below configuration:

- 256 GB RAM
- Intel Xeon processor with 50 cores
- 10 TB SSD

The company requirement is to accommodate 20000 users to the application and system administrator is tasked to create servers to accordingly. The users per server should not be more than 2000 assuming that 10GB of RAM supports 1000 concurrent users.

If you are the system administrator of the company, what will you suggest for following:

1. How many no.of VMs to be created .?

A. 10

2. What would the configuration of VMs that you create .?

A. 20GB

3. Which Operating System do you suggest for servers .?

A. 5 CORES

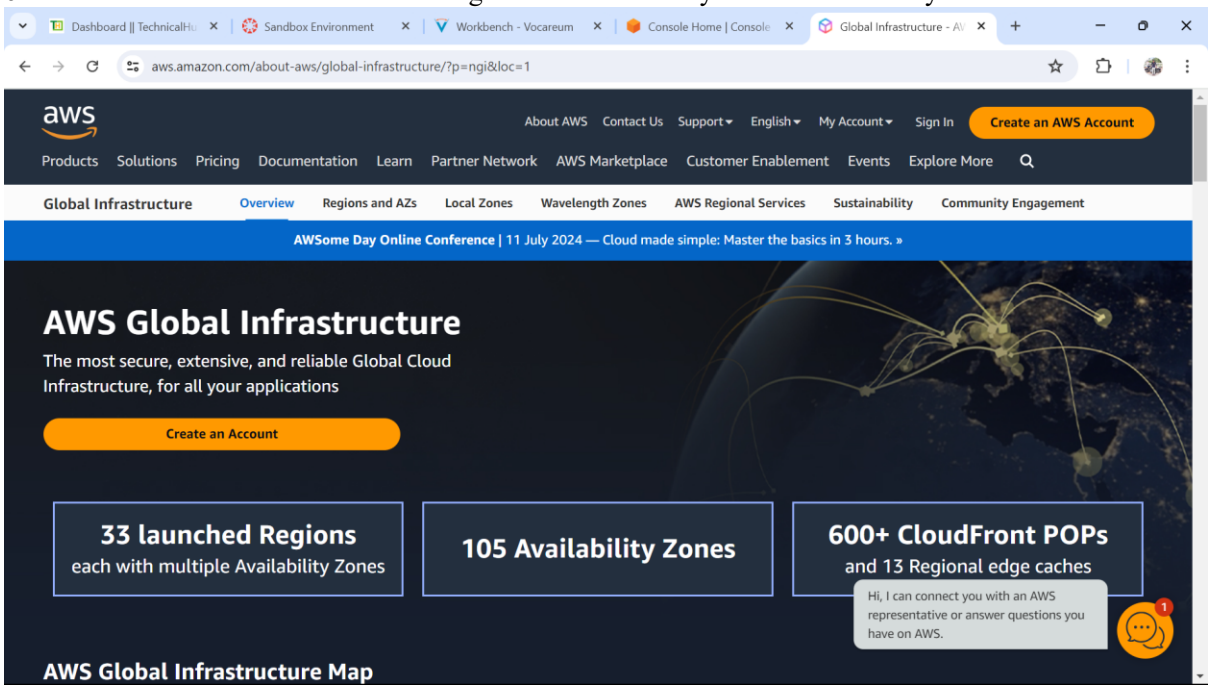
4. What would you suggest to maintain High Availability of application that runs on this server .?

A. 1TB

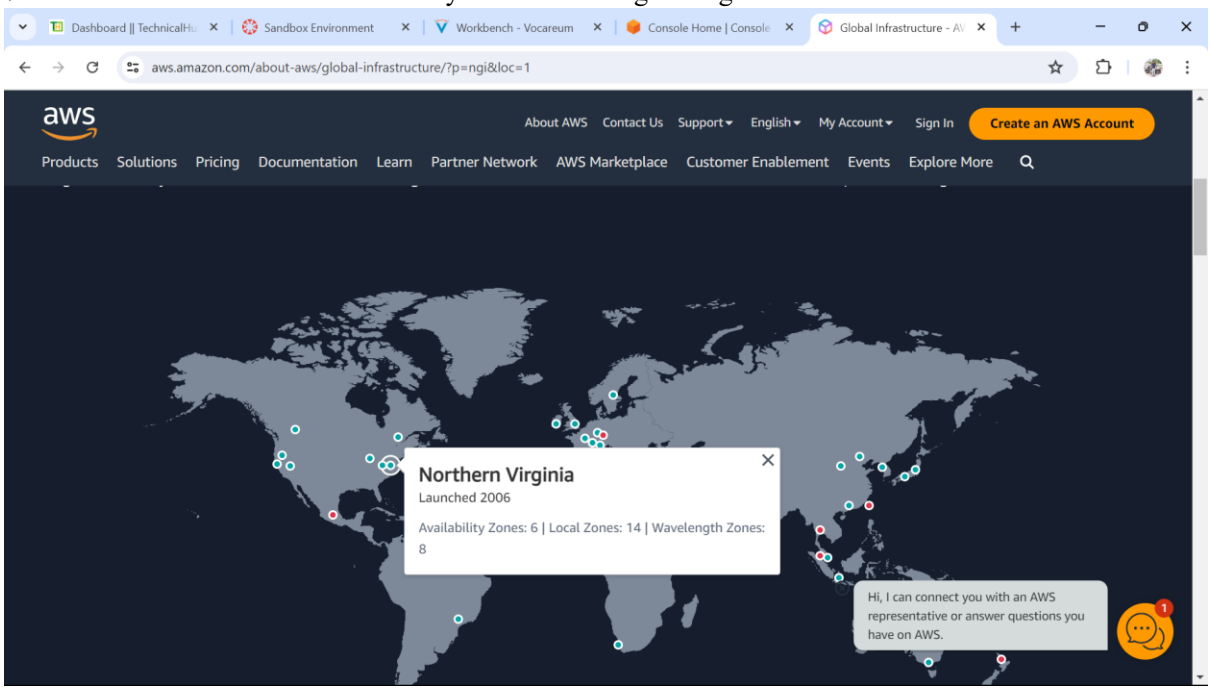
5. Scenario: Setting up a new application infrastructure Imagine you're part of a team tasked with setting up a new web application for a growing e□commerce company. The application is expected to handle a large number of concurrent users and process a significant amount of data for transactions. As a crucial first step, you need to determine the optimal server characteristics to ensure the application runs smoothly and efficiently. Hence, point out server characteristics that are essential to maintain the same.

