EBS

Extend the size of root EBS

Task 1

Create One instance having attached root and ebs volume

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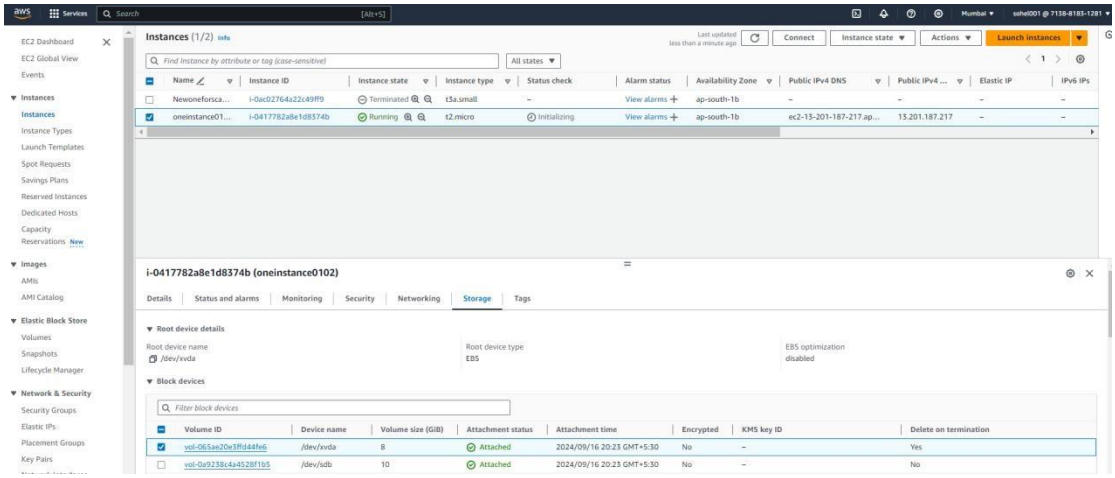
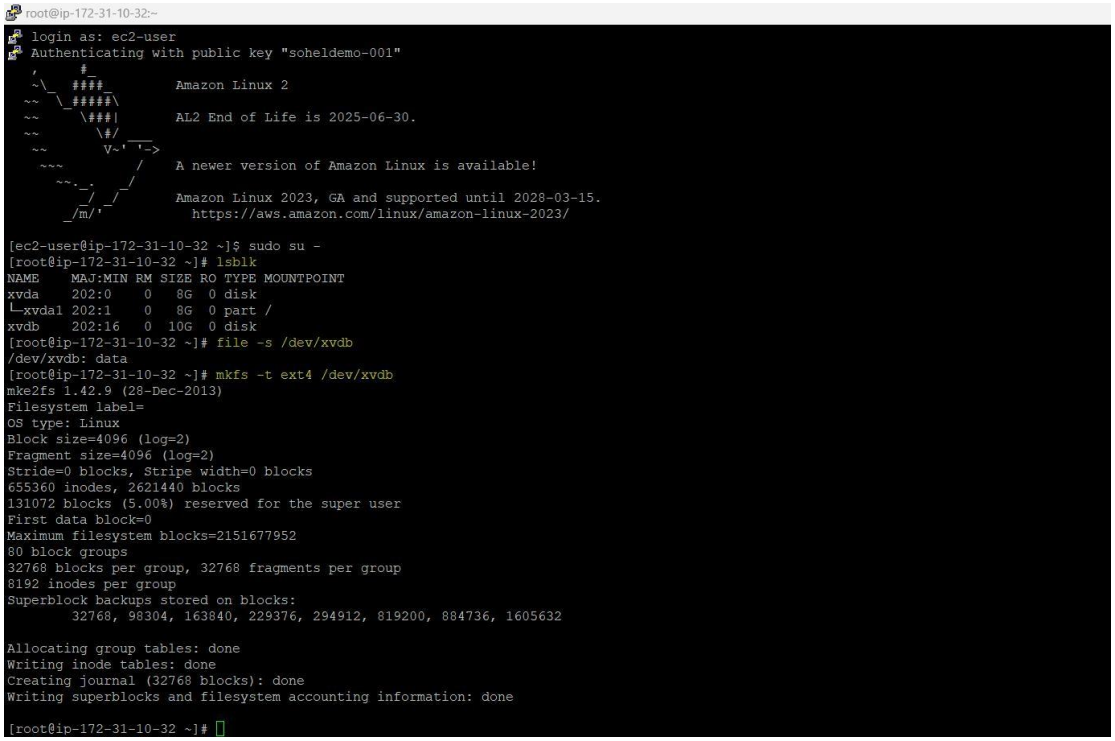
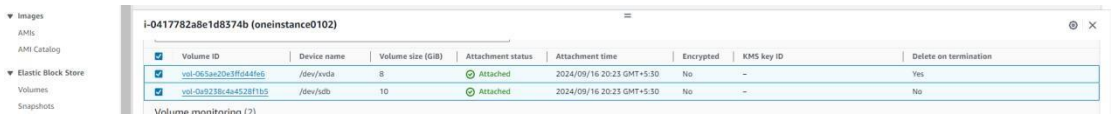


