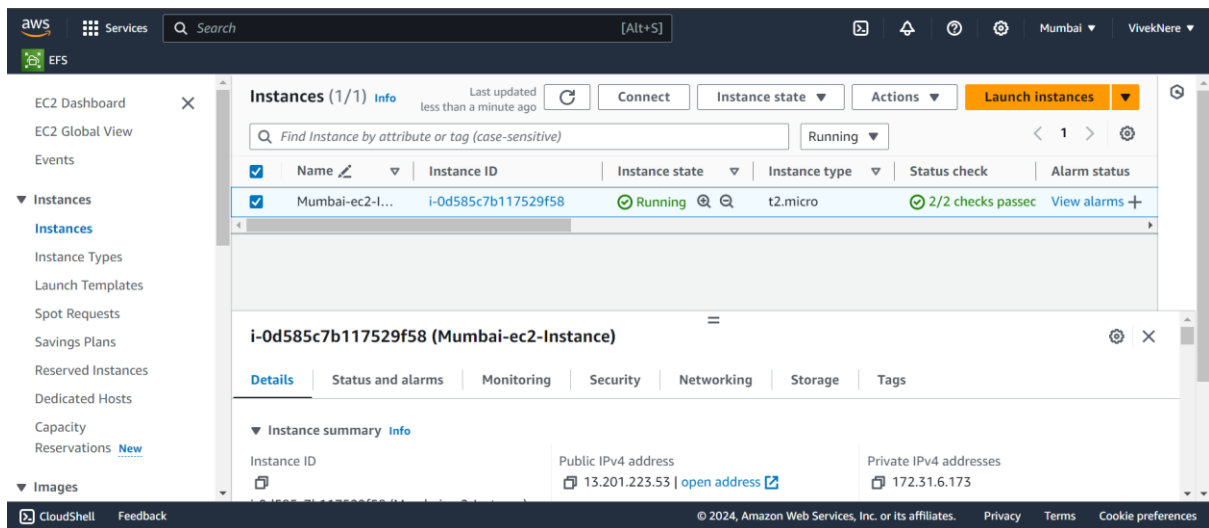


Create one instance and Connect that



Go to root user and we can see there is no EBS volume is attach to the instance right now:

Sudo su -

lsblk

```
root@ip-172-31-6-173:~
Microsoft Windows [Version 10.0.22631.4037]
(c) Microsoft Corporation. All rights reserved.

C:\Users\10748090\Downloads>ssh -i "MumbaiGit-server-key.pem" ec2-user@ec2-13-201-223-53.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-13-201-223-53.ap-south-1.compute.amazonaws.com (13.201.223.53)' can't be established.
ED25519 key fingerprint is SHA256:fZJwdfABxOpXBFakUW7PTTtsNw0e9gew9uSdC90N5PU.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-13-201-223-53.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.

#####
##### Amazon Linux 2023
#####
##### https://aws.amazon.com/linux/amazon-linux-2023
#####

[ec2-user@ip-172-31-6-173 ~]$ sudo su -
[root@ip-172-31-6-173 ~]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
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
[root@ip-172-31-6-173 ~]#
```

To attach volume we need to first create it. For that click on volume and then click on create volume then select the volume type here we selecting GP2 and size we select 5 gb and select the availability zone where your instance is created. My instance is in ap-south-1b region so im selecting ap-south-1b region and then click on create volume.

Now rename this volume for our reference.

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	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID
<input type="checkbox"/>	VOL2	vol-056c949bd101fd10e	gp2	5 GiB	100	-	-
<input type="checkbox"/>	-	vol-003ba1be69bf1ac69	gp3	8 GiB	3000	125	snap-0641417
<input type="checkbox"/>	-	vol-081ec7d0922122265	gp3	8 GiB	3000	125	snap-0641417
<input checked="" type="checkbox"/>	-	vol-05bf9826fbf04b8f0	gp2	5 GiB	100	-	-
<input type="checkbox"/>	nvme1n1	vol-00bf34b53b634d286	gp2	5 GiB	100	-	-

