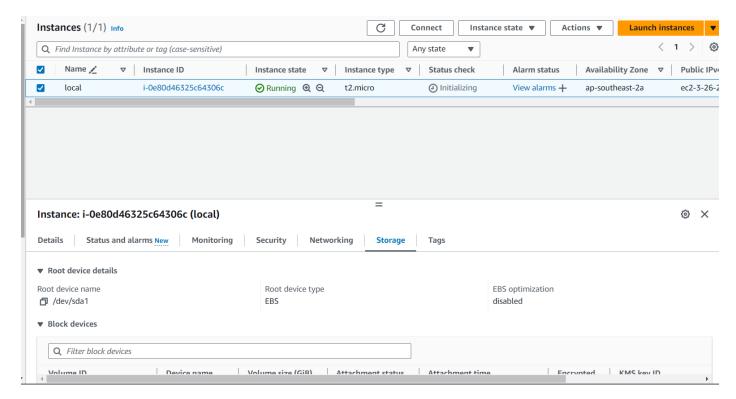
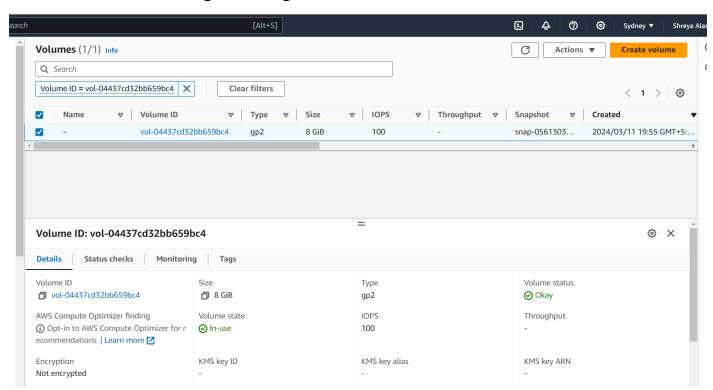
## Attaching additional drive

