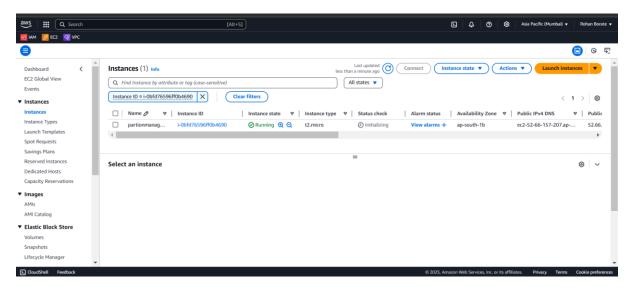
Temporary Partition management

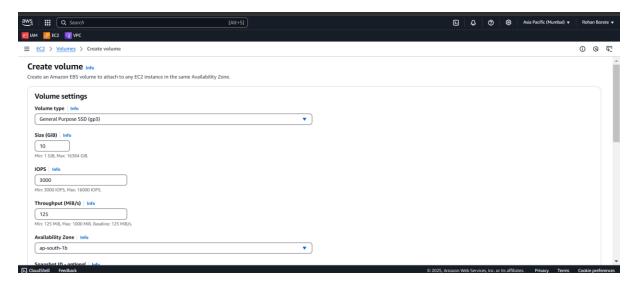
Create an EC2 instance →



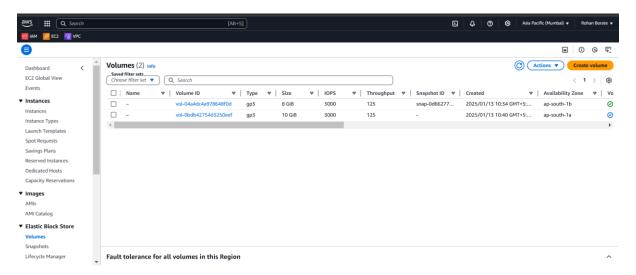
Login to this instance and check available volumes and partitions

Command #Isblk

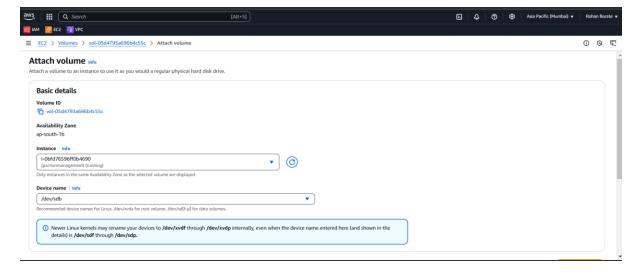
Crete new volume and attach this volume to our created instance



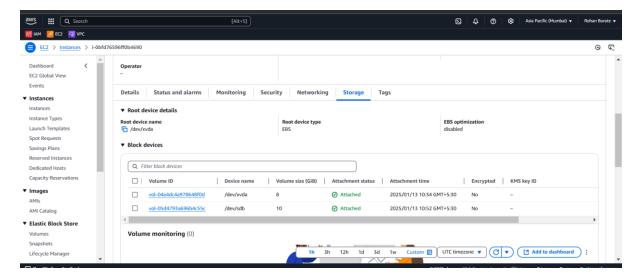
Volume is created



Attach volume to the EC2 instance click on volume → action → attach volume



Check in instance details ,volume is attached or not



Go to instance login and check available volumes #lsblk



Xvdb , 10 gb new volume is available , now make the partition of that volume

Usning #fdisk command fdisk /dev/xvdb

```
Ec2-user@ip-172-31-11-215 -]s sudo -i
rcot@ip-172-31-11-215 -]s sudo -i
rcot@ip-172-31-11-215 -]s sudo -i
rcot@ip-172-31-11-215 -]s lsblk
NAME MAJHIN RM SIZE RO TYPE MOUNTPOINTS
xvda 20210 0 86 0 disk
-xvda1 20211 0 86 0 part /
-xvda127 25910 0 1M 0 part /boot/efi
xvdb 20215 0 180 0 disk
rcot@ip-172-31-11-215 -]s fdisk /dev/xvdb^C
rcot@ip-172-31-11-215 -]s fdisk /dev/xvdb

Melcome to fdisk (util-tinux 2.37.4).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Device does not contain a recognized partition table.
Created a new DOS disklabel with disk identifier 0xc06999e7.

Command (m for help): m

Help:

DOS (MBR)
a toggle a bootable flag
b edit nested BSD disklabel
c toggle the dos compatibility flag

Generic
d delete a partition
F list free unpartition d space
l list known partition table
l list known partition table
l list known partition table
p print the partition table
```

Press n for new partition

```
Command (m for help): n
Partition type
   p primary (0 primary, 0 extended, 4 free)
   e extended (container for logical partitions)
Select (default p): p
Partition number (1-4, default 1): 1
First sector (2048-20971519, default 2048):
Last sector, +/-sectors or +/-size{K,M,G,T,P} (2048-20971519, default 20971519): +5G

Created a new partition 1 of type 'Linux' and of size 5 GiB.

Command (m for help): w
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.
```

