26th August 2024
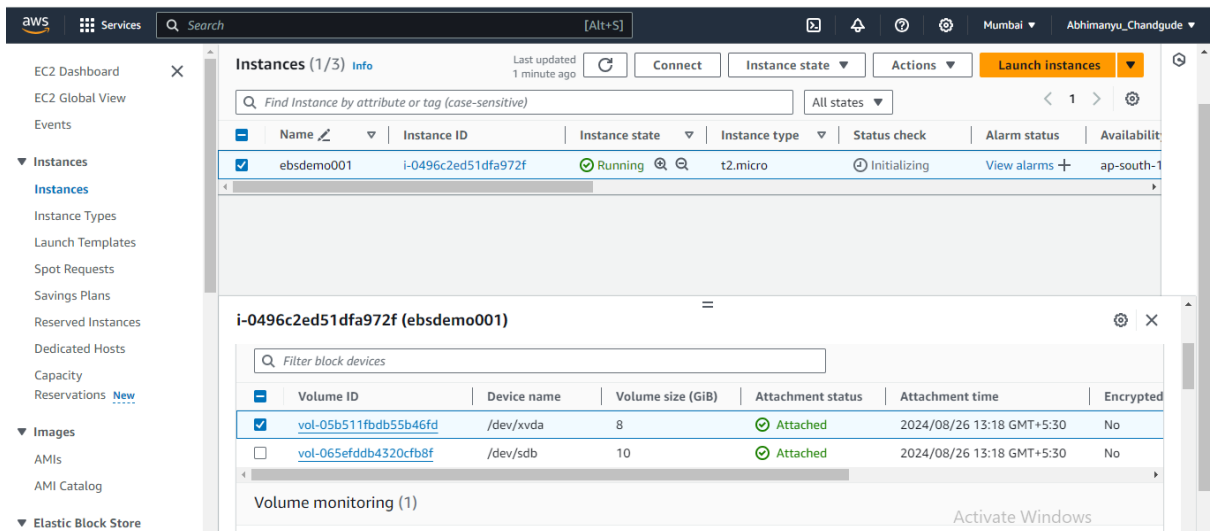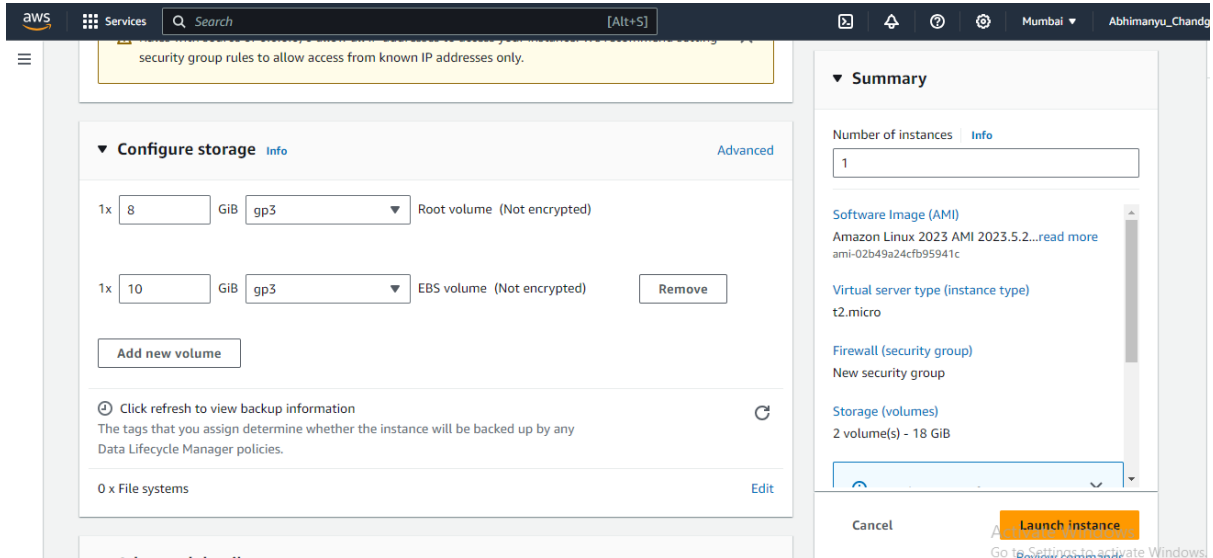
> **Increase size of Root EBS Volume from 8GB to 15 GB**

a. Create instance with two volumes

b. Check the condition of Hard-disk

c. Create and mount the directory

d. Take snapshot of Root EBS Volume

e. Create Volume from Snapshot

f. Detach previous Root EBS Volume (8 GB)

1. Stop the Root EBS Volume instance (8 GB)

2. Detach the Root EBS Instance

g. Attach new Root EBS Volume (15 GB)