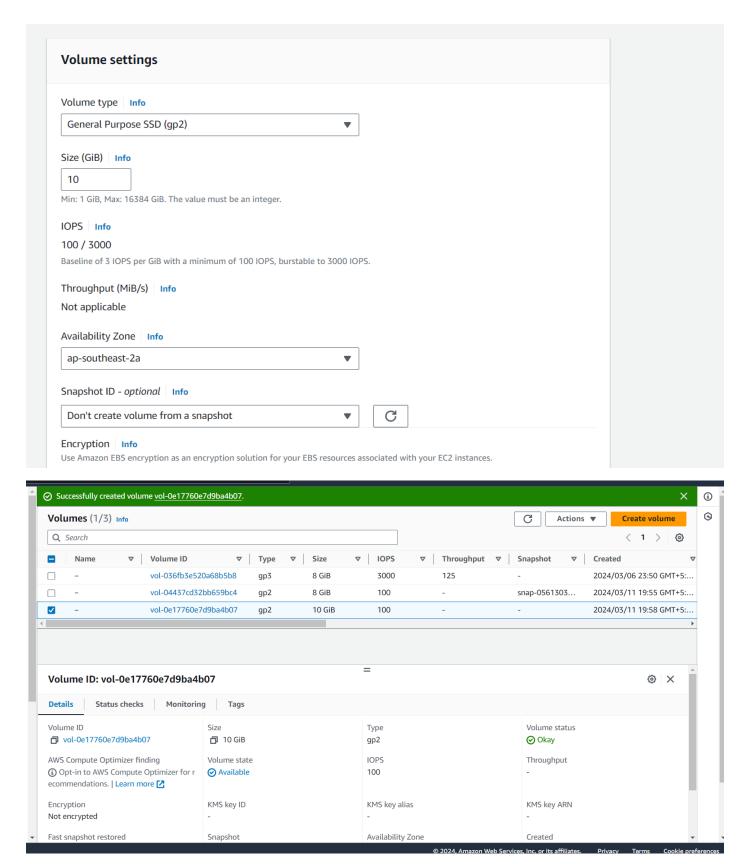
1: Create an instance in ubuntu



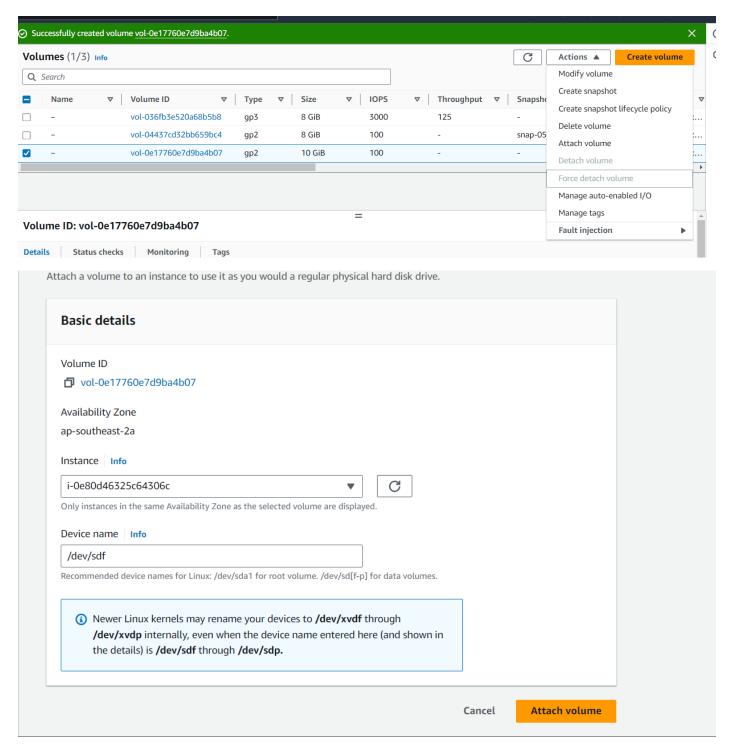
2: Select the instance and go to storage block and create new volume



3: Size will be 10 gb and then scroll down and click on create volume



4: Select the volume you want to attach > Actions > Attach Volume



5: Connect to first instance using SSH

```
ubuntu@ip-172-31-39-214: ~
shrey@Shreya MINGW64 ~
$ ssh -i ec2ssh.pem ubuntu@ec2-3-26-216-159.ap-southeast-2.compute.amazonaws.com
The authenticity of host 'ec2-3-26-216-159.ap-southeast-2.compute.amazonaws.com (64:ff9b::31a:d89f)' can't be established.
ED25519 key fingerprint is SHA256:tCzu18VNoPAkY5x7DeYXFNKo16pqwFypq7fkVfnSdx4.
 This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-26-216-159.ap-southeast-2.compute.amazonaws.com' (ED25519) to the list of known hosts.
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1018-aws x86_64)
    Documentation: https://help.ubuntu.com
Management: https://landscape.canonical.com
Support: https://ubuntu.com/pro
   Support:
   System information as of Mon Mar 11 14:32:26 UTC 2024

      System load:
      0.0
      Processes:
      97

      Usage of /:
      20.3% of 7.57GB
      Users logged in:
      0

      Memory usage:
      20%
      IPv4 address for eth0:
      172.31.39.214

      Swap usage:
      0%

Expanded Security Maintenance for Applications is not enabled.
O updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
 See https://ubuntu.com/esm or run: sudo pro status
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.
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.
```

• To mount the additional drive and to add file

1: List the available disks to find the new volume using command "lsblk"

```
"man sudo_root" for details.
ubuntu@ip-172-31-39-214:~$ lsblk
            MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
7:0 0 24.9M 1 loop /snap/amazor
7:1 0 55.7M 1 loop /snap/corel
NAME
                                      1 loop /snap/amazon-ssm-agent/7628
1 loop /snap/core18/2812
1 loop /snap/core20/2105
loop0
               7:1
7:2
7:3
7:4
loop1
                         0 63.9M
loop2
                                      1 loop /snap/lxd/26881
1 loop /snap/snapd/20671
                         0 87M
loop3
                         0 40.4M
loop4
                         0 8G
0 7.9G
             202:0
                                      0 disk
xvda
 -xvda1
            202:1
                                      0 part /
  -xvda14 202:14
                                4M
                                      0 part
                         0
  -xvda15 202:15
                          0 106M
                                      0 part /boot/efi
                          0
                               10G
                                      0 disk
xvdf
             202:80
```

