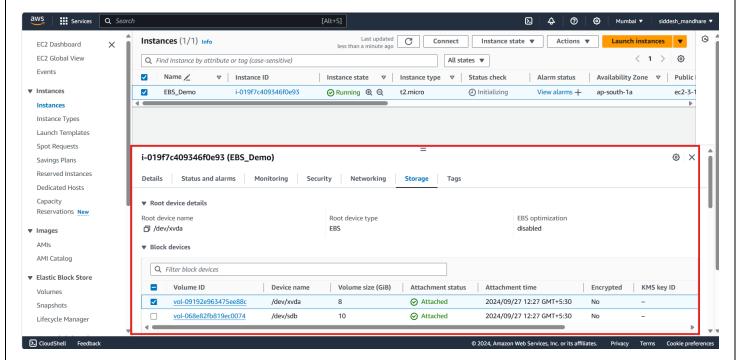
AWS-Elastic Block Store (EBS)

Siddesh Mandhare

Practical 1 - Create one instance and attached root & EBS volume

Step 1 - Created one instance with Root volume and EBS volume

- Name- EFS_Demo
- OS- Linux
- AMI- Ameon Linus AMI (Free tier)
- Instance type- T2.micro
- Keypair

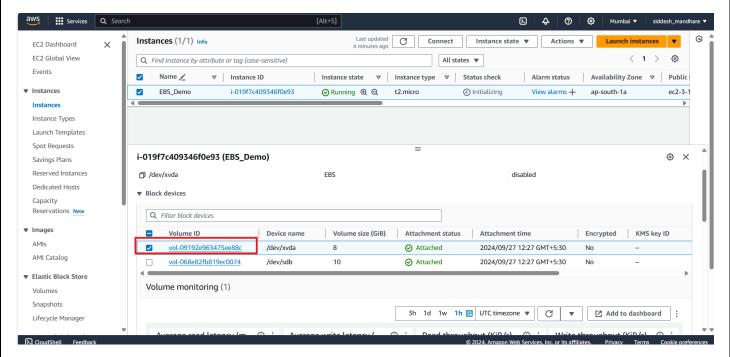


```
login as: ec2-user
  Authenticating with public key "imported-openssh-key"
                     Amazon Linux 2023
        ####
        #####\
                     https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-172-31-33-84 ~]$ sudo su -
[root@ip-172-31-33-84 ~]# df -h
Filesystem
                Size
                      Used Avail Use% Mounted on
devtmpfs
                4.0M
                            4.0M
                                    0% /dev
                475M
                            475M
                                    0% /dev/shm
tmpfs
                      444K
                190M
                             190M
                                    1% /run
/dev/xvda1
                8.0G 1.6G
                                   20% /
                            6.4G
                            475M
                                    0% /tmp
mpis
                4/5M
                 10M
                      1.3M
                            8.7M
dev/xvda128
                                   13% /boot/efi
                 95M
                              95M
tmpfs
                                    0% /run/user/1000
 root@ip-172-31-33-84 ~]#
```

Practical 2: - Increase the size of root EBS Volume.

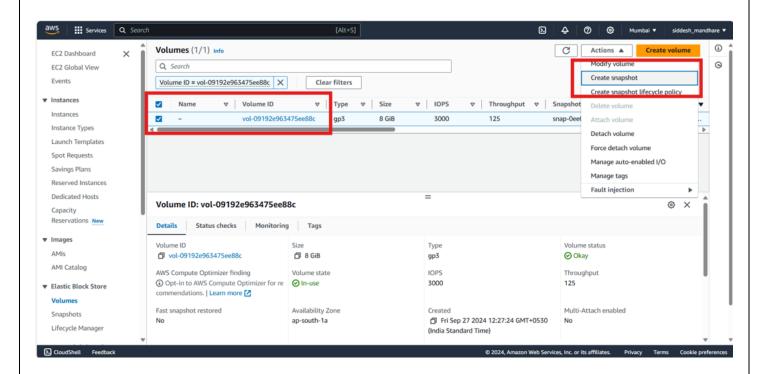
Step 1: - To increase the root EBS volume, a snapshot is required (note that this is chargeable, and the snapshot size equals the volume size).

