Module 7: High Availability, Fault Tolerance And Disaster Recovery

Demo Document 2

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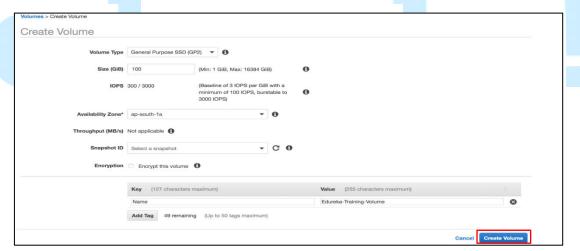
Attaching the EBS volume externally

Step 1: Create A Volume

• In the EC2 dashboard, Select Volumes and click on create volumes



• Again, click on Create Volume

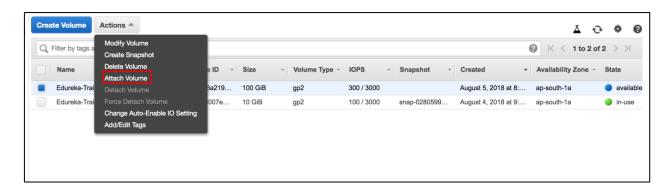


Close the window once created

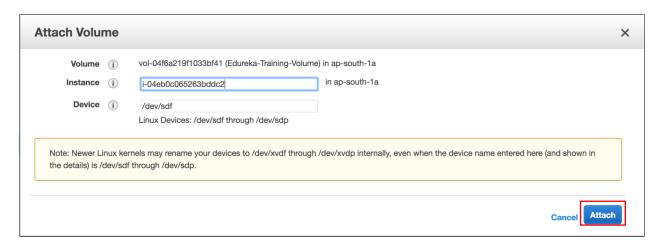


Step 2: Attach the volume to your EC2 instance

• In Actions, click on Attach Volumes



• In Instance, given the instance id



Step 3: Mount the volume on a directory

- Login to EC2 instance
- In your terminal type the command to list all available disks



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

• Check if the volume has any data using the 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
- Create a directory having name **newvolume** to mount our new ext4 volumelets

sudo mkdir /newvolume

Mount the volume to newvolume directory by using the command

sudo mount /dev/xvdf /newvolume/

• To check the disk space for confirming the volume mount

cd /newvolume

```
[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
                477M
                          0
                            477M
                                    0% /dev
tmpfs
               494M
                            494M
                                    0% /dev/shm
                         0
tmpfs
                494M
                      292K
                            494M
                                    1% /run
                494M
                            494M
                                    0% /sys/fs/cgroup
tmpfs
                         0
                                   14% /
/dev/xvda1
                8.0G
                      1.1G
                             7.0G
tmpfs
                 99M
                         0
                              99M
                                    0% /run/user/1000
/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 newvolume directory