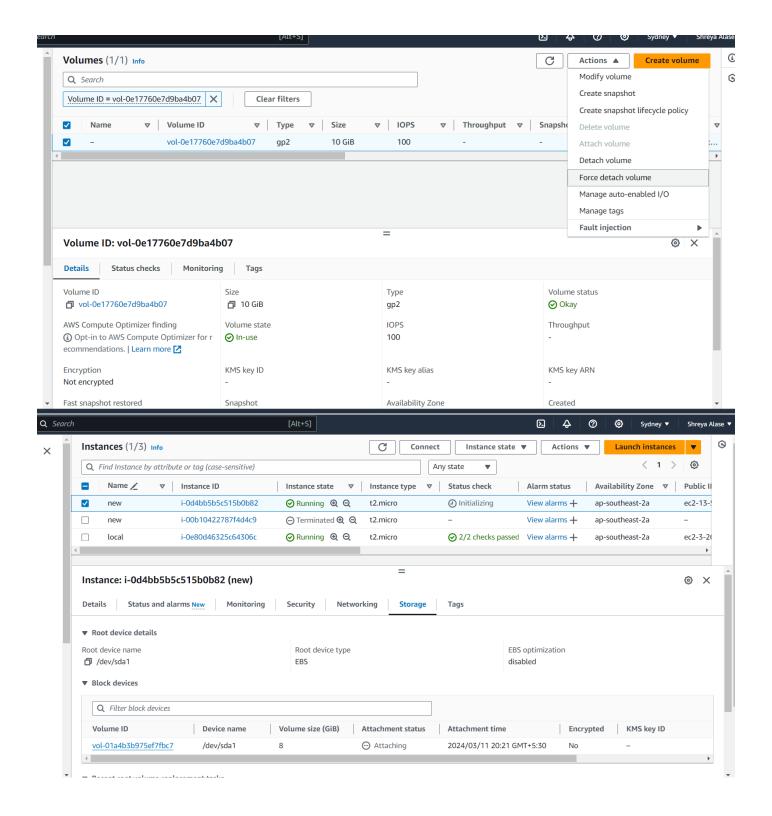
2: Format the new volume > sudo mkfs -t ext4 /dev/xvdf

- 3: Create a directory to mount the new volume > sudo mkdir /mnt/mydrive
- 4: Mount the created volume to directory > sudo mount /dev/xvdf /mnt/mydrive

- 5: Add a file to mounted directory > echo "This is a sample file" | sudo tee /mnt/mydrive/sample.txt
- 6: Unmount the drive when file is added > sudo umount /mnt/mydrive

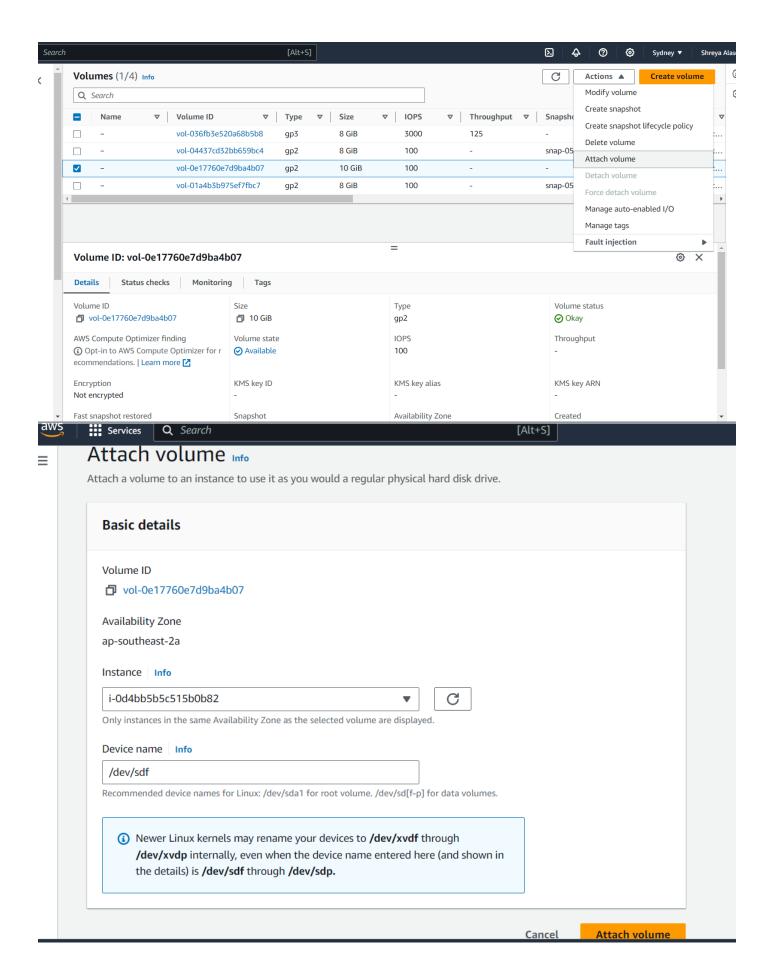
```
ubuntu@ip-172-31-39-214:~\$ sudo mkdir /mnt/mydrive
ubuntu@ip-172-31-39-214:~\$ sudo mount /dev/xvdf /mnt/mydrive
ubuntu@ip-172-31-39-214:~\$ touch S.txt
ubuntu@ip-172-31-39-214:~\$ ls
S.txt
ubuntu@ip-172-31-39-214:~\$ vi S.txt
ubuntu@ip-172-31-39-214:~\$ cat S.txt
Creating an extra volume of 10 gb and attaching it to instance
ubuntu@ip-172-31-39-214:~\$ echo "This is a sample file" | sudo tee /mnt/mydrive/S.txt
This is a sample file
ubuntu@ip-172-31-39-214:~\$ sudo umount /mnt/mydrive
ubuntu@ip-172-31-39-214:~\$ sudo umount /mnt/mydrive
ubuntu@ip-172-31-39-214:~\$
```