Attaching EBS to instance



We can see both volumes are attached.

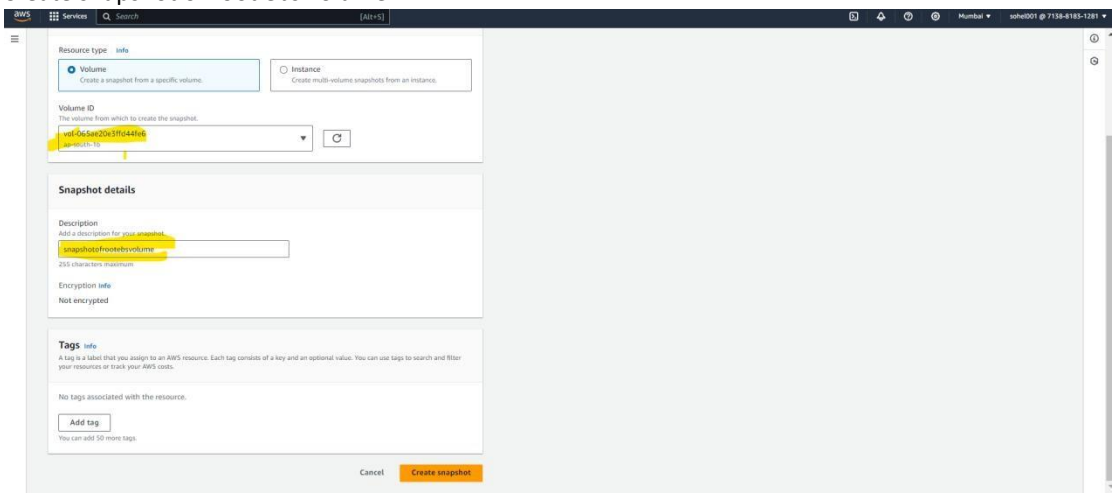


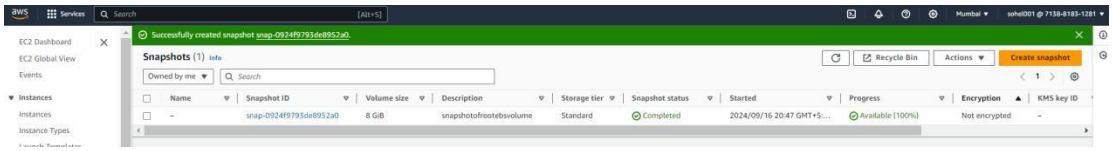
Increase the size of root EBS volume

1. If we need to increase the size of root ebs volume snapshot is required. (Snapshot is chargeable.

