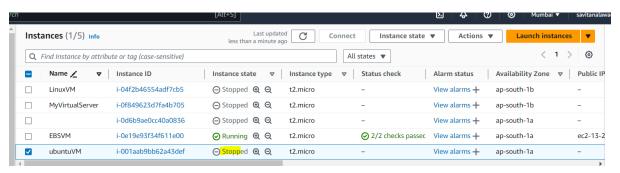
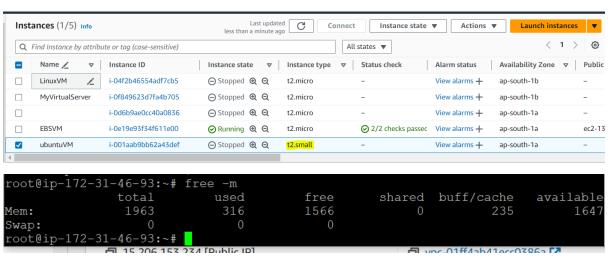
# 24th August Practical – Savita Nalawade

## 1. Vertical scaling

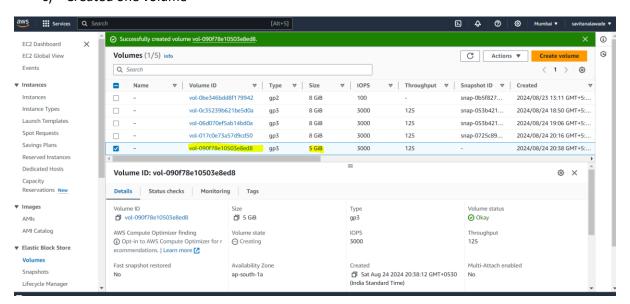
a) To apply vertical scaling we need to first stop instance



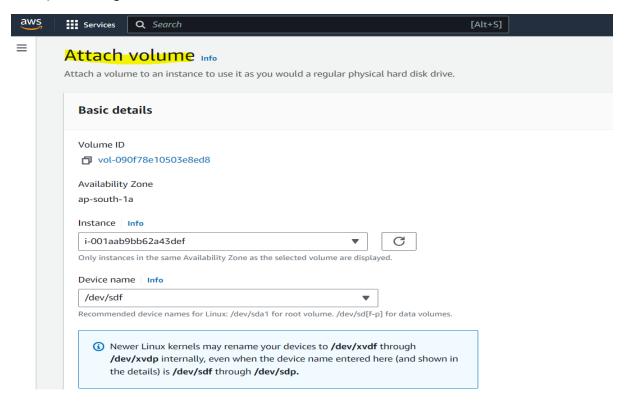
# b) Change it to t2.small



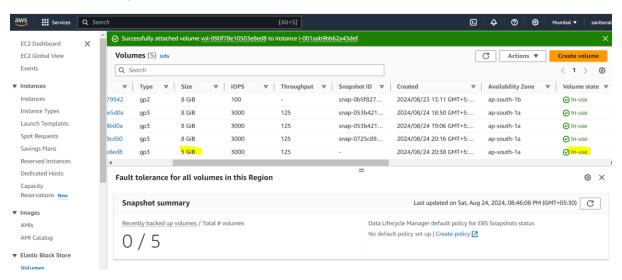
#### c) Created one volume



### d) Attaching EBS volume to instance



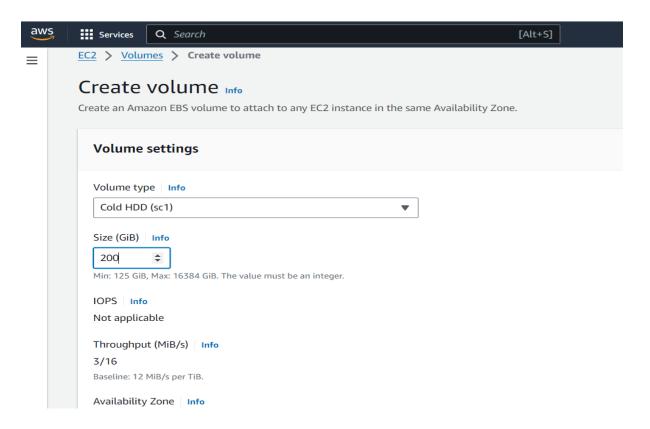
e) Successfully attached volume to instance