A. use cloud computing

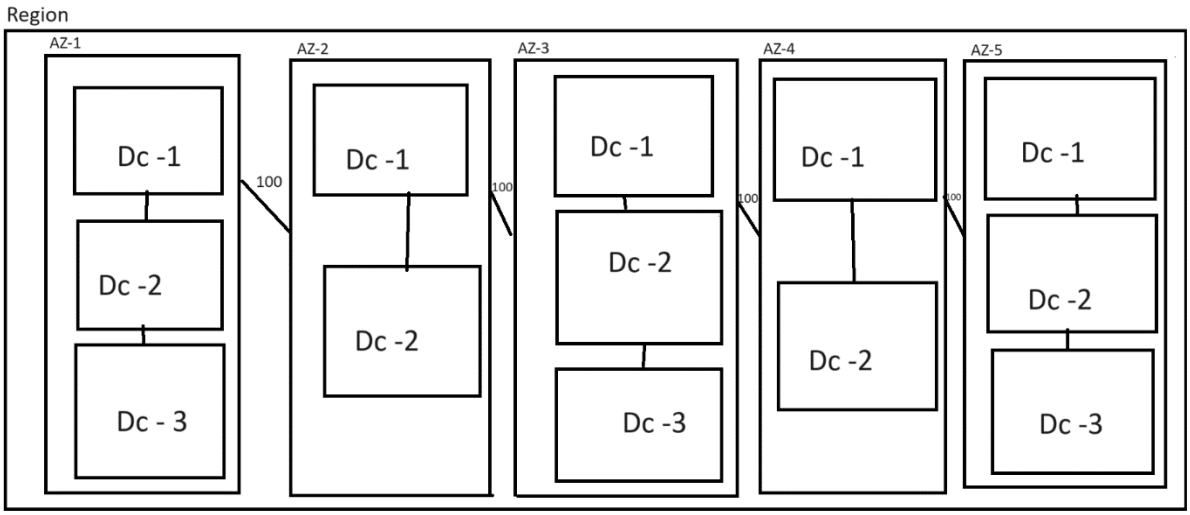
6.Provide the screenshot of no.of AWS regions and Availability Zones as of the day



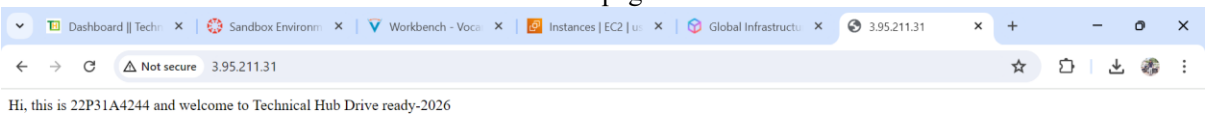
7. Provide the screen shot of Availability Zones in N.Virginia region



