**Create an EBS volume and mount on ec2 instance.**

**Step 1**: Create an EC2 instance.

**Step 2**: Go to the volume section and click on create volume.

**Step 3**: Click the action button after selecting the volume, and then choose the attach button.

**Note:**-Verify that the instance and the EBS volume are in the same availability zone.

**Step 4:** Go to Mobaxterm and take a ssh of ec2-instance.

**Note: -** Now use the instructions below to connect to the root.

* sudo su - ----🡪 Enter

**Step 5:**You can now list the disk available on your EC2 instance by firing the below command.

* lsblk ---🡪Enter

**Step 6:**For a detailed description of the volumes throw the below commands.

* fdisk –l ---🡪Enter

**Step 7:**If you want to check whether the disk is mounted to the server or not. You can use the below command.

* df –hT ---🡪Enter

**Step 8:**Using the following command, format the volume as xfs filesystem.

* mkfs -t xfs /dev/xvdf ---🡪Enter

**Step 9:-** Create an extra directory of your choice to mount out a new xfs volume. I am using the name /mnt/my-volume. You can name it something of your choice.

* mkdir /mnt/my-volume ---🡪Enter

**Step 10:-**Mount the volume to the /extra directory using the following command.

* $ mount /dev/xvdf /mnt/my-volume-🡪Enter

**Note:-**

Now with **df -h** command you can check whether it is mounted or not. By using the below command you can go into the extra directory and can create files.

* $ cd /
* Touch file{1..5}.txt

Now here is the problem if you stop and start your instance the data will be gone… So we have to permanently mount the volume.

**Permanently Mount The Volume To The Instance**

* Then log in to the vim editor firing the below command.
* $ vim /etc/fstab
* Write the path where you want to mount and the filesystem you format.
* /dev/xvdf /mnt/my-volume xfs defaults 0 0

That’s it your file is permanently mounted. Now if you stop your instance and start again your data won’t be lost.