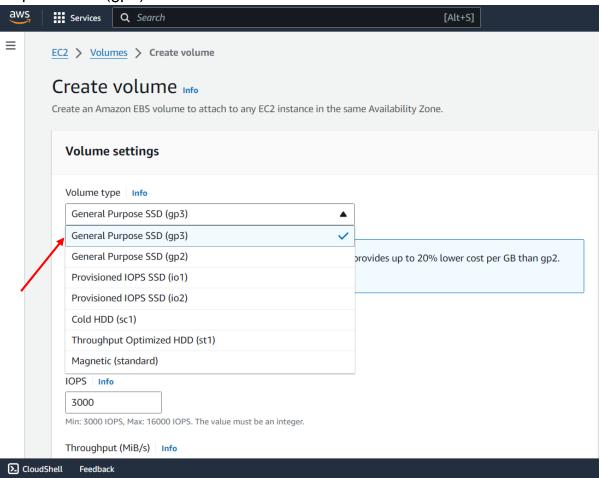
Prerequisite: Create an Ec2 Instance in your AWS console

NOW TO ADD ELASTIC BLOCK STORE

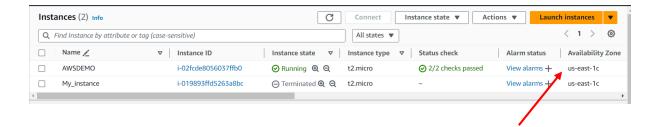
Step 1: Go to Volumes under Elastic Block Store and click on Create Volume button



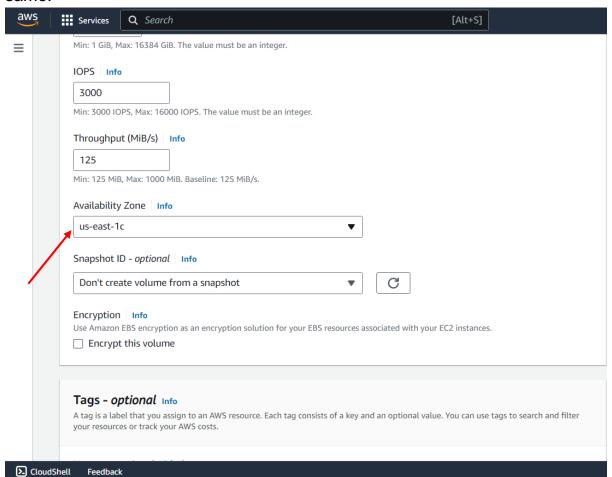
Step 2: Select Volume type for demo will go with default one which is general purpose SSD (gp3)



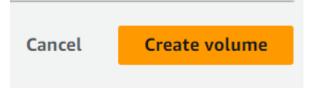
Now you need to check in which availability zone your instances are created on that Az only we have to create our EBS volume so that we can attach it.

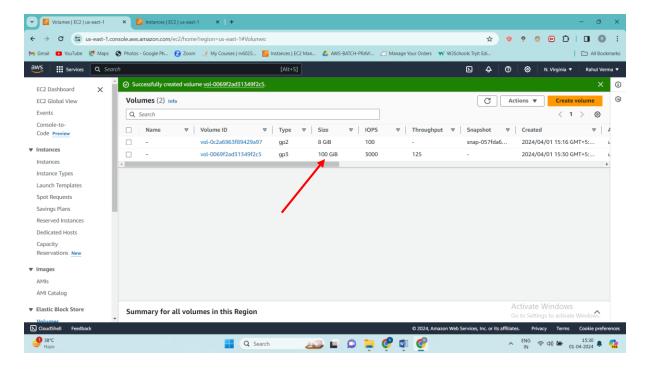


Our instance is created under **us-east-1c** availability zone so will select the same.