h. Check new Root EBS Volume and check the file

> **Increase size of EBS Volume from 8GB to 15 GB**

a. Create instance with two volumes
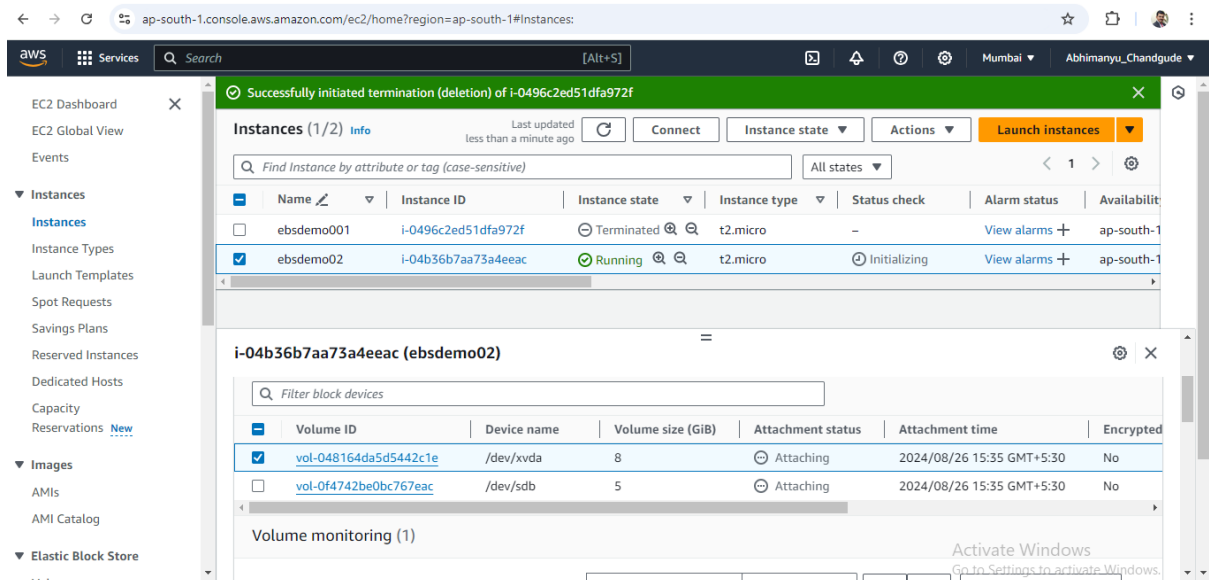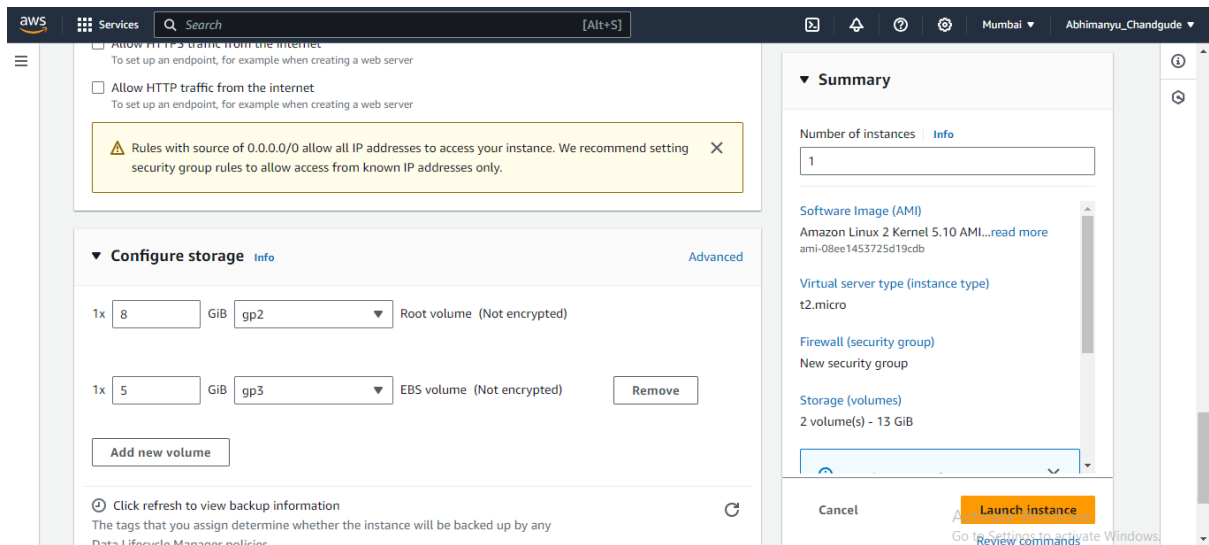
b. Create and mount the directory


```
[root@ip-172-31-47-48 ~]# mkdir /home/abhimanyu
[root@ip-172-31-47-48 ~]# mount /dev/xvdb /home/abhimanyu
[root@ip-172-31-47-48 ~]#
[root@ip-172-31-47-48 ~]#
[root@ip-172-31-47-48 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        467M     0  467M   0% /dev
tmpfs           477M     0  477M   0% /dev/shm
tmpfs           477M  408K  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       4.8G   24K  4.6G   1% /home/abhimanyu
[root@ip-172-31-47-48 ~]#
```

c. Check the EBS Volume with instance ID

d. Modify EBC Volume from 5 GB to 15 GB with the action of Modify Volume

e. Extend the file system after resizing an EBS Volume

```
                    477M      0   477M    0% /dev/shm
tmpfs               477M   408K   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           4.8G    24K   4.6G    1% /home/abhimanyu
[root@ip-172-31-47-48 ~]#
[root@ip-172-31-47-48 ~]#
[root@ip-172-31-47-48 ~]# resize2fs /dev/xvdb
resize2fs 1.42.9 (28-Dec-2013)
Filesystem at /dev/xvdb is mounted on /home/abhimanyu; on-line resizing required
old_desc_blocks = 1, new_desc_blocks = 2
The filesystem on /dev/xvdb is now 3932160 blocks long.

[root@ip-172-31-47-48 ~]# df -h
Filesystem          Size   Used  Avail  Use% Mounted on
devtmpfs            467M      0   467M    0% /dev
tmpfs               477M      0   477M    0% /dev/shm
tmpfs               477M   408K   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/abhimanyu
[root@ip-172-31-47-48 ~]#
```