Edit Name

Mumbai-south-1b-volume

Cancel

Save

Volume ID

vol-05bf9826fbf04b8f0

Size

5 GiB

Type

gp2

Volume status

Okay

Details

Status checks

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Volumes (1/8) Info

Search

	Name	Volume ID	Type	Size	IOPS
<input type="checkbox"/>	VOL2	vol-056c949bd101fd10e	gp2	5 GiB	100
<input type="checkbox"/>	-	vol-003ba1be69bf1ac69	gp3	8 GiB	3000
<input type="checkbox"/>	-	vol-081ec7d0922122265	gp3	8 GiB	3000
<input checked="" type="checkbox"/>	mumbai-south-1b-volume	vol-05bf9826fbf04b8f0	gp2	5 GiB	100
<input type="checkbox"/>	nvme1n1	vol-00bf34b53b634d286	gp2	5 GiB	100

Volume ID: vol-05bf9826fbf04b8f0 (mumbai-south-1b-volume)

Details

Status checks

Monitoring

Tags

Volume ID

vol-05bf9826fbf04b8f0

Size

5 GiB

Type

gp2

Volume status

Okay

Actions

Create volume

Modify volume

Create snapshot

Create snapshot lifecycle policy

Delete volume

Attach volume

Detach volume

Force detach volume

Manage auto-enabled I/O

Manage tags

Fault injection

CloudShell

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EFs

EC2 > Volumes > vol-05bf9826fbf04b8f0 > Attach volume

Attach volume Info

Attach a volume to an instance to use it as you would a regular physical hard disk drive.

Basic details

Volume ID

vol-05bf9826fbf04b8f0 (mumbai-south-1b-volume)

Availability Zone

ap-south-1b

Instance

Info

I-0d585c7b117529f58

I-063ace4ce5a82ad36 (dev-server) (stopped)

I-07b9ca4478642f18d (DB-SERVER) (stopped)

I-0d585c7b117529f58 (Mumbai-ec2-instance) (running)

/dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

CloudShell

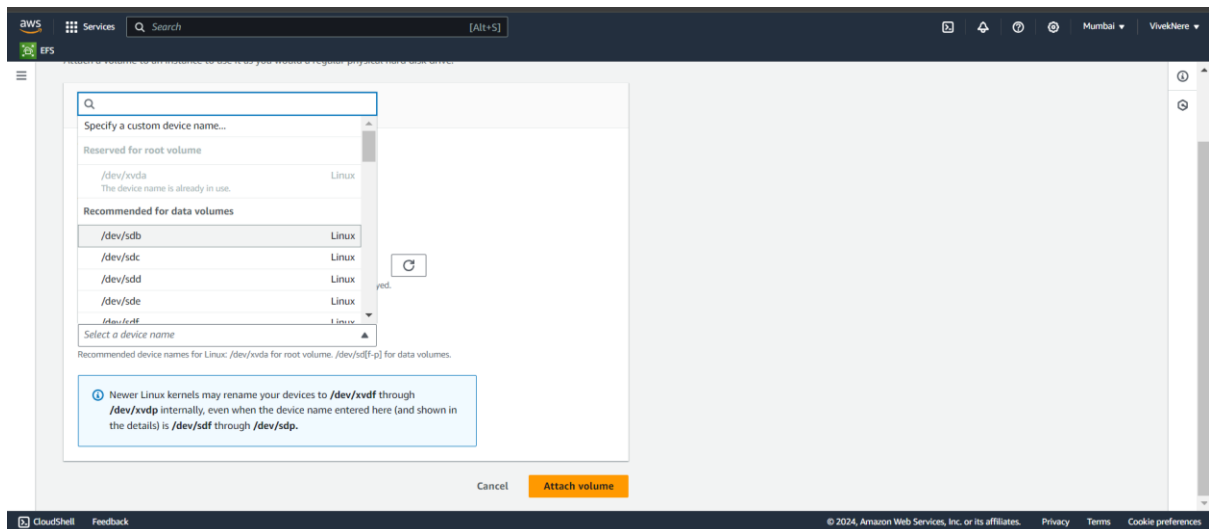
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```

root@ip-172-31-6-173:~# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
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   5G  0 disk 
root@ip-172-31-6-173:~#

```

Now we have to creates a file system on our machine for that we use

mkfs.ext4 /dev/xvdb command