8. Draw the sample region of AWS Global infrastructure hierarchy in MS Paint and provide screenshot here

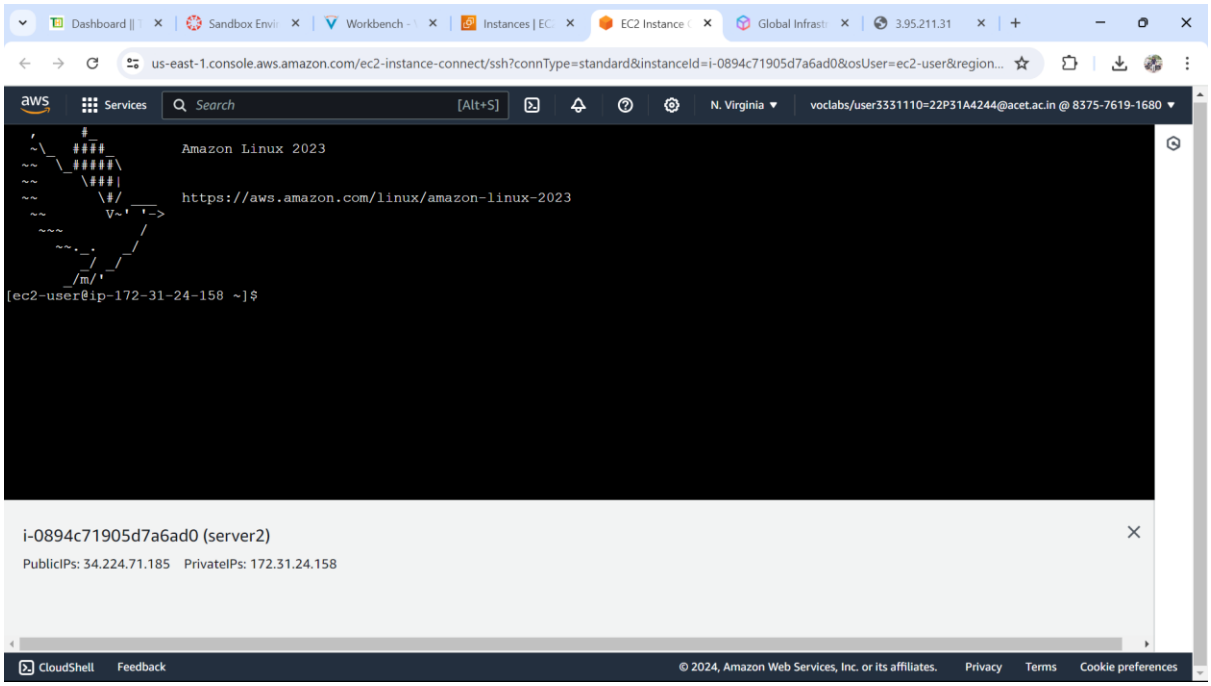


9. Launch the ubuntu VM with following configuration
a. Ubuntu latest version
b. Free tier t2 type VM
c. us-east-1f availability zone
d. download pem format key file
e. user data should contain following line in webpage
Hi, this is and welcome to Technical Hub Drive ready-2026
Provide the screenshot of userdata and launched webpage.