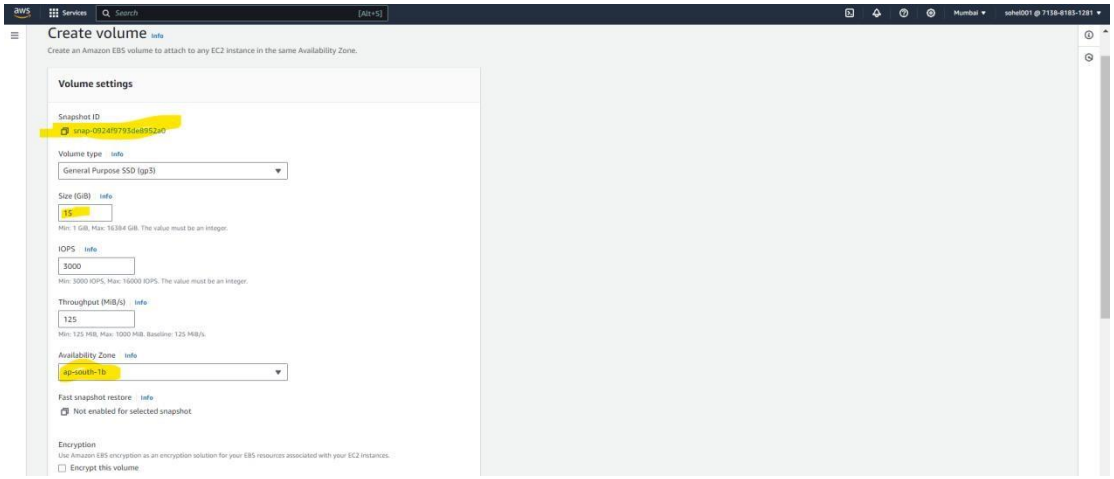
Size of snapshot = size of volume)

Create snapshot of root ebs volume

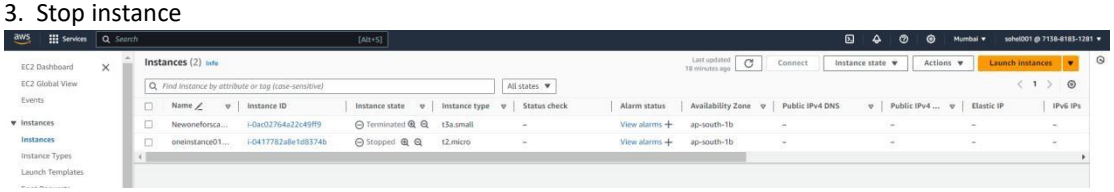




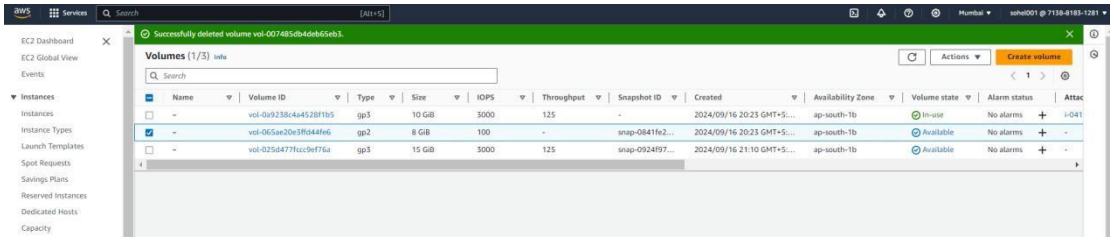
2. Create volume using snapshot **make Availability of zone and instance is same.**