A snapshot for the root EBS volume has been created

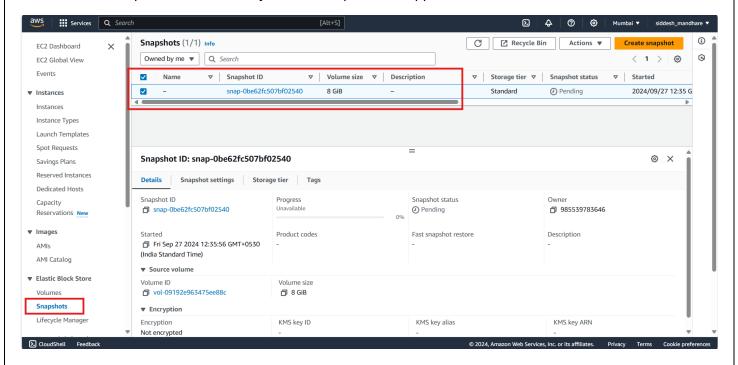


Step 2: - Create Snapshot

- Click on Root EBS volume
- Select volume and go to action>Create snapshot

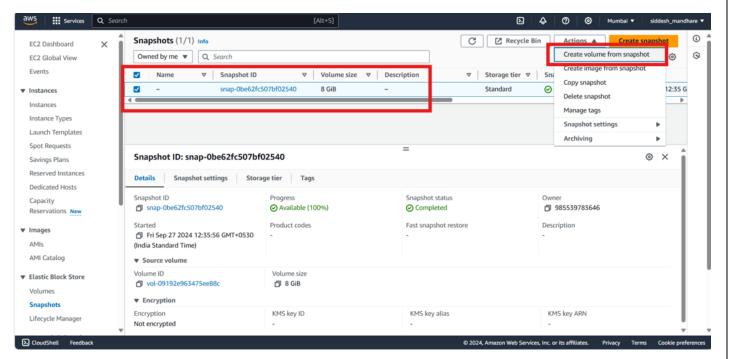


• Go to "snapshot" section newly created snapshot will appear.

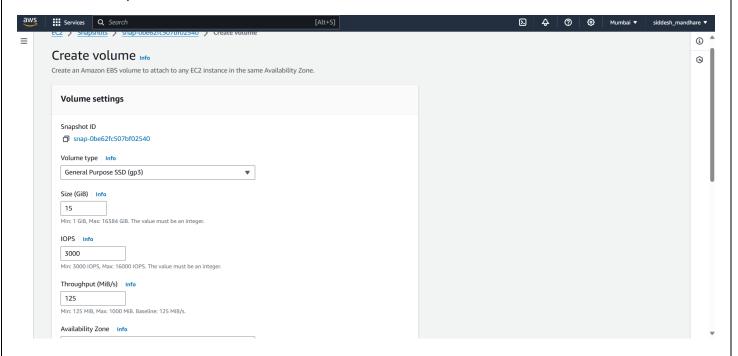


Step 3: - Create volume from Snapshot (make sure availability zone should be same as instance)

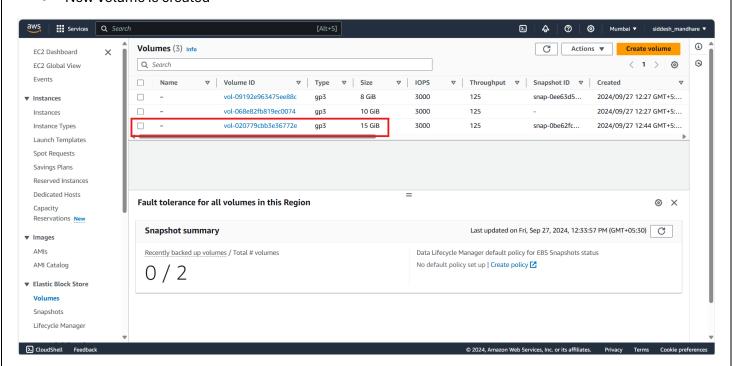
- Select snapshot which is we created
- Go to "action" an select "Create volume from snapshot"