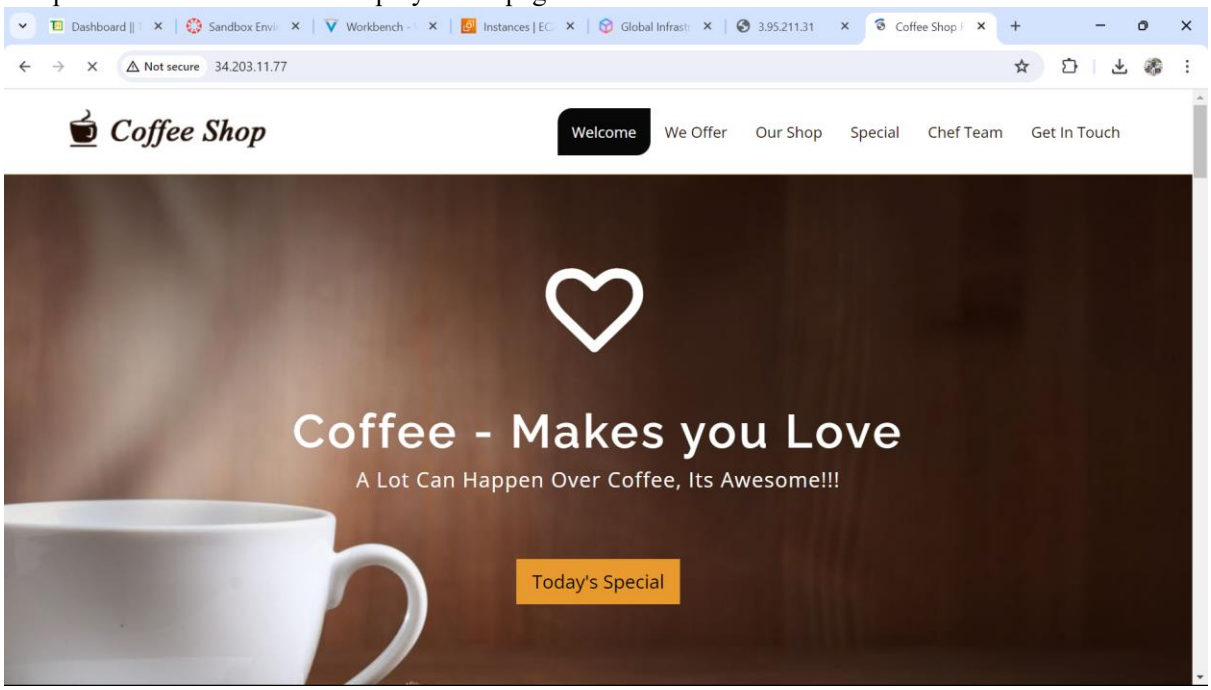


---

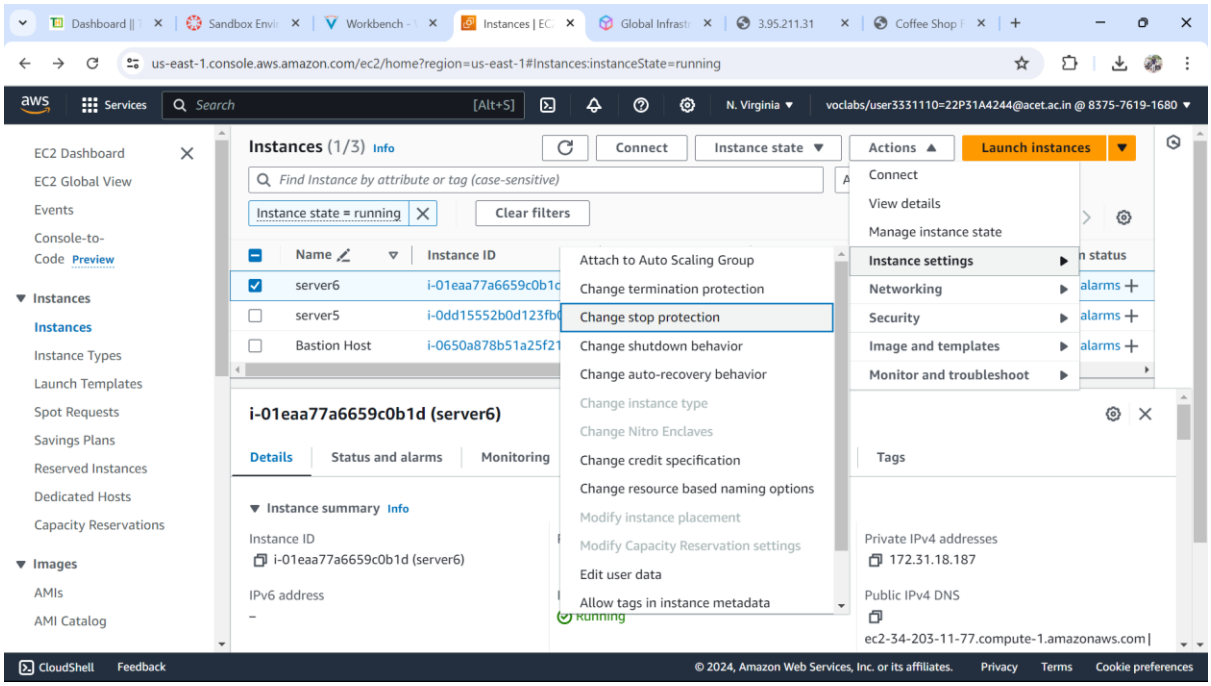
10. Connect to the same linux VM from windows command mode (not from mobaXterm) and provide the screen shot



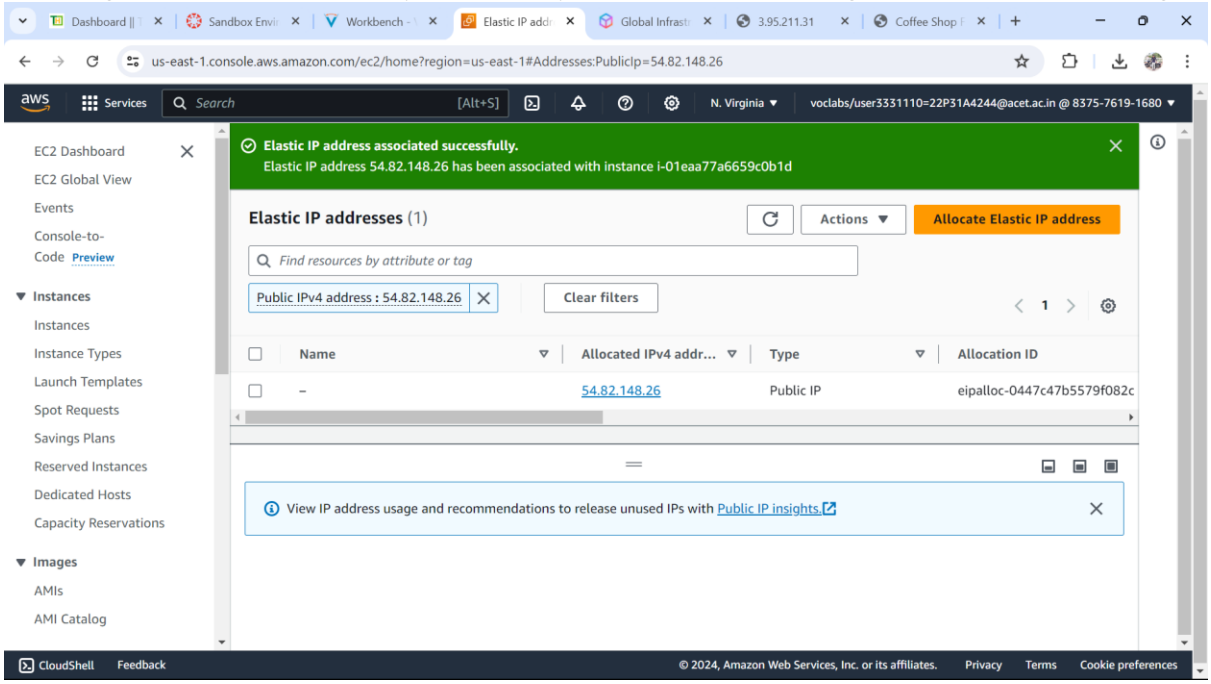
11.Delete the index.html file and transfer a sample web template of your choice to linux VM using SFTP and provide the screen shot of deployed webpage



12.Protect the VMs from accidental shutdown and deletion



13.Configure the webserver in a way that even if you turn off and turn on again, the IP should not change



14.Provide the screen shots of following outputs:

a. Calendar of July 2024
b. Time and date with one command
c. Change the timestamp of a file
d. Create 5 empty files with one command
e. Edit any one file with vim and write one line of content and save, exit
f. Use necessary command to write the second line into same file without replacing existing line
g. Change the file permissions using numeric permissions format that users should have read-only permissions, group execute and others no permissions
h. Create a user with your name and provide the screenshot of user id from user information file

3.90.16.211 (ec2-user)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help X server Exit

Quick connect...

