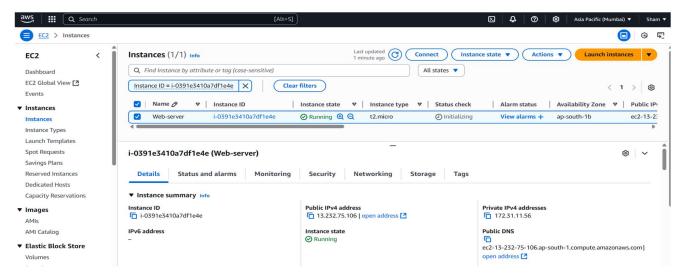
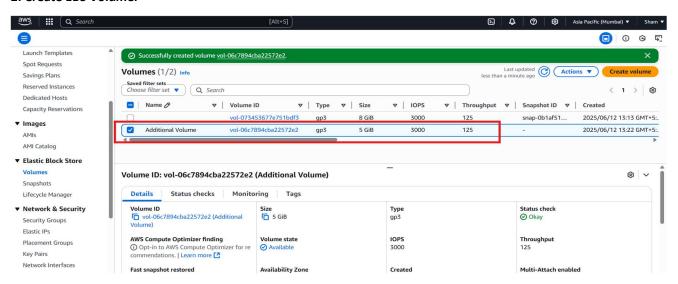
To create an EBS volume, attach it to an EC2 instance, and mount it permanently

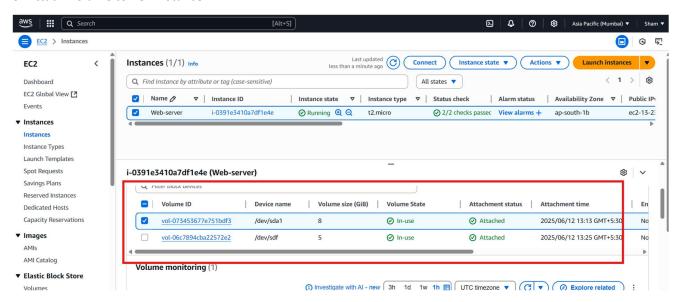
1: Create EC2 Instance.



2: Create EBS Volume.



3: Attach Volume to EC2 Instance.



4: SSH into EC2 and Mount the EBS.

```
root@ip-172-31-11-56:~# df
                        Used Avail Use% Mounted on
                 Size
Filesystem
                 6.8G
479M
                               5.0G
479M
                        1.8G
                                     26% /
/dev/root
                           0
                                      0% /dev/shm
tmpfs
                                     1% /run
0% /run/lock
11% /boot
                        876K
tmpfs
                 192M
                               191M
                  5.0M
                               5.0M
tmpfs
                           O
/dev/xvda16
                 881M
                         86M
                               734M
                        6.2M
12K
                                       6% /boot/efi
/dev/xvda15
                                99M
                 105M
tmpfs
                  96M
                                96M
                                       1% /run/user/1000
root@ip-172-31-11-56:~#
root@ip-172-31-11-56:~# lsblk
NAME
          MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
                    0 27.2M
                              1 loop /snap/amazon-ssm-agent/11320
loop0
            7:0
                    0 73.9M
loop1
            7:1
                              1 loop /snap/core22/1981
            7:2
1oop2
                    0 50.9M
                              1 loop /snap/snapd/24505
xvda
          202:0
                    0
                          8G
                              0 disk
          202:1
                    0
                              0 part /
  -xvda1
                          7G
                    0
                              0 part
  -xvda14 202:14
                          4M
  -xvda15 202:15
                    0
                        106M
                              0 part /boot/efi
  vvda16
                        913M
xvdf
                          5G 0 disk
          202:80
                   0
root@1p-1/2-31-11-56:~#
```

5: Format The EBS Volume and Create Partition.

CMD: mkfs -t ext4 /dev/xvdf

6: Create a Mount Point & Mount the Volume.

CMD: mkdir /data

CMD: mount /dev/xvdf /data

```
🚸 root@ip-172-31-11-56:
root@ip-172-31-11-56:~# mkdir /data
root@ip-172-31-11-56:~# mount /dev/xvdf /data
root@ip-172-31-11-56:~# df -h
                 Size Used Avail Use% Mounted on
Filesystem
/dev/root
                       1.8G
                 6.8G
                              5.0G
                                    26% /
                                     0% /dev/shm
                 479M
                             479M
tmpfs
                          0
                 192M
                       880K
                              191M
tmpfs
                                     1% /run
                                     0% /run/lock
tmpfs
                 5.0M
                          0
                              5.0M
/dev/xvda16
                 881M
                        86M
                              734M
                                    11% /boot
                       6.2M
                               99M
/dev/xvda15
                 105M
                                     6%
                                        /boot/efi
                                        /run/user/1000
tmnfc
                 96M
                        12K
                              96M
                                     1%
                       24K 4.6G
                                     1% /data
/dev/xvdf
                4.9G
root@1p-1/2-31-11-56:~#
```

7: For Permanent Mount After Reboot (Edit fstab)

Check the UUID of the volume:

CMD: blkid /dev/xvdf

```
root@ip-172-31-11-56:~# blkid /dev/xvdf
/dev/xvdf: UUID="c57e5450-2fbf-4b24-801a-66c64589df18" BLOCK_SIZE="4096"
" TYPE="ext4"
root@ip-172-31-11-56:~# vi /etc/fstab
```

Edit the /etc/fstab file:

CMD: vi /etc/fstab

Insert into file at last:

UUID= (UUID) /data ext4 defaults,nofail 0 2

```
root@ip-172-31-11-56:~# cat /etc/fstab

LABEL=cloudimg-rootfs / ext4 discard,commit=30,errors=remoun

t-ro 0 1

LABEL=BOOT /boot ext4 defaults 0 2

LABEL=UFFT /boot/efi vfat umask-0077 0 1

UUID=c57e5450-2fbf-4b24-801a-66c64589df18 /data ext4 defaults,nofai

1 0 2

root@ip-1/2-31-11-56:~#
```

8: Test fstab (Don't Reboot Yet!)

CMD: mount -a: no error found, it means the entry is correct. we can safely reboot

8: Test the volume.

```
root@ip-172-31-11-56:~# mount -a
root@ip-172-31-11-56:~# df -h
                       Used Avail Use% Mounted on
Filesystem
                 Size
/dev/root
                 6.8G
                       1.8G
                              5.0G
                                    26% /
tmpfs
                                     0% /dev/shm
                 479M
                          0
                              479M
tmpfs
                 192M
                       880K
                              191M
                                     1% /run
                                     0% /run/lock
tmpfs
                 5.0M
                              5.0M
                                    11% /boot
/dev/xvda16
                 881M
                              734M
                        86M
'dev/xvda15
                 105M
                       6.2M
                               99M
                                         /boot/efi
/dev/xvdf
                 4.9G
                         24K
                              4.6G
                                         /data
 JOCAID-TIZ-JT-TT-JO.~#
```

9: Test the volume after reboot instance.