· Select as per below

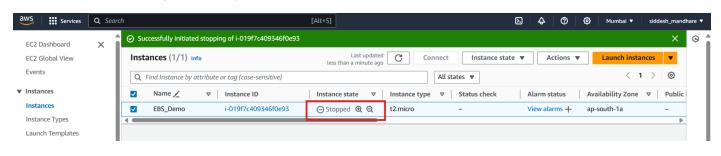


New Volume is created

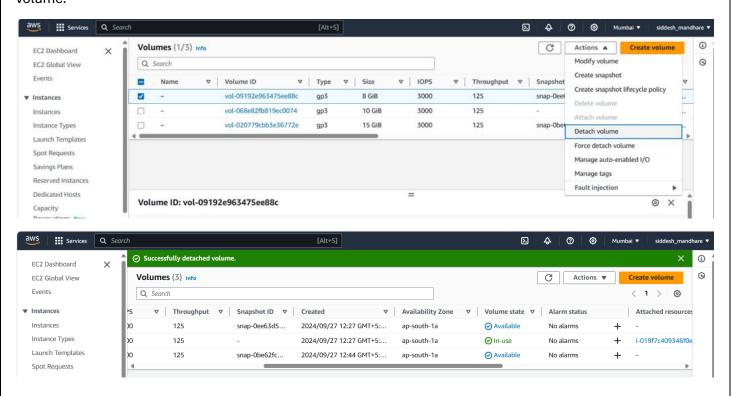


Note > Now I want to detached old root EBS volume (8GB) and then attached new (15GB) volume

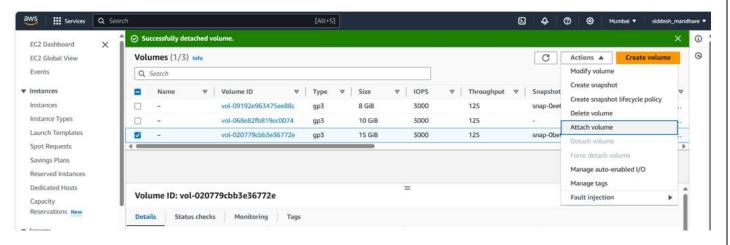
Step 4: - Stop Instance (EFS_Demo)

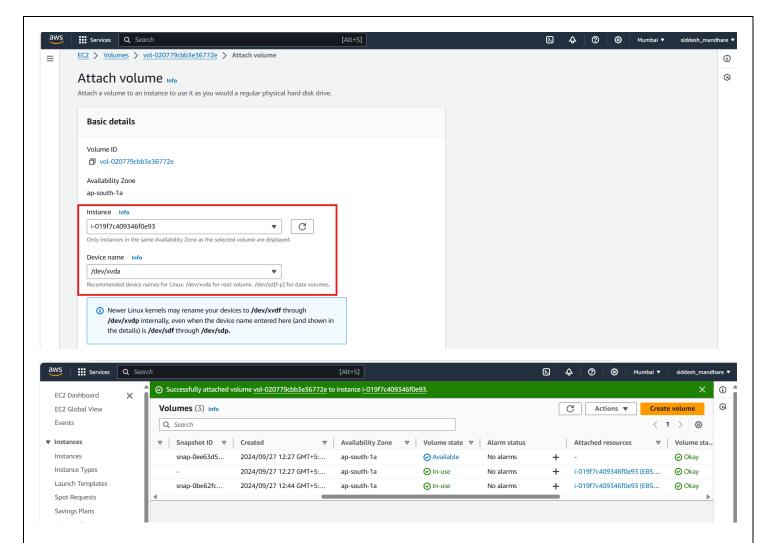


Step 5: - Go to the volume and click" action" > select old "root EBS volume" (8GM) and click on "detach volume."



Step 6: - Select new EBS volume (15GB) go to "action" > and click "Attach volume"





Step 7: - Launch putty

- Go to root (sudo su -)
- For details ("Df -h")
- Now we can see root EBS volume will be 15 GB.

```
[ec2-user@ip-172-31-33-84 ~]$ sudo su -
[root@ip-172-31-33-84 \sim] # df -h
Filesystem
             Size Used Avail Use% Mounted on
devtmpfs
                4.0M
                         0
                            4.0M
                                   0% /dev
tmpfs
                475M
                         0
                            475M
                                   0% /dev/shm
                190M 448K
                           190M
tmpfs
                                   1% /run
/dev/xvda1
                15G 1.6G
                                  11% /
                             14G
                            475M
tmpfs
                475M
                      0
                                  0% /tmp
/dev/xvda128
                 10M
                     1.3M
                            8.7M
                                  13% /boot/efi
                 95M
                             95M
tmpfs
                                   0% /run/user/1000
[root@ip-172-31-33-84 ~]#
```