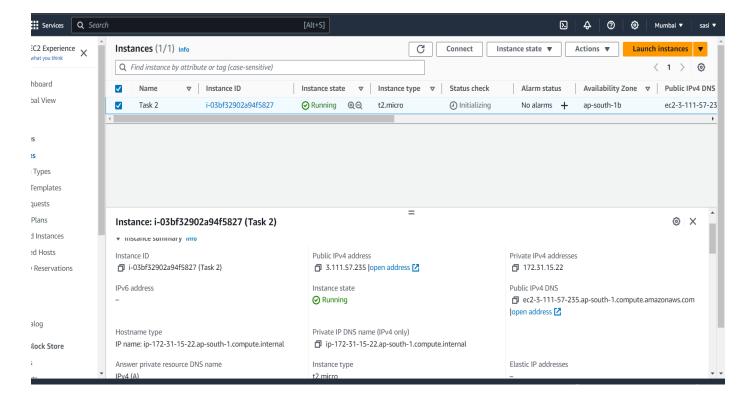
TASK 2 - EBS

Problem Statement: You work for XYZ Corporation. Your corporation wants to launch a new web-based application using AWS Virtual Machines. Configure the resources accordingly with appropriate storage for the tasks. Tasks To Be Performed:

- 1. Launch a Linux EC2 instance.
- 2. Create an EBS volume with 20 GB of storage and attach it to the created EC2 instance.
- 3. Resize the attached volume and make sure it reflects in the connected instance.

ANSWER:

1)

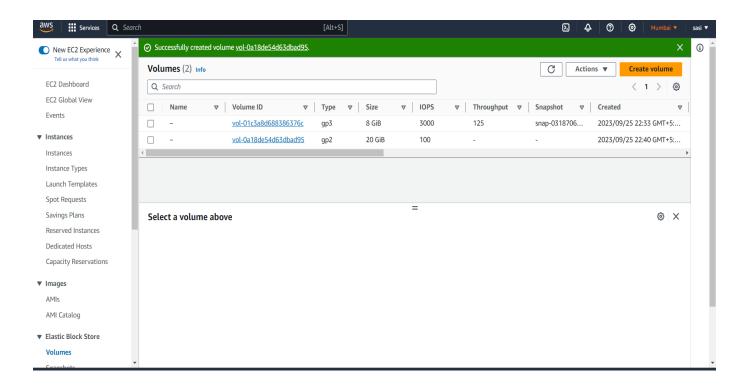


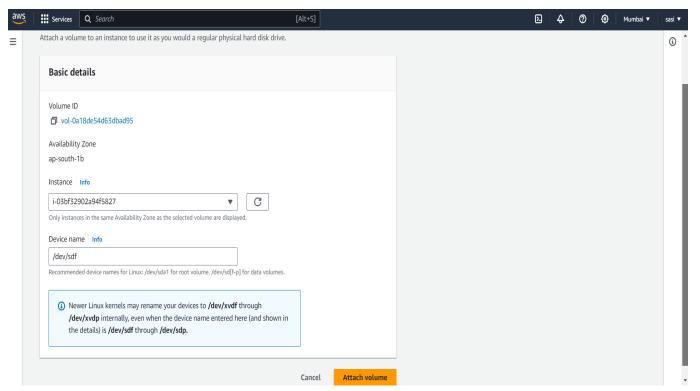
2)