/home/ec2-user/

Name
..
.ssh
.bash_history
.bash_logout
.bash_profile
.bashrc

Remote monitoring

Follow terminal folder

23 3.90.16.211 (ec2-user)

```
                • MobaXterm Personal Edition v24.1 •
              (SSH client, X server and network tools)

 ▸ SSH session to ec2-user@3.90.16.211
   • Direct SSH      :  ✓
   • SSH compression :  ✓
   • SSH-browser     :  ✓
   • X11-forwarding  :  ✗  (disabled or not supported by server)

 ▸ For more info, ctrl+click on help or visit our website.


       #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
Last login: Sat Jun 29 05:57:06 2024 from 117.250.198.87
[ec2-user@ip-172-31-29-83 ~]$ sudo su
[root@ip-172-31-29-83 ec2-user]# cal 07 2024
      July 2024
Su Mo Tu We Th Fr Sa
    1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

[root@ip-172-31-29-83 ec2-user]#
```

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

3.90.16.211 (ec2-user)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help X server Exit

Quick connect...

/home/ec2-user/

Name
..
.ssh
.bash_history
.bash_logout
.bash_profile
.bashrc

Remote monitoring

Follow terminal folder

23 3.90.16.211 (ec2-user)

```
   • SSH-browser     :  ✓
   • X11-forwarding  :  ✗  (disabled or not supported by server)

 ▸ For more info, ctrl+click on help or visit our website.


       #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
Last login: Sat Jun 29 05:57:06 2024 from 117.250.198.87
[ec2-user@ip-172-31-29-83 ~]$ sudo su
[root@ip-172-31-29-83 ec2-user]# cal 07 2024
      July 2024
Su Mo Tu We Th Fr Sa
    1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
```

```
[root@ip-172-31-29-83 ec2-user]# timedatectl
               Local time: Sat 2024-06-29 06:44:40 UTC
           Universal time: Sat 2024-06-29 06:44:40 UTC
                 RTC time: Sat 2024-06-29 06:44:40
                Time zone: n/a (UTC, +0000)
System clock synchronized: yes
              NTP service: active
          RTC in local TZ: no
[root@ip-172-31-29-83 ec2-user]#
```

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

3.90.16.211 (ec2-user)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help X server Exit

Quick connect...

23. 3.90.16.211 (ec2-user)

/home/ec2-user/

Name
..
.ssh
.bash_history
.bash_logout
.bash_profile
.bashrc

Remote monitoring

Follow terminal folder

```
       #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
Last login: Sat Jun 29 05:57:06 2024 from 117.250.198.87
[ec2-user@ip-172-31-29-83 ~]$ sudo su
[root@ip-172-31-29-83 ec2-user]# cal 07 2024
      July 2024
Su Mo Tu We Th Fr Sa
    1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

[root@ip-172-31-29-83 ec2-user]# timedatectl
               Local time: Sat 2024-06-29 06:44:40 UTC
           Universal time: Sat 2024-06-29 06:44:40 UTC
                 RTC time: Sat 2024-06-29 06:44:40
                Time zone: n/a (UTC, +0000)
System clock synchronized: yes
              NTP service: active
          RTC in local TZ: no
[root@ip-172-31-29-83 ec2-user]# cat > file1
hsjsjj^Z
[1]+  Stopped                 cat > file1
[root@ip-172-31-29-83 ec2-user]# touch file1
[root@ip-172-31-29-83 ec2-user]#
```

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

3.90.16.211 (ec2-user)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help X server Exit

Quick connect...

23. 3.90.16.211 (ec2-user)

