# **AWS EC2**

## **Demo Document 4**

# edureka!



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## **Attaching the EBS Volume Externally**

#### Step 1: Create A Volume

• In the EC2 dashboard, select Volumes and click on Create Volumes



• Again, click on Create Volume

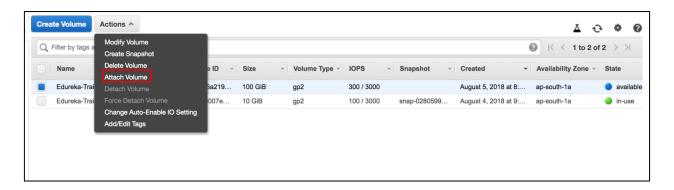


• Close the window once created

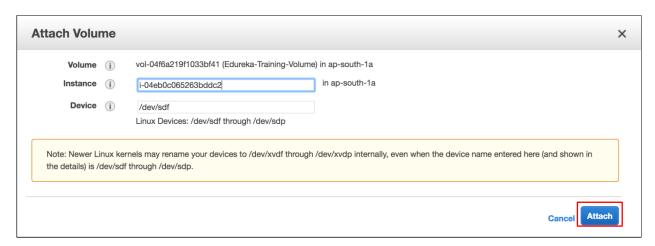


#### Step 2: Attach the volume to your EC2 Instance

• Under Actions, click on Attach Volumes



Under Instance, write the instance id



#### Step 3: Mount the volume to directory

- Log in to EC2 instance
- In your terminal, type the command to list all available disks

Isblk ec2-user@ip-172-31-13-110 ~]\$ lsblk MAJ:MIN RM IAME SIZE RO TYPE MOUNTPOINT 0 disk vda 202:0 0 8G xvda1 202:1 0 8G 0 part / 202:80 100G 0 0 disk vdf

Check if the volume has any data using the following command

sudo file -s /dev/xvdf

• If the above command output shows "/dev/xvdf: data," it means your volume is empty

```
[ec2-user@ip-172-31-20-254 ~]$ sudo file -s /dev/xvdf
/dev/xvdf: data
[ec2-user@ip-172-31-20-254 ~]$ ■
```

```
[[ec2-user@ip-1/2-31-20-254 ~]$ sudo mkfs -t ext4 /dev/xvdf
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
6553600 inodes, 26214400 blocks
1310720 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=2174746624
800 block groups
32768 blocks per group, 32768 fragments per group
8192 inodes per group
Superblock backups stored on blocks:
        32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208,
        4096000, 7962624, 11239424, 20480000, 23887872
Allocating group tables: done
Writing inode tables: done
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done
```

Format the volume to ext4 file system using the following command

sudo mkfs -t ext4 /dev/xvdf

Create a directory having the name newvolume to mount our new ext4 volumes

sudo mkdir /newvolume

- Mount the volume to newvolume directory by using the command
- To check the disk space for confirming the volume mount, type the following code

sudo mount /dev/xvdf /newvolume/

cd /newvolume

df -h

```
[ec2-user@ip-172-31-13-110 ~]$ sudo mkdir /newvolume/
[ec2-user@ip-172-31-13-110 ~]$ sudo mount /dev/xvdf /newvolume/
[ec2-user@ip-172-31-13-110 ~]$ cd /newvolume
[ec2-user@ip-172-31-13-110 newvolume]$ df -h
ilesystem
                  Size Used Avail Use% Mounted on
devtmpfs
                                       0% /dev
                            0 477M
                  477M
              494M
tmpfs
                              494M
                                       0% /dev/shm
                            0
tmpfs
                  494M
                        292K
                               494M
                                       1% /run
tmpfs
                  494M
                            0
                               494M
                                       0% /sys/fs/cgroup
/dev/xvda1
                               7.0G
                                      14% /
                  8.0G
                         1.1G
                                       0% /run/user/1000
tmpfs
                   99M
                                 99M
                            0
/dev/xvdf
                   99G
                          61M
                                 94G
                                       1% /newvolume
[ec2-user@ip-172-31-13-110 newvolume]$ Connection reset by 18.212.24.53 port 22
```

• The above command shows the free space in the new volume directory

### **Conclusion:**

We have successfully created an EBS volume and attached to the instance.