Elastic block store volumes then click create volume

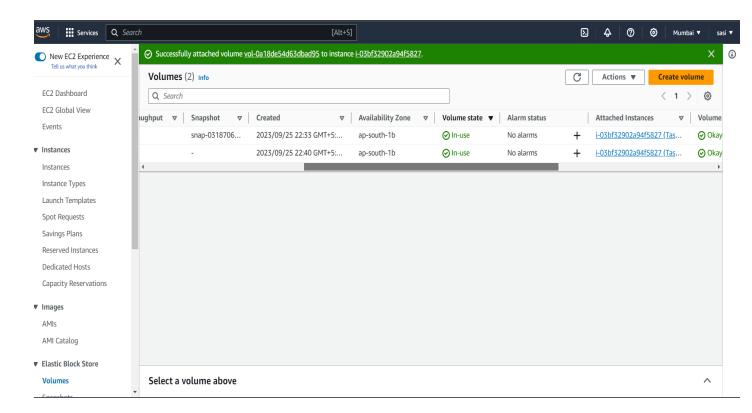
Select Availability Zone carefully

Select Availability zone where your instance is running





Click on attach the volume



Right click select instance it will comes on in-use status

Then connect instance to linux server

```
aws
                                                                                  [Alt+S]
          Services
                      Q Search
        #_
####
                       Amazon Linux 2023
        #####\
          \###|
                       https://aws.amazon.com/linux/amazon-linux-2023
Last login: Mon Sep 25 17:05:31 2023 from 13.233.177.4 [ec2-user@ip-172-31-15-22 ~]$ sudo -i
[root@ip-172-31-15-22 ~]# df -h
Filesystem
                       Used Avail Use% Mounted on
devtmpfs
                 4.0M
                             4.0M
                                      0% /dev
tmpfs
                 475M
                              475M
                                      0% /dev/shm
tmpfs
                 190M
                       2.9M
                              188M
                                      2% /run
/dev/xvda1
                 8.0G
                        1.5G
                              6.5G
                                     19% /
mpfs
                 475M
                              475M
                                      0% /tmp
/dev/xvda128
                        1.3M
                              8.7M
                                     13% /boot/efi
                  10M
                                      0% /run/user/1000
                               95M
tmpfs
                  95M
[root@ip-172-31-15-22 ~]# [
```

```
Services Q Search
                                                                                                                                                        sasi ▼
        ####
                      Amazon Linux 2023
       #####\
         \###1
                      https://aws.amazon.com/linux/amazon-linux-2023
root@ip-172-31-15-22 ~]# df -h
                 Size Used Avail Use% Mounted on
 ilesystem
                 4.0M 0 4.0M 0% /dev
475M 0 475M 0% /dev/shm
levtmpfs
tmpfs
                 190M 2.9M 188M 2% /run
 mpfs
                 8.0G 1.5G 6.5G 19% /
475M 0 475M 0% /tmp
dev/xvda1
mpfs
dev/xvda128
                 10M 1.3M 8.7M 13% /boot/efi
tmpfs 95M 0 95M 0% /run/use
[root@ip-172-31-15-22 ~] # lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
                                     0% /run/user/1000
         202:0 0 8G 0 disk

202:1 0 8G 0 part /

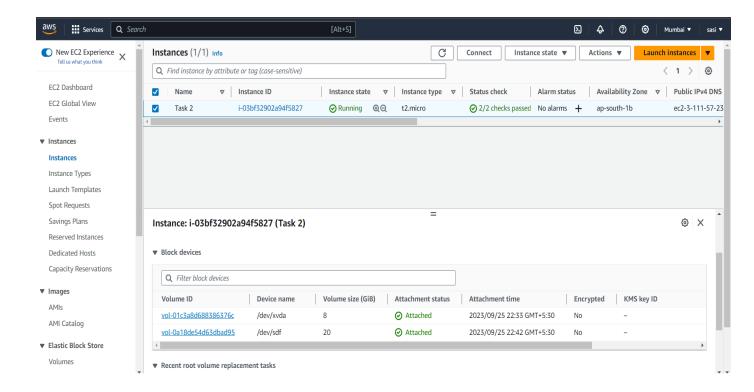
259:0 0 1M 0 part

259:1 0 10M 0 part /boot/efi

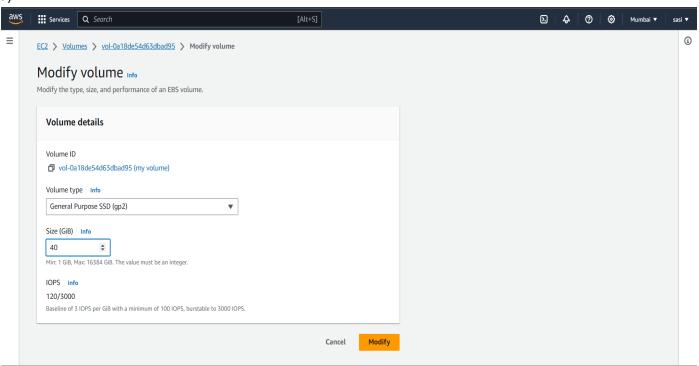
202:80 0 20G 0 disk
vda
-xvda1 202:1
-xvda127 259:0
 -xvda128 259:1
root@ip-172-31-15-22 ~]#
```