/home/ec2-user/

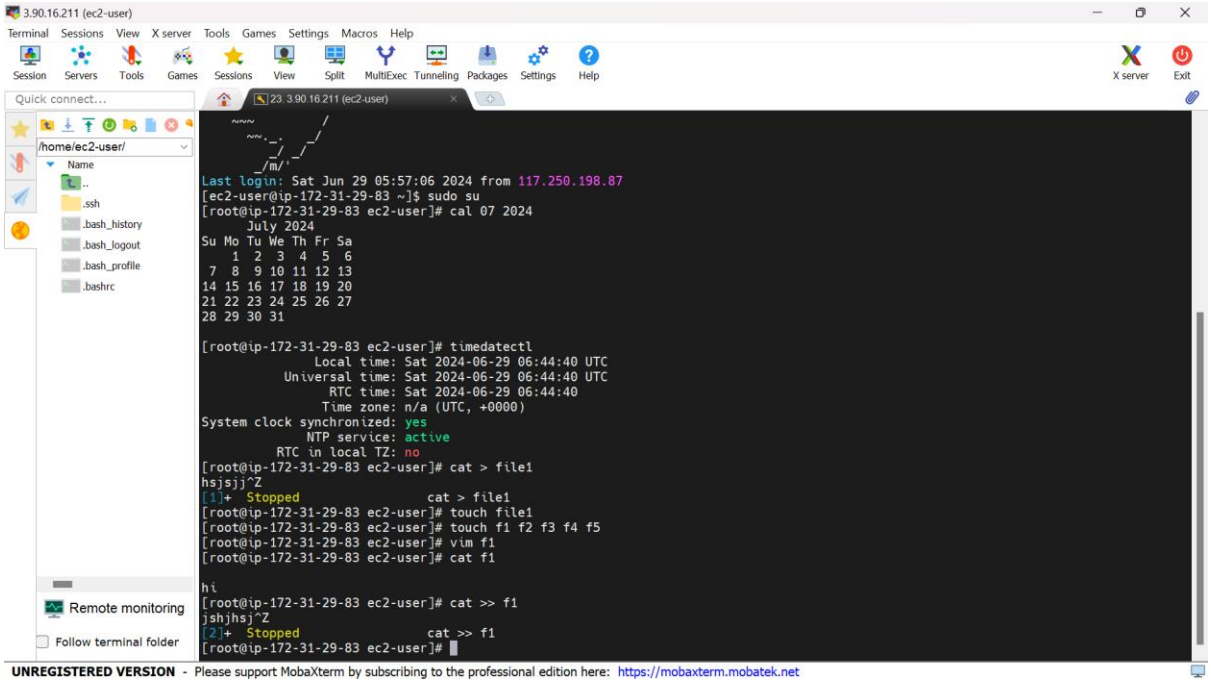
Name
..
.ssh
.bash_history
.bash_logout
.bash_profile
.bashrc

