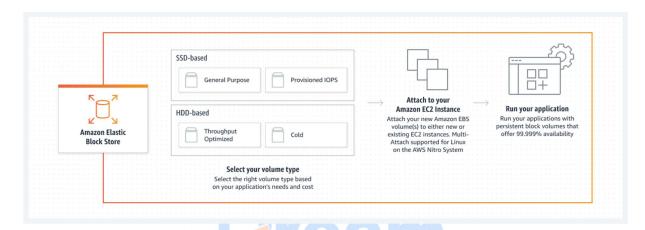


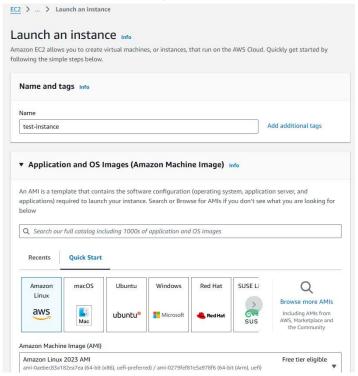
Amazon Elastic Block Store (EBS):

- Amazon Elastic Block Store (Amazon EBS) is an easy-to-use, scalable, high-performance block-storage service designed for Amazon Elastic Compute Cloud (Amazon EC2).
- It provides virtual hard drives for your cloud servers on AWS.
- You can use these virtual hard drives to store data, install software and many more.
- It is like having a storage solution which is flexible and can be easily adjusted to your needs, like adding or removing hard drives from/to a computer system.
- Root volume is the storage in EC2 where our OS gets installed. This is called as EBS.
- We can attach multiple EBS volumes to a single EC2 instance.
- EBS volumes are created under availability zones, this can be attached to the instances running under the same availability zones.



Login to AWS console and navigate to EC2 Dashboard.

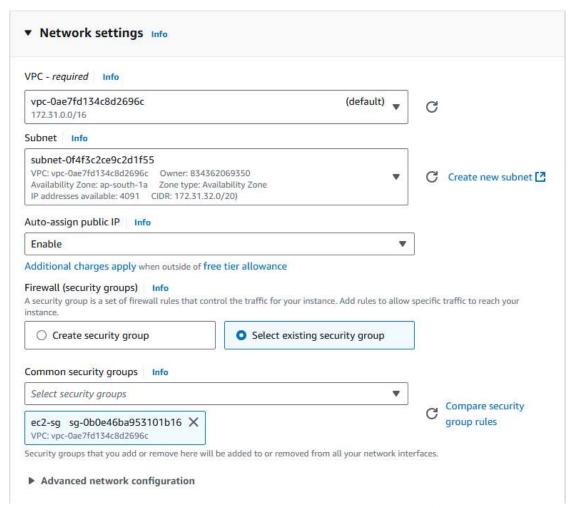
Launch an EC2 instance and add a volume while creating the instance.



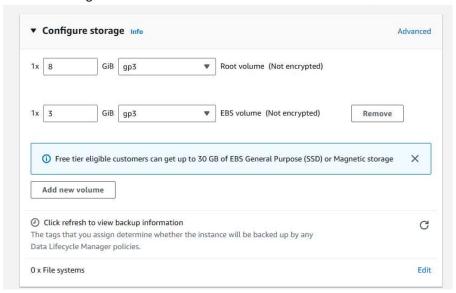


Edit network settings.

Choose a subnet type - ex- ap-south-1a



Add new EBS volume under storage.





Now launch the instance.

