#list the blocks you attached \$ lsblk

#formating

\$ mkfs.ext4 /dev/xvdf

```
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Try 'mkfs --help' for more information.
ubuntu@ip-172-31-36-143:~$ lsblk
NAME
          MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
            7:0 0 24.6M 1 loop /snap/amazon-ssm-agent/7528
 Ogoo.
loop0 7:0 0 24.6M 1 Poop /snap/amazon-ssm-s
loop1 7:1 0 55.7M 1 loop /snap/core18/2790
loop2 7:2 0 63.5M 1 loop /snap/core20/2015
loop3 7:3 0 111.9M 1 loop /snap/lxd/24322
loop4 7:4 0 40.8M 1 loop /snap/snapd/20092
kvda 202:0 0 8G 0 disk
-xvdal 202:1 0 7.9G 0 part /
 -xvda14 202:14 0 4M 0 part
L-xvda15 202:15 0 106M 0 part /boot/efi
xvdf 202:80 0 5G 0 disk
 buntu@ip-172-31-36-143:~$ mkfs.ext.4 /dev/xvdf
 command 'mkfs.ext.4' not found, did you mean:
 command 'mkfs.ext4' from deb e2fsprogs (1.46.5-2ubuntul.1)
Try: sudo apt install <deb name>
ubuntu@ip-172-31-36-143:~$ mkfs.ext4 /dev/xvdf
ke2fs 1.46.5 (30-Dec-2021)
 kfs.ext4: Permission denied while trying to determine filesystem size
ubuntu@ip-172-31-36-143:~$ sudo mkfs.ext4 /dev/xvdf
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 1310720 4k blocks and 327680 inodes
Filesystem UUID: 5a88b05b-b795-44ca-86d6-3e3097ffdc2e
Superblock backups stored on blocks:
         32768, 98304, 163840, 229376, 294912, 819200, 884736
Allocating group tables: done
Writing inode tables: done
reating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done
ubuntu@ip-172-31-36-143:~$
```

#make a directory

\$ mkdir /test/

```
ubuntu@ip-172-31-36-143:*s mkdir /test
mkdir: cannot create directory '/test': Permission denied
ubuntu@ip-172-31-36-143:*s sudo !!
sudo mkdir /test
ubuntu@ip-172-31-36-143:*s sudo su
root@ip-172-31-36-143:/home/ubuntu@ cd /
root@ip-172-31-36-143:/home/ubuntu@ cd /
root@ip-172-31-36-143:/f mount /dev/xvdf /test/
root@ip-172-31-36-143:/f mount /dev/xvdf /test/
root@ip-172-31-36-143:/f mountpoint /test
/test is a mountpoint
root@ip-172-31-36-143:/f scho "hello" > file1.txt
root@ip-172-31-36-143:/f scho "hello" > file1.txt
root@ip-172-31-36-143:/f is
abc boot dev file1.txt home lib lib64 lost+found mnt opt qrst run snap sys uvwx yz
bin def etc ghi _jklm lib32 libx32 media nop proc root sbin srv test usr var
```

#mounting between the volume and directory

\$ mount /dev/xvdf /test/

#checking mounted or not

\$ mountpoint /test/

#unmounting

\$ umount /test/

#we can resize manually,and we can see by bellow command.df command displays the amount of disk space available on the file system.

\$ df -h

#we can resize volume block but can't file system,we need to resize file system too by below cmd.

\$ resize2fs /dev/xvdf

\$ df -h (now we can use the block storage which we increased).

#we can't decrease the block storage size but we can do one thing that is we can create another volume and mount it and transfer the data from first volume.

#we can increase the root volume manually and following the bellow steps.

\$ lsblk (#list the blocks,here we can see the block size increased)

\$ df -h (#here we coudn't see the increased size)

#we can't decrease the block storage size but we can do one thing that is we can create another volume and mount it and transfer the data from first volume.

#we can increase the root volume manually and following the bellow steps.

\$ lsblk (#list the blocks,here we can see the block size increased)

\$ df -h (#here we coudn't see the increased size)

\$ file -s /dev/xvdf1 (#this cmd checking that which file system it has)

\$ resize2fs /dev/xvdf1 (here we get nothing to do,because we resize first partitions for that we use 'growpart'cmd)

\$ growpart /dev/xvdf 1 (here we grows partition but not it's file system)

\$ df -h

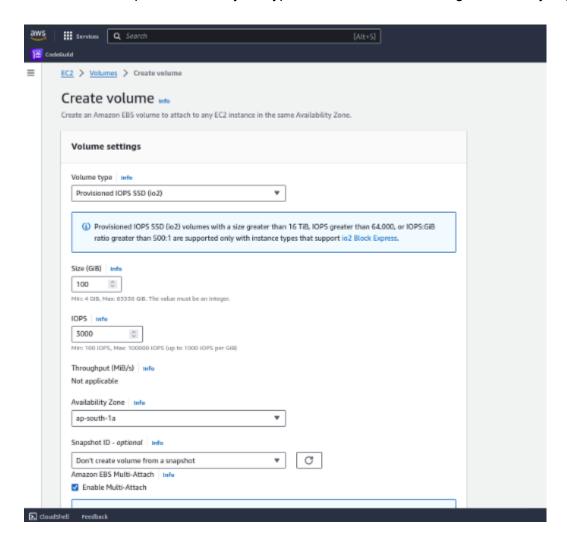
\$ resize2fs /dev/xvdf1

\$ df -h

\$ file -s /dev/xvdf1 (#this cmd checking that which file system it has)

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```

1.EBS multi attach possible for only io2 type of EBS in some other regions io1 may support.



2.here the EBS multi attach supports only for nitro based instances (ex:t3) but not the xen based

Instances (ex:t2).

3.so create t3.micro instances,if we created t2 just stop the instances and modify the instance Type.

4.