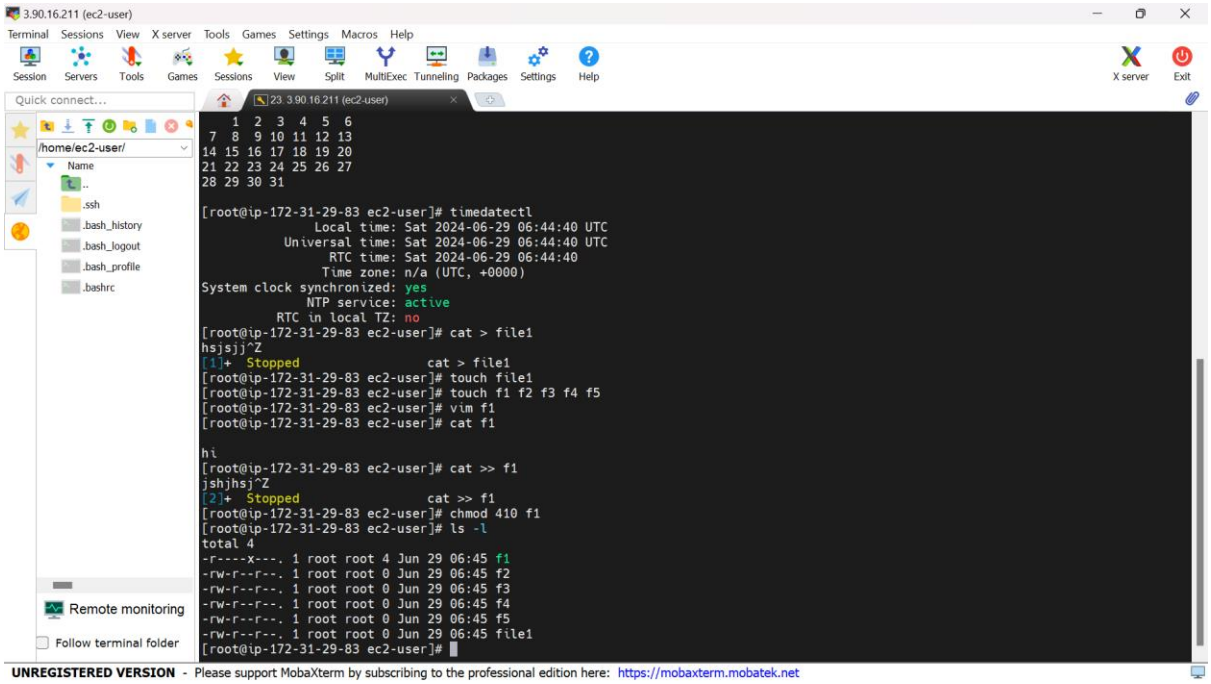
Remote monitoring

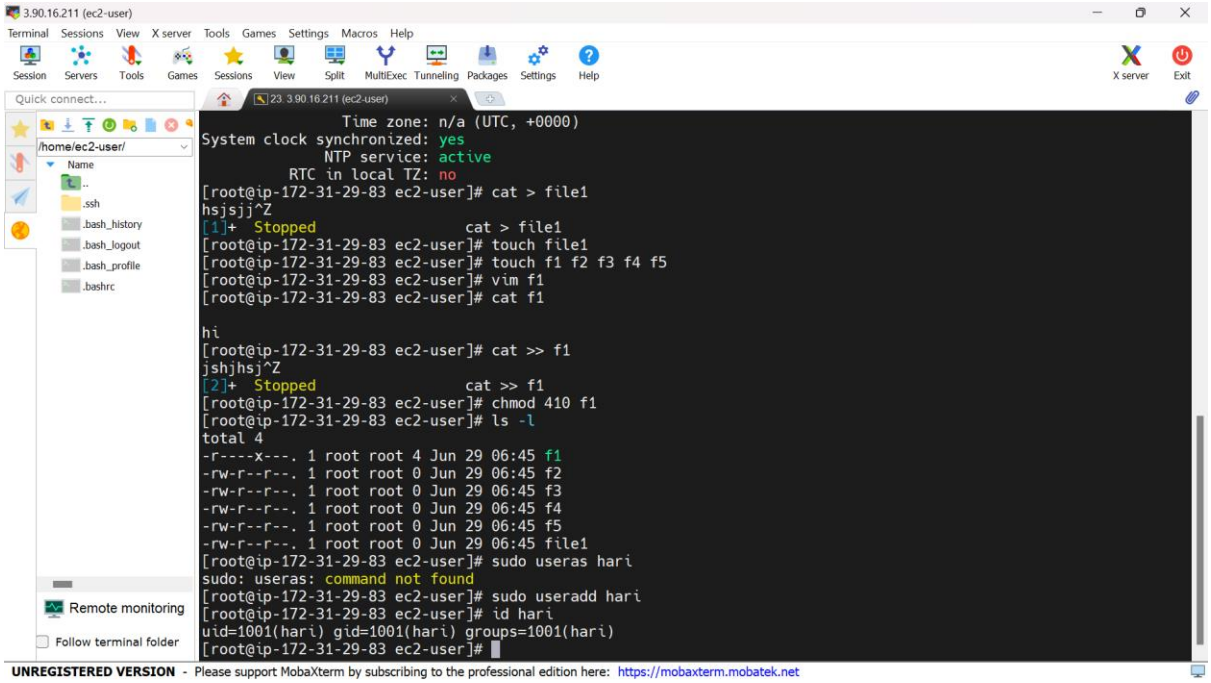
Follow terminal folder

```
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
Last login: Sat Jun 29 05:57:06 2024 from 117.250.198.87
[ec2-user@ip-172-31-29-83 ~]$ sudo su
[root@ip-172-31-29-83 ec2-user]# cal 07 2024
      July 2024
Su Mo Tu We Th Fr Sa
    1  2  3  4  5  6
 7  8  9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31

[root@ip-172-31-29-83 ec2-user]# timedatectl
               Local time: Sat 2024-06-29 06:44:40 UTC
           Universal time: Sat 2024-06-29 06:44:40 UTC
                 RTC time: Sat 2024-06-29 06:44:40
                Time zone: n/a (UTC, +0000)
System clock synchronized: yes
              NTP service: active
          RTC in local TZ: no
[root@ip-172-31-29-83 ec2-user]# cat > file1
hsjsjj^Z
[1]+  Stopped                 cat > file1
[root@ip-172-31-29-83 ec2-user]# touch file1
[root@ip-172-31-29-83 ec2-user]# touch f1 f2 f3 f4 f5
[root@ip-172-31-29-83 ec2-user]# vim f1
[root@ip-172-31-29-83 ec2-user]# cat f1

hi
[root@ip-172-31-29-83 ec2-user]#
```

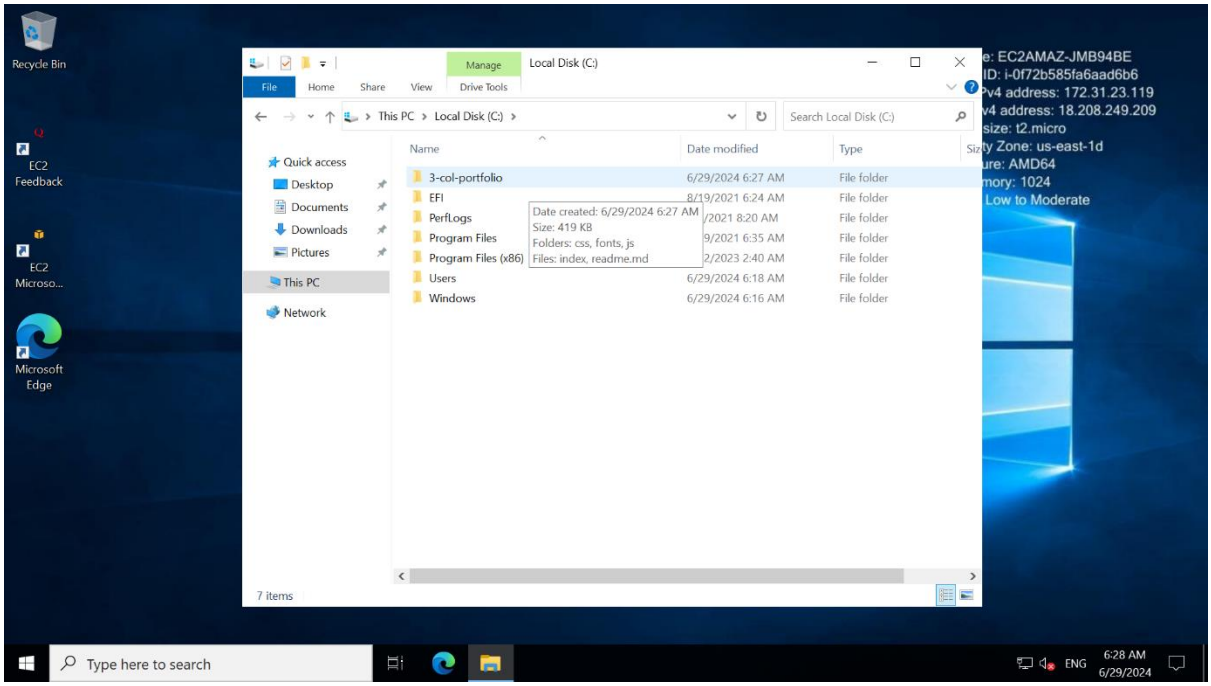
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net