Check with Isblk that partion is visible

Now attach the file system to partition

#mkfs.ext4 /dev/xvdb1

```
[root@ip-172-31-11-215 ~]# lsblk
NAME MAJKIN RM SIZE RO TYPE MOUNTPOINTS
xvda 202:0 0 8G 0 disk
|-xvdal 202:1 0 8G 0 part /
|-xvdal27 259:0 0 1M 0 part |
|-xvdal28 259:1 0 10M 0 part |
|-xvdal28 259:1 0 10M 0 part |
|-xvdbl 202:17 0 5G 0 part |
|-xvdal28 259:1 0 100 0 part |
|-xvdal28 250 0 part |
|-xvdal28 250 0 part |
|-xvd
```

Mount the partition to a temporary directory

Create a directory ->mkdir /mnt/temp

mount /dev/xvdb1 /mnt/temp
mount (source) (destination)

```
Vaults
                    ■ SFTP
                               X ec2-52-66-157-207.ap-south-...
[root@ip-172-31-11-215 ~]# mkdir /mnt/temp
[root@ip-172-31-11-215 ~]# mount /dev/xvdb1 /mnt/temp
[root@ip-172-31-11-215 ~]# partprobe
[root@ip-172-31-11-215 ~]# lsblk
          MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
NAME
xvda
          202:0 0 8G 0 disk
_xvda1 202:1 0 8G 0 part /

_xvda127 259:0 0 1M 0 part

_xvda128 259:1 0 10M 0 part /boot/efi
xvdb 202:16 0 10G 0 disk
└─xvdb1 202:17 0 5G 0 part /mnt/temp
xvdb
[root@ip-172-31-11-215 ~]# df -h
Filesystem
              Size Used Avail Use% Mounted on
devtmpfs
               4.0M
                         0 4.0M
                                   0% /dev
               475M
                         0 475M
                                   0% /dev/shm
tmpfs
               190M 456K 190M
tmpfs
                                   1% /run
/dev/xvda1
              8.0G 1.6G 6.4G 20% /
               475M
                       0 475M
                                   0% /tmp
tmpfs
/dev/xvda128
                10M 1.3M 8.7M
                                   13% /boot/efi
                       0 95M
                95M
                                   0% /run/user/1000
tmpfs
/dev/xvdb1
                                   1% /mnt/temp
                4.9G 24K 4.6G
[root@ip-172-31-11-215 ~]#
```

volume is mounted, but it is temporary mount so after restart of instance, it is not available

Command to unmount partition \rightarrow #umount /mnt/temp

Make Partition using parted command

Commands

#parted /dev/xvdb mklabel gpt mkpart primary ext4 6GiB 9GiB quit

Command Breakdown

1. mklabel gpt

- o This initializes the disk with a GPT (GUID Partition Table).
- GPT supports larger disks and more partitions than the older MBR (Master Boot Record).
- o **Effect:** All existing data on the disk will be lost.

2. mkpart primary ext4 6GiB 9GiB

- Creates a new partition with the following parameters:
 - **Type:** Primary.
 - **Filesystem:** ext4 (the filesystem type is a hint; the partition itself is unformatted at this point).
 - Start: 6GiB (partition begins at 6 GiB from the start of the disk).
 - End: 9GiB (partition ends at 9 GiB from the start of the disk).

3. quit

o Exits the parted utility and saves the changes to the disk.

```
[root@ip-172-31-11-215 ~]# [root@ip-172-31-11-215 ~]# parted /dev/xvdb GNU Parted 3.4 Using /dev/xvdb Welcome to GNU Parted! Type 'help' to view a list of commands. (parted) mklabel gpt Warning: The existing disk label on /dev/xvdb will be destroyed and all data on this disk will be lost. Do you want to continue? Yes/No? yes (parted) mkpart primary ext4 6GiB 10GiB Error: The location 10GiB is outside of the device /dev/xvdb. (parted) mkpart primary ext4 6GiB 9GiB (parted) my my need to update /etc/fstab. [root@ip-172-31-11-215 ~]# [
```

Now partition is done,

```
[root@ip-172-31-11-215 -]#
[root@ip-172-31-11-215 -]#
[root@ip-172-31-11-215 -]# parted /dev/xvdb
GNU Parted 3.4
Using /dev/xvdb
Welcome to GNU Parted! Type 'help' to view a list of commands.
(parted) mklabel gpt
Warning: The existing disk label on /dev/xvdb will be destroyed and all data on this disk will be lost. Do you want to continue?
Yes/No? yes
(parted) mkpart primary ext4 6GiB 10GiB
Error: The location 10GiB is outside of the device /dev/xvdb.
(parted) mkpart primary ext4 6GiB 9GiB
(parted) quit
Information: You may need to update /etc/fstab.

[root@ip-172-31-11-215 -]# lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
xvda 202:0 0 8G 0 disk
-xvdal 202:1 0 8G 0 part /
-xvdal27 259:0 0 1M 0 part /
-xvdal28 259:1 0 10M 0 part /
xvdbl 202:17 0 3G 0 part
[root@ip-172-31-11-215 -]#
```

on the similar like above you just have to mount that partition with #mount command