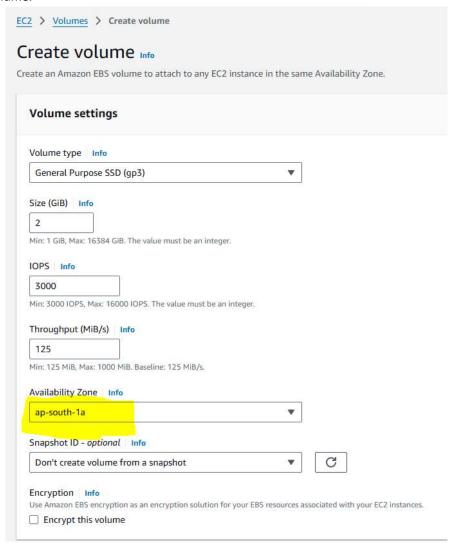
Login to the instance and check the block storage devices by using the list block(Isblk) command.

```
[ec2-user@ip-172-31-41-155 ~]$ lsblk
         MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
NAME
xvda
         202:0
                  0
                     8G 0 disk
                     8G 0 part /
         202:1
                 0
 -xvda1
 -xvda127 259:0
                0 1M 0 part
                 0 10M 0 part /boot/efi
 xvda128 259:1
         202:16
                 0
                     3G 0 disk
[ec2-user@ip-172-31-41-155 ~]$
```

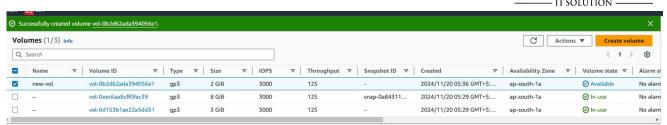
Now create a new EBS volume.

Login to AWS console and navigate to EC2 Dashboard. Click on Volumes present under Elastic Block Store.

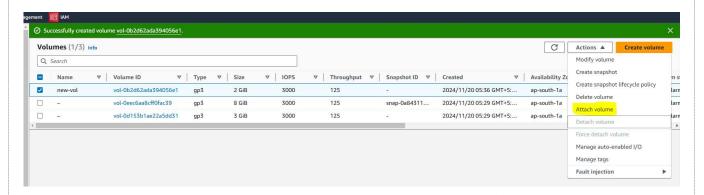
Click on Create Volume.

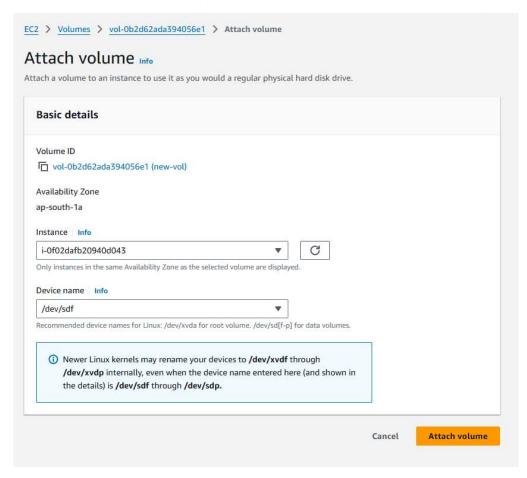






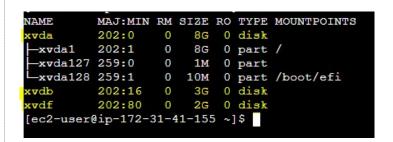
Let's attach this volume with the existing EC2 instance.



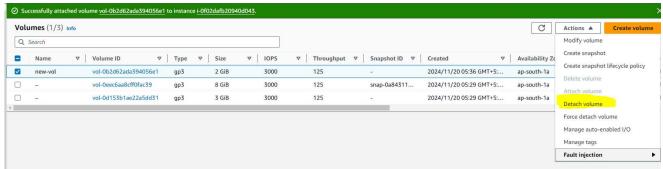


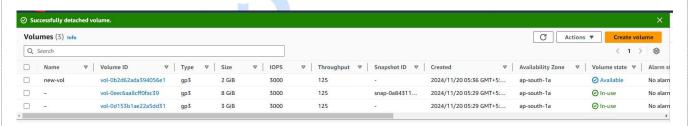


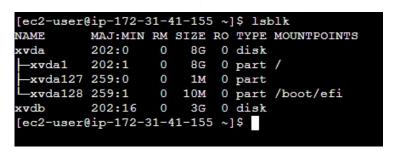




To unmount, we will choose the detach option, we cannot detach the root volume.







If you terminate the instance, root volume attached to it will get deleted automatically, but other volumes we created will remain as it is.