```

root@ip-172-31-6-173:~# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
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   5G  0 disk 
root@ip-172-31-6-173:~# mkfs.ext4 /dev/xvdb
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 1310720 4k blocks and 327680 inodes
Filesystem UUID: 0f17ce15-c459-4e59-ba23-f72f08795a4e
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376, 294912, 819200, 884736

Allocating group tables: done
Writing inode tables: done
Creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done

root@ip-172-31-6-173:~# blkid
/dev/xvda128: SEC_TYPE="msdos" UUID="AE3F-1FEE" BLOCK_SIZE="512" TYPE="vfat" PARTLABEL="EFI System Partition" PARTUUID="df75dd54-56c3-473b-b434-d1bbd1af4515"
/dev/xvda127: PARTLABEL="BIOS Boot Partition" PARTUUID="be846e72-2c7d-4da0-bfae-6f5692bea81c"
/dev/xvda1: LABEL="/" UUID="ce033cb1-d3d9-473c-ba89-939fd978b4cb" BLOCK_SIZE="4096" TYPE="xfs" PARTLABEL="Linux" PARTUUID="d6103290-f5dd-4c57-9b-a8-9837a4d64731"
/dev/xvdb: UUID="0f17ce15-c459-4e59-ba23-f72f08795a4e" BLOCK_SIZE="4096" TYPE="ext4"
root@ip-172-31-6-173:~#

```

Now we have to mount our disk in a specific folder so we need to create one folder name as data and Now we want to mount a disk to the data folder.

```
mkdir /data
```

```
mount /dev/xvdb /data/
```

```
df -h
```

```
root@ip-172-31-6-173:~  
[root@ip-172-31-6-173 ~]# mkdir /data  
[root@ip-172-31-6-173 ~]# mount /dev/xvdb /data/  
[root@ip-172-31-6-173 ~]# df -h  
Filesystem      Size  Used Avail Use% Mounted on  
devtmpfs        4.0M   0  4.0M   0% /dev  
tmpfs           475M   0  475M   0% /dev/shm  
tmpfs           190M 456K 190M   1% /run  
/dev/xvda1      8.0G 1.6G 6.5G  20% /  
tmpfs           475M   0  475M   0% /tmp  
/dev/xvda128    10M 1.3M 8.7M  13% /boot/efi  
tmpfs           95M   0   95M   0% /run/user/1000  
/dev/xvdb       4.9G 24K  4.6G   1% /data  
[root@ip-172-31-6-173 ~]#
```

Our disk is successfully mount to the data folder now we need to create some sample data file in data folder.

```
cd /data
```

```
touch Vivek.txt{1..100}
```

```
ll
```

```
root@ip-172-31-6-173:/data  
[root@ip-172-31-6-173 ~]# cd /data  
[root@ip-172-31-6-173 data]# touch vivek.txt{1..100}  
[root@ip-172-31-6-173 data]# ll  
total 16  
drwx----- 2 root root 16384 Sep  7 15:44 lost+found  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt1  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt10  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt100  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt11  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt12  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt13  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt14  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt15  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt16  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt17  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt18  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt19  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt2  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt20  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt21  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt22  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt23  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt24  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt25  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt26  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt27  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt28  
-rw-r--r-- 1 root root    0 Sep  7 15:51 vivek.txt29
```

```
UUID=                /data ext4 defaults 0 0
```

```
root@ip-172-31-6-173:~  
#  
UUID=ce033cb1-d3d9-473c-ba89-939fd978b4cb / xfs defaults,noatime 1 1  
UUID=AE3F-1FEE /boot/efi vfat defaults,noatime,uid=0,gid=0,umask=0077,shortname=winnt,x-systemd.automount 0 2  
UUID=0f17ce15-c459-4e59-ba23-f72f08795a4e /data ext4 defaults 0 0 |  
-- INSERT --
```

Even after system reboot our files are saved.