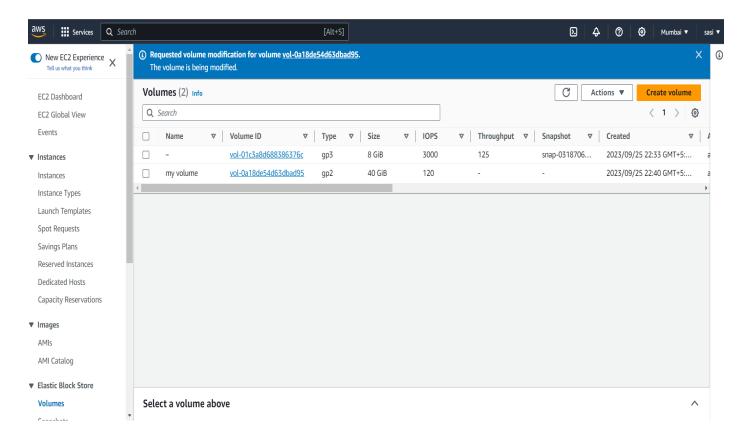
```
aws
         Services
                   Q Search
                                                                         [Alt+S]
[ec2-user@ip-172-31-15-22 ~]$ sudo -i
[root@ip-172-31-15-22 ~]# df -h
               Size Used Avail Use% Mounted on
Filesystem
devtmpfs
               4.0M
                        0 4.0M
                                  0% /dev
               475M
                        0 475M
tmpfs
                                  0% /dev/shm
               190M
                     2.9M 188M
                                  2% /run
tmpfs
                                 19% /
/dev/xvda1
               8.0G
                     1.5G 6.5G
                                  0% /tmp
tmpfs
               475M
                           475M
/dev/xvda128
                10M
                     1.3M
                           8.7M
                                 13% /boot/efi
                                  0% /run/user/1000
tmpfs
                95M
                       0
                           95M
[root@ip-172-31-15-22 ~]# lsblk
NAME
         MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
xvda
         202:0 0 8G 0 disk
—xvda1
         202:1
                  0 8G 0 part /
-xvda127 259:0
                0 1M 0 part
-xvda128 259:1
                0 10M 0 part /boot/efi
xvdf
         202:80 0 20G 0 disk
[root@ip-172-31-15-22 ~]# file -s /dev/xvdf
/dev/xvdf: data
[root@ip-172-31-15-22 ~] # mkfs -t xfs /dev/xvdf
neta-data=/dev/xvdf
                                isize=512
                                             agcount=4, agsize=1310720 blks
                                             attr=2, projid32bit=1
                                sectsz=512
                                crc=1
                                             finobt=1, sparse=1, rmapbt=0
                                reflink=1
                                             bigtime=1 inobtcount=1
data
                                bsize=4096
                                             blocks=5242880, imaxpct=25
                                sunit=0
                                             swidth=0 blks
                                             ascii-ci=0, ftype=1
        =version 2
                                bsize=4096
naming
        =internal log
                                bsize=4096
                                             blocks=16384, version=2
log
                                sectsz=512
                                             sunit=0 blks, lazy-count=1
realtime =none
                                extsz=4096
                                             blocks=0, rtextents=0
[root@ip-172-31-15-22 ~]# file -s /dev/xvdf
/dev/xvdf: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
[root@ip-172-31-15-22 ~]#
```

```
[root@ip-172-31-15-22 my-data] # mkdir /20GBDRIVE
[root@ip-172-31-15-22 my-data]# df -h
Filesystem
                 Size
                       Used Avail Use% Mounted on
devtmpfs
                 4.0M
                          0
                              4.0M
                                     0% /dev
tmpfs
                 475M
                          0
                              475M
                                     0% /dev/shm
                       2.9M
tmpfs
                 190M
                              188M
                                     2% /run
/dev/xvda1
                 8.0G
                       1.5G
                              6.5G
                                    19% /
tmpfs
                 475M
                          0
                              475M
                                     0% /tmp
/dev/xvda128
                       1.3M
                              8.7M
                                    13% /boot/efi
                  10M
tmpfs
                  95M
                          0
                               95M
                                     0% /run/user/1000
[root@ip-172-31-15-22 my-data]# mount /dev/xvdf1 /20GBDRIVE/
[root@ip-172-31-15-22 my-data]# df -h
Filesystem
                 Size
                       Used Avail Use% Mounted on
devtmpfs
                 4.0M
                          0
                              4.0M
                                     0% /dev
tmpfs
                 475M
                          0
                              475M
                                     0% /dev/shm
tmpfs
                 190M
                       2.9M
                              188M
                                     2% /run
/dev/xvda1
                 8.0G
                       1.5G
                              6.5G
                                    19% /
tmpfs
                 475M
                          0
                              475M
                                     0% /tmp
                                    13% /boot/efi
/dev/xvda128
                  10M
                       1.3M
                              8.7M
tmpfs
                  95M
                          0
                               95M
                                     0% /run/user/1000
/dev/xvdf1
                  20G
                       156K
                               19G
                                     1% /20GBDRIVE
[root@ip-172-31-15-22 my-data]#
```



3)





```
🎮 Gmail 🔼 YouTube 🐹 Maps
  aws
         Services
                    Q Search
                                                                          [Alt+S]
        ####
                     Amazon Linux 2023
        #####\
         \###|
                     https://aws.amazon.com/linux/amazon-linux-2023
           \#/
           V~' '->
        /m/ '
Last login: Mon Sep 25 17:13:35 2023 from 13.233.177.5
[ec2-user@ip-172-31-15-22 ~]$ sudo -i
[root@ip-172-31-15-22 ~]# df -h
                Size Used Avail Use% Mounted on
Filesystem
devtmpfs
                4.0M
                         0 4.0M
                                   0% /dev
tmpfs
                475M
                         0
                           475M
                                   0% /dev/shm
                            188M
tmpfs
                190M
                     2.9M
                                   2% /run
/dev/xvda1
                8.0G 1.5G
                           6.5G
                                  19% /
tmpfs
                475M
                            475M
                                   0% /tmp
                         0
                                  13% /boot/efi
/dev/xvda128
                 10M 1.3M
                            8.7M
tmpfs
                 95M
                         0
                             95M
                                   0% /run/user/1000
/dev/xvdf1
                 20G 156K
                             19G
                                   1% /20GBDRIVE
[root@ip-172-31-15-22 ~]#
```