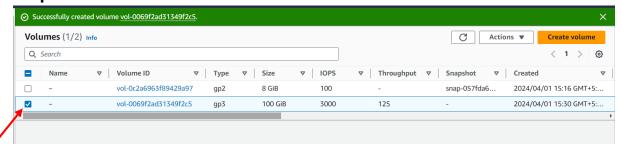


Step 3: And click on create volume and it will create our 100gb EBS volume

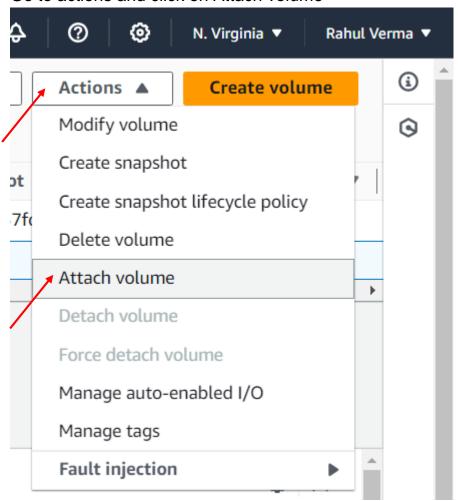




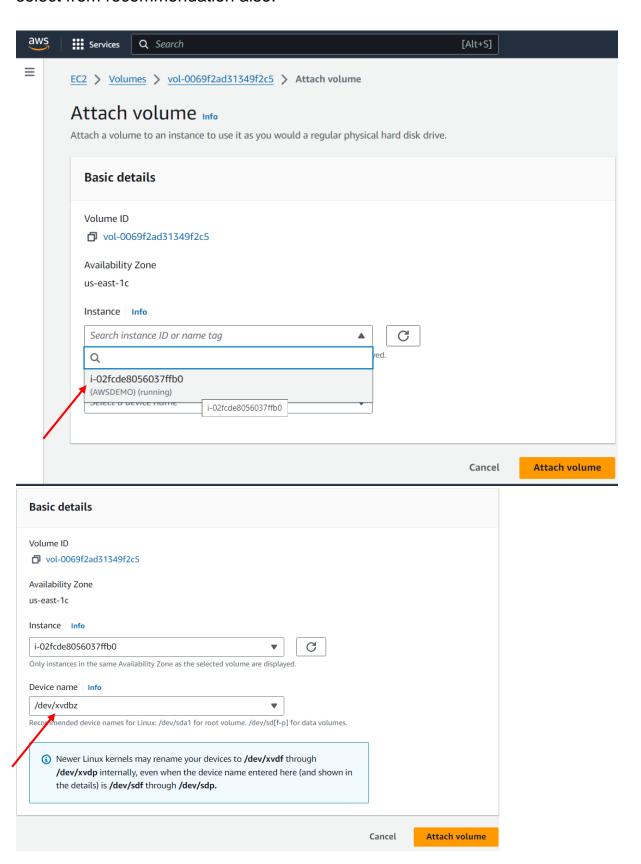
Step 4: Now select that volume



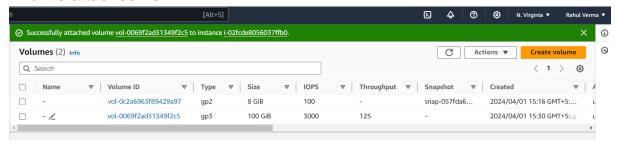
Go to actions and click on Attach volume



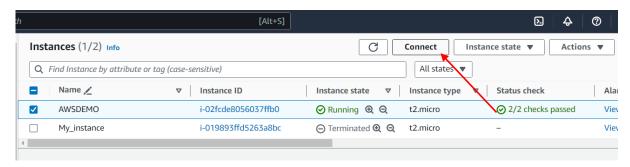
Step 5: Attach it to your instance im selecting "AWSDEMO" Instance which is available in useast-1c and define drive name such as-/dev/xvdbz or you can select from recommendation also.



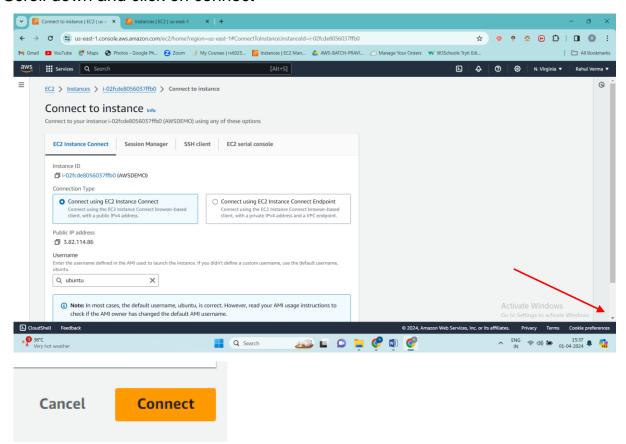
And it's attached now



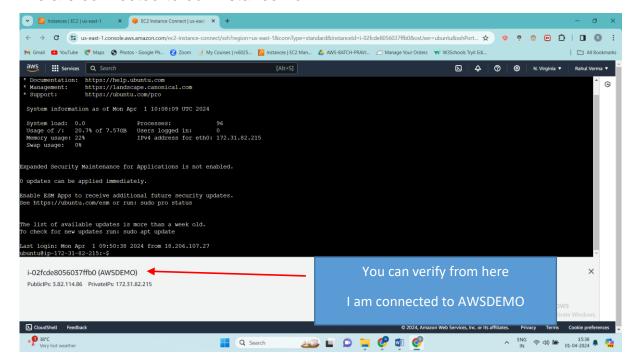
Step 6: Now to check if it's attached or not let's connect to our EC2 Instance. So go back to EC2 and select the instance in which you attached you EBS volume. And click on connect