3.90.16.211 (ec2-user)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help X server Exit
Quick connect...
23. 3.90.16.211 (ec2-user)
/home/ec2-user/
Name
..
.ssh
.bash_history
.bash_logout
.bash_profile
.bashrc
Remote monitoring
Follow terminal folder
Last login: Sat Jun 29 05:57:06 2024 from 117.250.198.87
[ec2-user@ip-172-31-29-83 ~]$ sudo su
[root@ip-172-31-29-83 ec2-user]# cal 07 2024
July 2024
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
[root@ip-172-31-29-83 ec2-user]# timedatectl
Local time: Sat 2024-06-29 06:44:40 UTC
Universal time: Sat 2024-06-29 06:44:40 UTC
RTC time: Sat 2024-06-29 06:44:40
Time zone: n/a (UTC, +0000)
System clock synchronized: yes
NTP service: active
RTC in local TZ: no
[root@ip-172-31-29-83 ec2-user]# cat > file1
hsjsjj^Z
[1]+ Stopped cat > file1
[root@ip-172-31-29-83 ec2-user]# touch file1
[root@ip-172-31-29-83 ec2-user]# touch f1 f2 f3 f4 f5
[root@ip-172-31-29-83 ec2-user]# vim f1
[root@ip-172-31-29-83 ec2-user]# cat f1
hi
[root@ip-172-31-29-83 ec2-user]# cat >> f1
jshjhsj^Z
[2]+ Stopped cat >> f1
[root@ip-172-31-29-83 ec2-user]#
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net


3.90.16.211 (ec2-user)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help X server Exit
Quick connect...
23. 3.90.16.211 (ec2-user)
/home/ec2-user/
Name
..
.ssh
.bash_history
.bash_logout
.bash_profile
.bashrc
Remote monitoring
Follow terminal folder
1 2 3 4 5 6
7 8 9 10 11 12 13
14 15 16 17 18 19 20
21 22 23 24 25 26 27
28 29 30 31
[root@ip-172-31-29-83 ec2-user]# timedatectl
Local time: Sat 2024-06-29 06:44:40 UTC
Universal time: Sat 2024-06-29 06:44:40 UTC
RTC time: Sat 2024-06-29 06:44:40
Time zone: n/a (UTC, +0000)
System clock synchronized: yes
NTP service: active
RTC in local TZ: no
[root@ip-172-31-29-83 ec2-user]# cat > file1
hsjsjj^Z
[1]+ Stopped cat > file1
[root@ip-172-31-29-83 ec2-user]# touch file1
[root@ip-172-31-29-83 ec2-user]# touch f1 f2 f3 f4 f5
[root@ip-172-31-29-83 ec2-user]# vim f1
[root@ip-172-31-29-83 ec2-user]# cat f1
hi
[root@ip-172-31-29-83 ec2-user]# cat >> f1
jshjhsj^Z
[2]+ Stopped cat >> f1
[root@ip-172-31-29-83 ec2-user]# chmod 410 f1
[root@ip-172-31-29-83 ec2-user]# ls -l
total 4
-r----x---. 1 root root 4 Jun 29 06:45 f1
-rw-r--r--. 1 root root 0 Jun 29 06:45 f2
-rw-r--r--. 1 root root 0 Jun 29 06:45 f3
-rw-r--r--. 1 root root 0 Jun 29 06:45 f4
-rw-r--r--. 1 root root 0 Jun 29 06:45 f5
-rw-r--r--. 1 root root 0 Jun 29 06:45 file1
[root@ip-172-31-29-83 ec2-user]#
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net



15.Launch the Windows server latest version and connect to it that should be able to copy a small sample file from your laptop to windows VM.


Recycle Bin
EC2 Feedback
EC2 Microso...
Microsoft Edge
Manage
Local Disk (C:)
File
Home
Share
View
Drive Tools
This PC > Local Disk (C:) >
Search Local Disk (C:)
Quick access
Desktop
Documents
Downloads
Pictures
This PC
Network
Name
Date modified
Type
3-col-portfolio 6/29/2024 6:27 AM File folder
EFI 8/19/2021 6:24 AM File folder
PerfLogs /2021 8:20 AM File folder
Program Files 9/2021 6:35 AM File folder
Program Files (x86) 2/2023 2:40 AM File folder
Users 6/29/2024 6:18 AM File folder
Windows 6/29/2024 6:16 AM File folder
Date created: 6/29/2024 6:27 AM
Size: 419 KB
Folders: css, fonts, js
Files: index, readme.md
7 items
e: EC2AMAZ-JMB94BE
ID: i-0f72b585fa6aad6b6
v4 address: 172.31.23.119
v4 address: 18.208.249.209
size: t2.micro
ty Zone: us-east-1d
ure: AMD64
mory: 1024
Low to Moderate
Type here to search
ENG
6:28 AM
6/29/2024