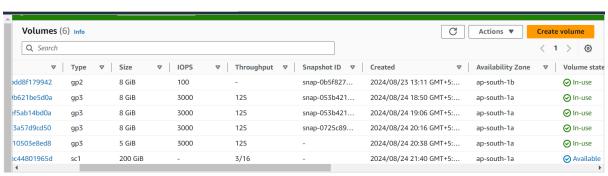


```
root@ip-172-31-46-93:~# lsblk
         MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
NAME
                   0 25.2M 1 loop /snap/amazon-ssm-agent/7993
loop0
           7:0
                            1 loop /snap/core18/2829
                   0 55.7M
loop1
            7:2
                   0 38.8M
                            1 loop /snap/snapd/21759
loop2
          202:0
                            0 disk
xvda
                            0 part /
 —xvda1
         202:1
 -xvda14 202:14
-xvda15 202:15
                            0 part
                        4M
                   0 106M
                            0 part /boot/efi
_xvda16 259:0
                   0 913M
                       5G 0 disk
xvdf
         202:80
root@ip-172-31-46-93:~# file -s /dev/xvdf
/dev/xvdf: data
root@ip-172-31-46-93:~# mkfs -t ext4 /dev/xvdf
mke2fs 1.47.0 (5-Feb-2023)
Creating filesystem with 1310720 4k blocks and 327680 inodes Filesystem UUID: 3f819d02-228e-4bbe-81b5-0f18c1ac7a85
Superblock backups stored on blocks:
         32768, 98304, 163840, 229376, 294912, 819200, 884736
Allocating group tables: done
Writing inode tables: done
Creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done
root@ip-172-31-46-93:~# mount /dev/xvdf /home/cpp
root@ip-172-31-46-93:~# lsblk
          MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
NAME
```

```
7:0
               0 25.2M 1 loop /snap/amazon-ssm-agent/7993
loop0
           7:1
                  0 55.7M
                           1 loop /snap/core18/2829
loop1
loop2
           7:2
                  0 38.8M
                           1 loop /snap/snapd/21759
         202:0
                       8G
                           0 disk
xvda
         202:1
 -xvda1
                       7G
                           0 part /
 -xvda14 202:14
                       4M
                           0 part
 -xvda15 202:15
                     106M
                           0 part /boot/efi
 -xvda16 259:0
                    913M
                          0 part /boot
xvdf
         202:80
                       5G
                           0 disk /home/cpp
coot@ip-172-31-46-93:~#
```

f) Creating one more HDD EBS Volume and attaching to instance





g) Successfully added to the instance

```
root@ip-172-31-46-93:~# lsblk
                     SIZE RO TYPE MOUNTPOINTS
NAME
         MAJ:MIN RM
loop0
                  0 25.2M
                            1 loop /snap/amazon-ssm-agent/7993
           7:0
           7:1
                  0 55.7M
loop1
                            1 loop /snap/core18/2829
loop2
           7:2
                  0 38.8M
                            1 loop /snap/snapd/21759
xvda
         202:0
                        8G
                            0 disk
         202:1
                        7G
 -xvda1
                            0 part
  -xvda14 202:14
                        4M
                            0 part
 -xvda15 202:15
                      106M
                            0 part /boot/efi
 -xvda16 259:0
                      913M
                            0 part /boot
xvdf
         202:80
                        5G
                            0 disk /home/cpp
         202:96
                      200G
                            0 disk
xvdq
root@ip-172-31-46-93:~#
```

h) Formating the newly added HDD

### i) Create directory and mount it

```
root@ip-172-31-46-93:~# mkdir /home/python-app root@ip-172-31-46-93:~# mount /dev/xvdg /home/python-app
root@ip-172-31-46-93:~# lsblk
NAME
          MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
loop0
            7:0
                    0 25.2M
                              1 loop /snap/amazon-ssm-agent/7993
                    0 55.7M
            7:1
loop1
                              1 loop /snap/core18/2829
            7:2
                    0 38.8M
                              1 loop /snap/snapd/21759
loop2
          202:0
                          8G
                              0 disk
xvda
 -xvda1
          202:1
                          7G
                              0 part /
  -xvda14 202:14
                              0 part
                          4M
 -xvda15 202:15
                        106M
                              0 part /boot/efi
 -xvda16 259:0
                        913M
                              0 part /boot
                          5G
                              0 disk /home/cpp
xvdf
          202:80
                              0 disk /home/python-app
                        200G
          202:96
xvdg
root@ip-172-31-46-93:~#
```