Scroll down and click on connect



We are connected to our instance now



Step 7:

Please NOTE: whatever is written in **Bold and marked with Yellow** colour are commands you can copy that

Now by using simple commands will check

```
    sudo su -

            ( to become root user)

    df -h

            ( It will display information about file system disk space usage on the mounted file system)
```

You can see our EBS volume is not there in the below pic

```
ubuntu@ip-172-31-82-215:~$ sudo su -
root@ip-172-31-82-215:~# df -h
Filesystem
               Size Used Avail Use% Mounted on
/dev/root
               7.6G
                     1.6G 6.0G
                                 21% /
tmpfs
               475M
                       0
                           475M
                                  0% /dev/shm
tmpfs
               190M
                     848K 190M
                                  1% /run
               5.0M
                      0 5.0M
                                  0% /run/lock
tmpfs
/dev/xvda15
               105M
                     6.1M
                                  6% /boot/efi
                            99M
tmpfs
                95M
                     4.0K
                            95M
                                  1% /run/user/1000
root@ip-172-31-82-215:~#
```

We write the below command also

Isblk (to see list of blocks it will show where it is mounted)

```
root@ip-172-31-82-215:~# lsblk
NAME
         MAJ:MIN
                   RM SIZE RO TYPE MOUNTPOINTS
loop0
                    0 24.9M
           7:0
                             1 loop /snap/amazon-ssm-agent/7628
loop1
                    0 55.7M 1 loop /snap/core18/2812
           7:1
loop2
           7:2
                    0 63.9M 1 loop /snap/core20/2182
                        87M 1 loop /snap/lxd/27037
loop3
           7:3
                    0
loop4
           7:4
                    0 40.4M 1 loop /snap/snapd/20671
xvda
         202:0
                    0
                         8G
                            0 disk
         202:1
                    0 7.9G
                            0 part /
 -xvda1
 -xvda14 202:14
                    0
                             0 part
                         4M
 -xvda15 202:15
                    0
                       106M
                             0 part /boot/efi
xvdbz
         202:19712
                    0
                       100G
                             0 disk
root@ip-172-31-82-215:~#
```

So in above pic you can see it is showing xvdbz: 100 Gib

So "xvdbz" is our disk name

Disk is not mounted that's why it's not working

So to mount the disk let's check if any file system is present or not

file -s /dev/"drivename" my drive name is xvdbz which is 100 Gib

so command would be-

file -s /dev/xvdbz

```
root@ip-172-31-82-215:~# file -s /dev/xvdbz
/dev/xvdbz: data
root@ip-172-31-82-215:~#
```

So there is no file system, now let's make the file system

mkfs -t ext4 /dev/xvdbz "xvdbz is my EBS drive name"

Now we have to make a folder where it will mount or we can say it will be our mounting point

```
mkdir ebs (it will make a file directory named as ebs)
```

Is (to list our)

```
root@ip-172-31-82-215:~# mkdir ebs
root@ip-172-31-82-215:~# ls
ebs snap
root@ip-172-31-82-215:~#
```

You can see in the above image "ebs" is created

Command to mount

```
mount /dev/xvdbz ebs/ (xvdbz is my EBS drive name)
```

and it's done

```
root@ip-172-31-82-215:~# mount /dev/xvdbz ebs/
root@ip-172-31-82-215:~#
```

now you can check it with

```
Isblk (it will be mounted to ebs)
```

our EBS volume xvdbz is mounted

```
root@ip-172-31-82-215:~# lsblk
NAME
          MAJ:MIN
                     RM SIZE RO TYPE MOUNTPOINTS
100p0
                     0 24.9M 1 loop /snap/amazon-ssm-agent/7628
            7:0
loop1
            7:1
                     0 55.7M 1 loop /snap/core18/2812
            7:2 0 63.9M 1 loop /snap/core20/2182
7:3 0 87M 1 loop /snap/lxd/27037
7:4 0 40.4M 1 loop /snap/snapd/20671
loop2
loop3
loop4
         202:0
xvda
                     0
                           8G
                                0 disk
 -xvda1 202:1
                     0 7.9G
                                0 part /
 -xvda14 202:14
                      0
                            4M
                                0 part
 -xvda15 202:15
                      0 106M
                                0 part /boot/efi
                                0 disk /root/ebs
xvdbz
          202:19712 0 100G
root@ip-172-31-82-215:~#
```

Note: Please do not forget to delete all the Instances and resources after your practice or else it might charge you.

Thank You