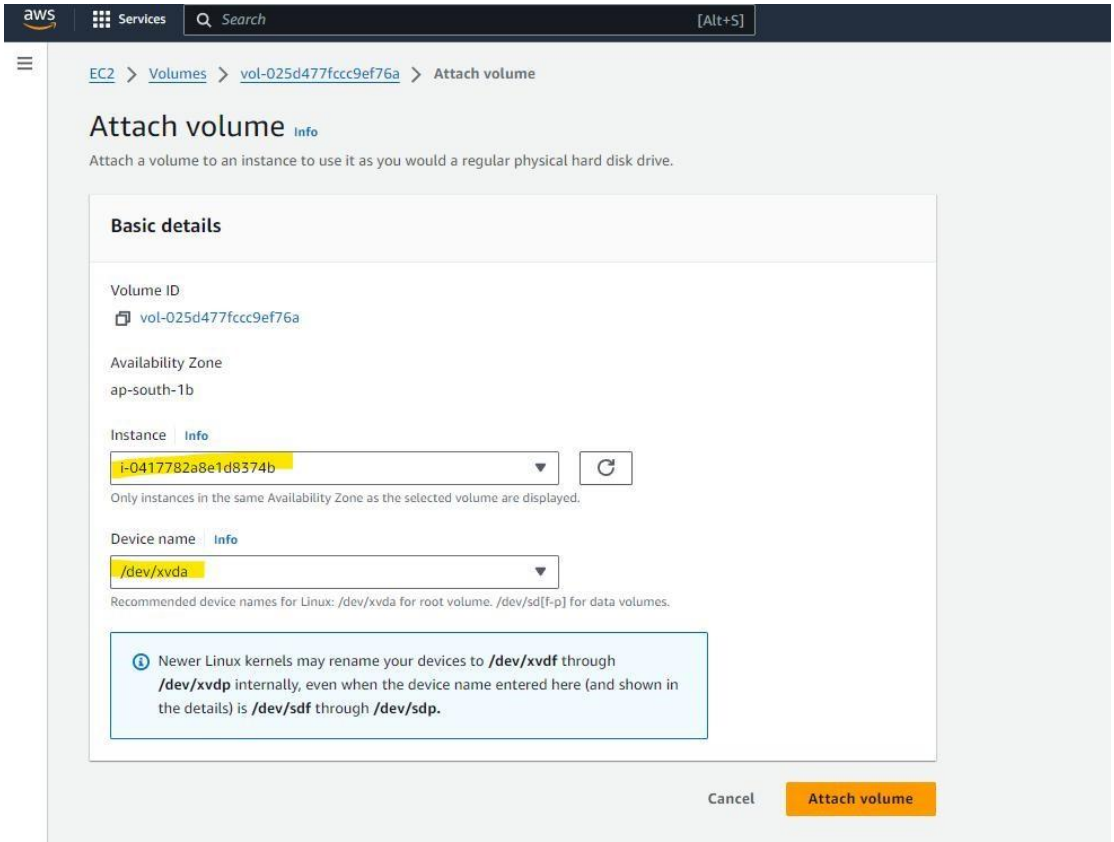
3. Stop instance

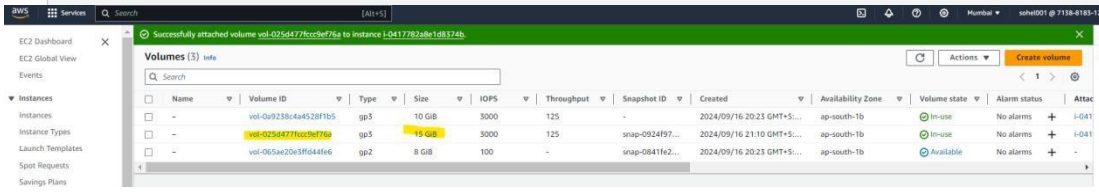


4. Detaching root ebs volume

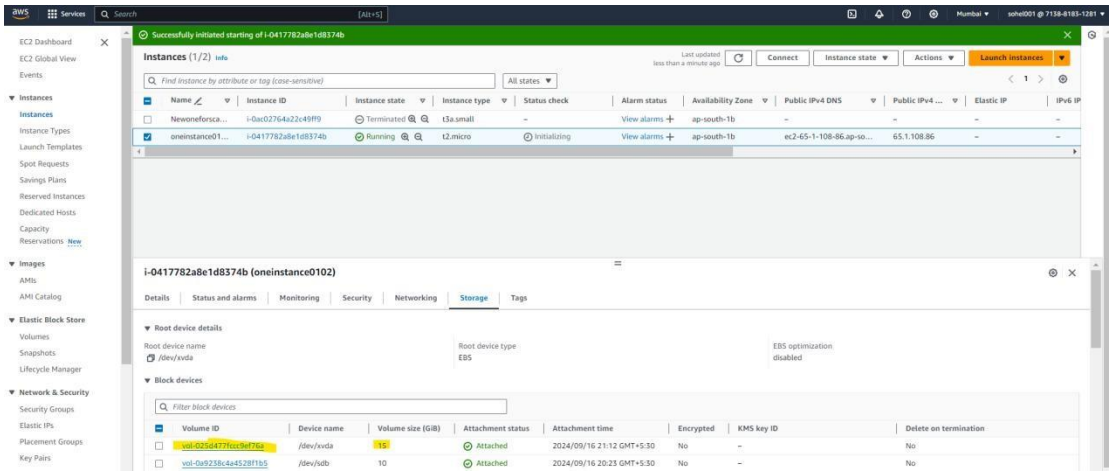


5. Attaching root ebs volume from Snapshot to the instance

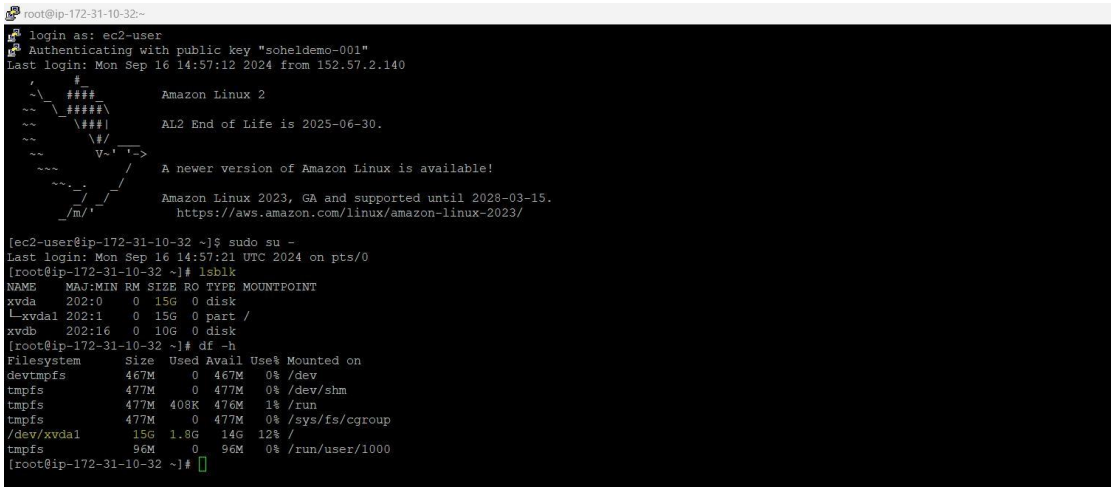




6. Start the instance we see the volume is extended

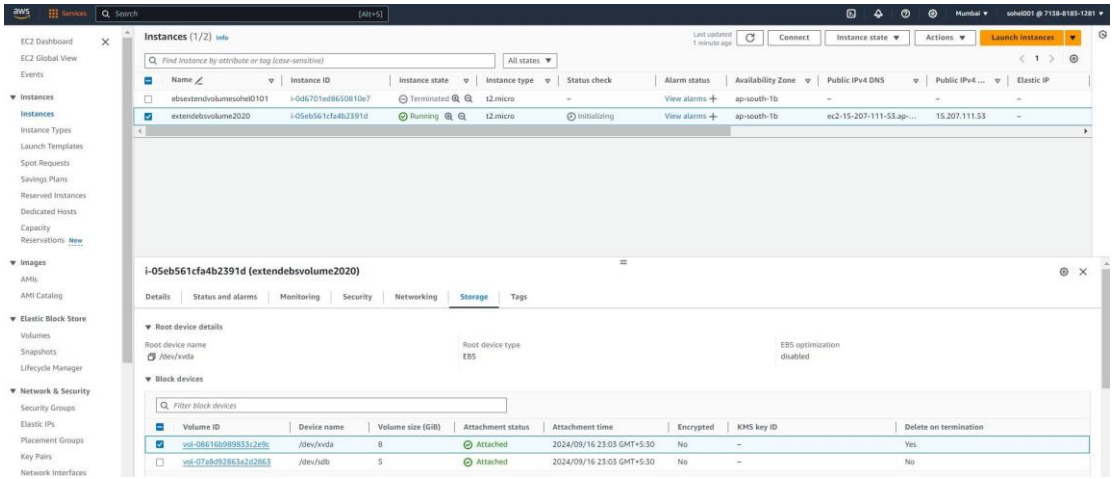


Successfully extended root ebs volume to 15 gb

