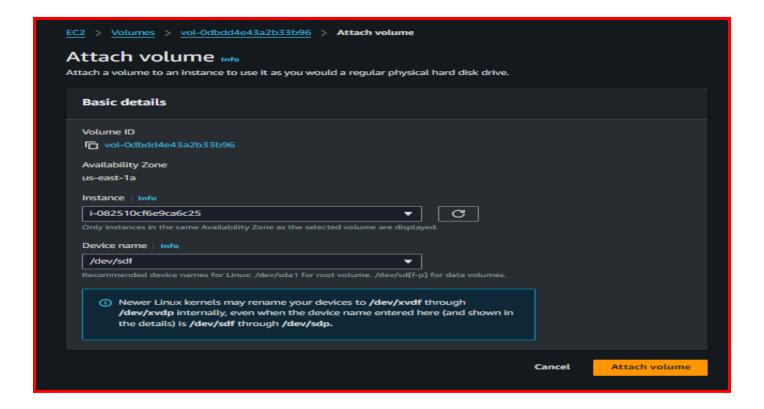
VOLUME MOUNTING IN LINUX

1. Login into the AWS EC2 Instance.

```
aws
         Services
                     Q Search
ubuntu@ip-172-31-45-78:~$ date
Thu Oct 17 02:56:12 UTC 2024
ubuntu@ip-172-31-45-78:~$ df -h
Filesystem
                Size
                       Used Avail Use% Mounted on
/dev/root
                6.8G
                       1.8G
                             5.0G
                                    27% /
tmpfs
                479M
                             479M
                                     0% /dev/shm
                          0
                                     1% /run
tmpfs
                192M
                       868K
                             191M
tmpfs
                             5.0M
                                     0% /run/lock
                5.0M
                          0
/dev/xvda16
                881M
                        76M
                             744M
                                    10% /boot
                                     6% /boot/efi
/dev/xvda15
                105M
                       6.1M
                              99M
                              96M
                                     1% /run/user/1000
tmpfs
                  96M
                        12K
ubuntu@ip-172-31-45-78:~$
```

- 2. Attach the EBS Volume to the EC2 Instance
- Go to the AWS Console.
- Navigate to EC2 Dashboard > Elastic Block Store > Volumes.
- Select your volume, then choose Actions > Attach Volume.
- Choose the EC2 instance from the drop-down list and select the device name (e.g., /dev/xvdf).





- 3. <u>Verify the Volume Attachment</u>
- On your EC2 instance, run the following command to check if the new volume is attached:

Isblk

• This will list all block devices. Look for a new device like /dev/xvdf.

```
aws
          Services
                     Q Search
ubuntu@ip-172-31-45-78:~$
                            lsblk
NAME
         MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
                   0 25.2M
            7:0
                            1 loop /snap/amazon-ssm-agent/7993
loop0
            7:1
                   0 38.8M
                            1 loop /snap/snapd/21759
loop1
                             1 loop /snap/core18/2829
1 loop /snap/core18/2846
loop2
            7:2
                   0 55.7M
                   0 55.4M
loop3
            7:3
xvda
         202:0
                   0
                         8G
                             0 disk
  xvda1
         202:1
                   0
                         7G
                             0 part
                   0
  xvda14 202:14
                         4M
                             0 part
  xvda15 202:15
                   0
                      106M
                             0 part /boot/efi
  xvda16 259:0
                   0
                       913M
                             0 part
                                     /boot
xvdf
         202:80
                   0
                         5G
                             0 disk
ubuntu@ip-172-31-45-78:~$
```

4. Create a Filesystem on the Volume

• If the volume is new and has no file system, create one using mkfs.

sudo mkfs -t ext4 /dev/xvdf

5. Create a Mount Point

• Choose a directory where you want to mount the volume, for example, /mnt/new volume:

sudo mkdir /mnt/my new volume

```
ubuntu@ip-172-31-45-78:~$ ls
awkprac info.txt logs.log
ubuntu@ip-172-31-45-78:~$ sudo ls /mnt/
my_new_volume
ubuntu@ip-172-31-45-78:~$
```

6. Mount the Volume

• Mount the volume to the directory:

sudo mount /dev/xvdf /mnt/my_new_volume

7. Verify the Mount

• Check if the volume is mounted successfully:

df-h

```
ubuntu@ip-172-31-45-78:~$ df -h
Filesystem
                     Used Avail Use% Mounted on
                Size
/dev/root
                6.8G
                      1.9G
                            4.9G
                                  28% /
tmpfs
                            479M
                                   0% /dev/shm
                479M
                        0
tmpfs
               192M
                           191M
                                  1% /run
                      872K
                                  0% /run/lock
tmpfs
                5.0M
                           5.0M
                        0
/dev/xvda16
                                 10% /boot
               881M
                       76M
                            744M
/dev/xvda15
                                   6% /boot/efi
               105M
                      6.1M
                             99м
tmpfs
                 96M
                       12K
                             96M
                                   1% /run/user/1000
                                   1% /mnt/my new volume
/dev/xvdf
                4.9G
                       24K
                            4.6G
ubuntu@ip-172-31-45-78:~$
```

• You can see here the 5 gb volume /dev/xvdf, is visible here.