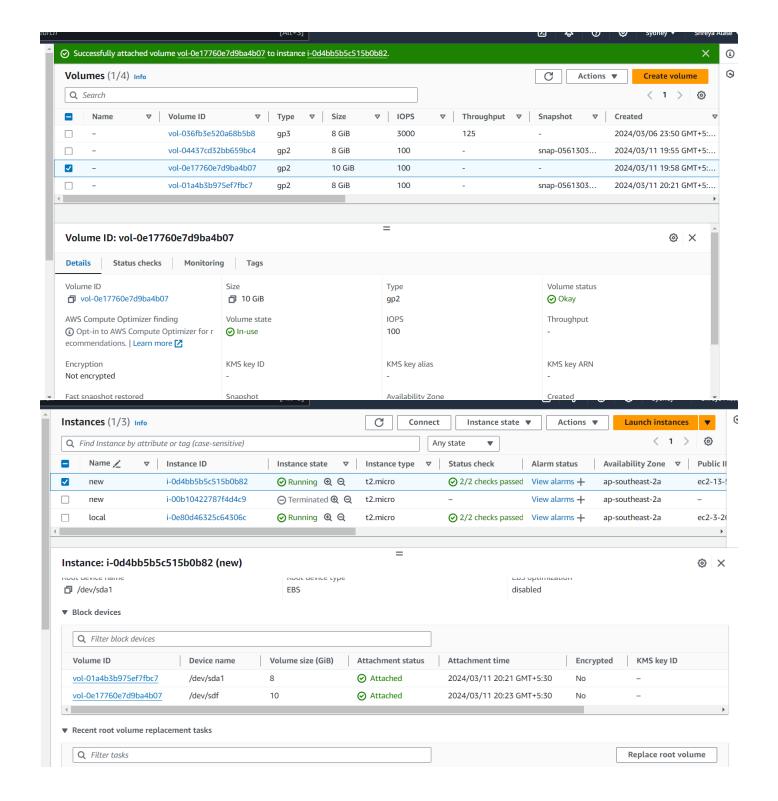
- 7: Detach the volume from first instance
  - i. Go to EC2 Dashboard
  - ii. Select first instance
  - iii. Storage block > Click on volume > Actions > Detach volume



## 8: Attach volume to second instance

- i. Go to EC2 Dashboard
- ii. Select second instance
- iii. In storage block, click on create volume and select the detached volume





- Connect to second instance using SSH and mount then view file
- 1: Connect to instance using SSH
- 2: List the available disks to find a new volume "lsblk"
- 3: Create directory to mount the new volume sudo mkdir /mnt/mydrive
- 4: Mount the volume to directory > "sudo mount /dev/xvdf /mnt/mydrive"
- 5: To view the file, go to mounted directory > "cd /mnt/mydrive"

6: View the file content > "cat sample.txt"	