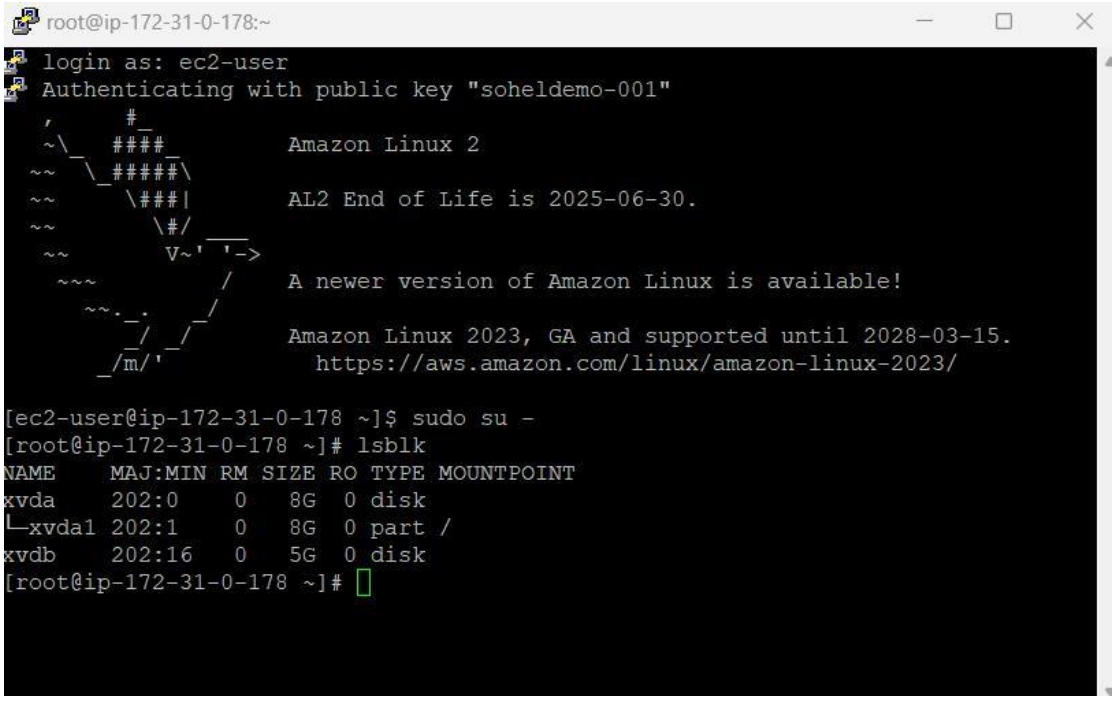


3. Increase the size of EBS Volume

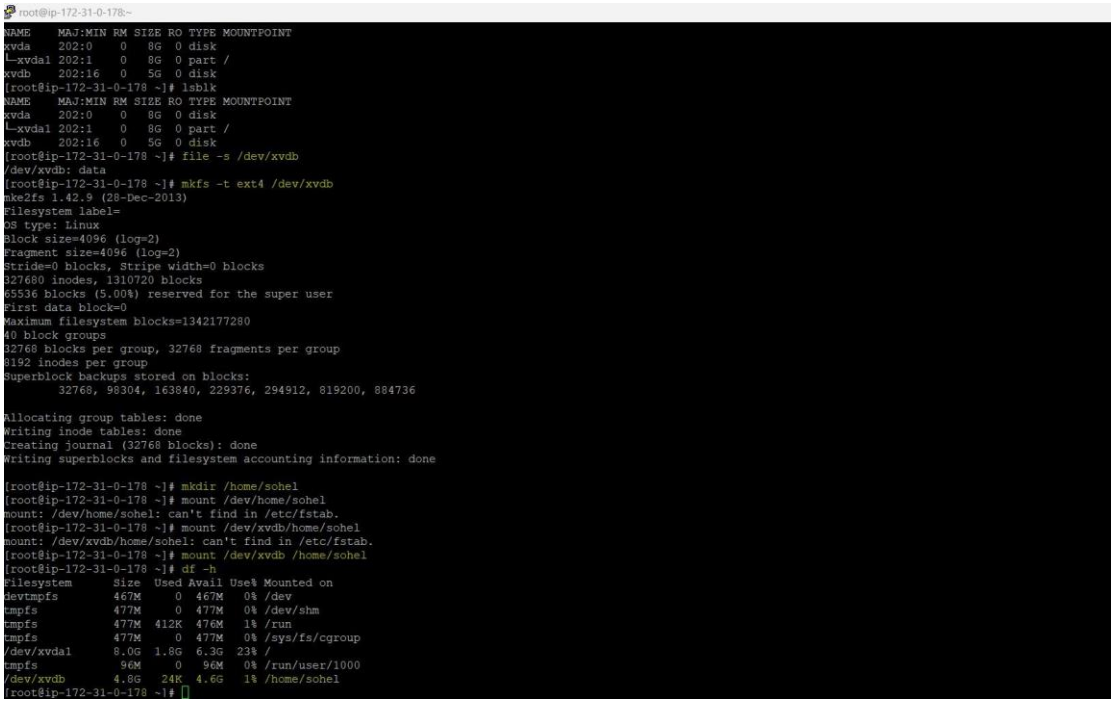
Create one instance having Root EBS volume and EBS volume of 8gb & 5 beach



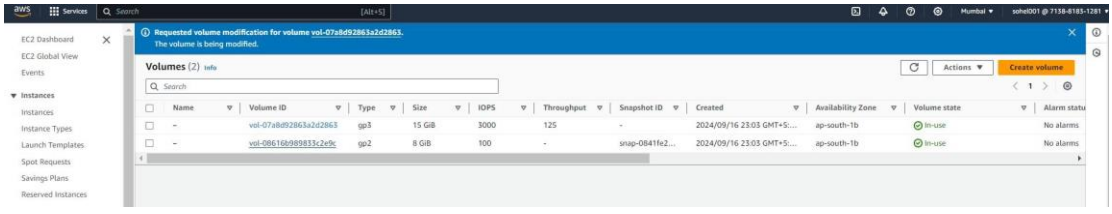
Need to increase size of EBS volume Before increasing the size:



Modify the size of as per we want:
Successfully extended the size of EBS Volume



Now use Resize2fs command to extend the volume




[root@ip-172-31-0-178 ~]# resize2fs dev/xvdb
resize2fs 1.42.9 (28-Dec-2013)
open: No such file or directory while opening dev/xvdb
[root@ip-172-31-0-178 ~]# resize2fs /dev/xvdb
resize2fs 1.42.9 (28-Dec-2013)
Filesystem at /dev/xvdb is mounted on /home/sohel; on-line resizing required
old_desc_blocks = 1, new_desc_blocks = 2
The filesystem on /dev/xvdb is now 3932160 blocks long.
[root@ip-172-31-0-178 ~]# lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
xvda 202:0 0 8G 0 disk
└─xvda1 202:1 0 8G 0 part /
xvdb 202:16 0 15G 0 disk /home/sohel
[root@ip-172-31-0-178 ~]# df -h
Filesystem Size Used Avail Use% Mounted on
devtmpfs 467M 0 467M 0% /dev
tmpfs 477M 0 477M 0% /dev/shm
tmpfs 477M 412K 476M 1% /run
tmpfs 477M 0 477M 0% /sys/fs/cgroup
/dev/xvda1 8.0G 1.8G 6.3G 23% /
tmpfs 96M 0 96M 0% /run/user/1000
/dev/xvdb 15G 24K 14G 1% /home/sohel
[root@ip-172-31-0-178 ~]#