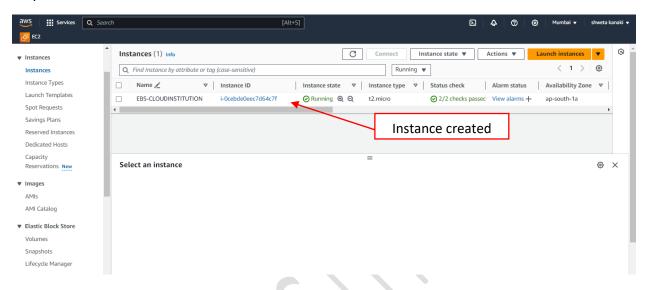
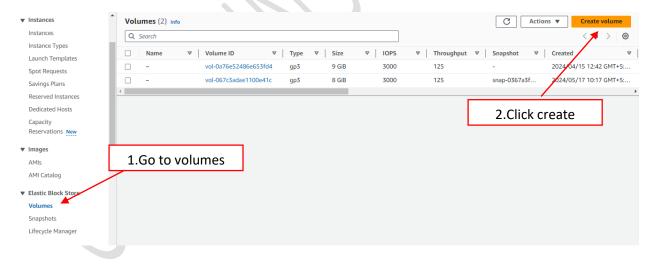


ATTACH AND MOUNT EBS VOLUME TO LINUX INSTANCE

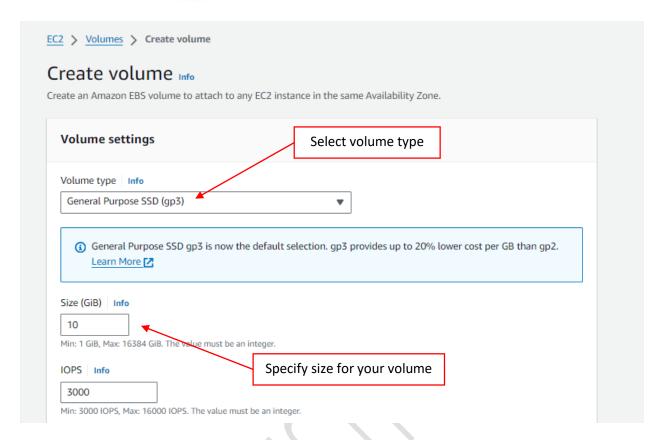
Step 1: Create a EC2 instance



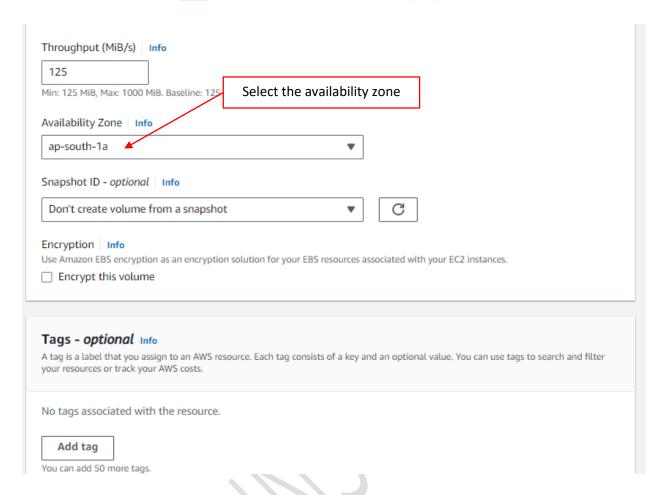
Step 2 : Create a volume



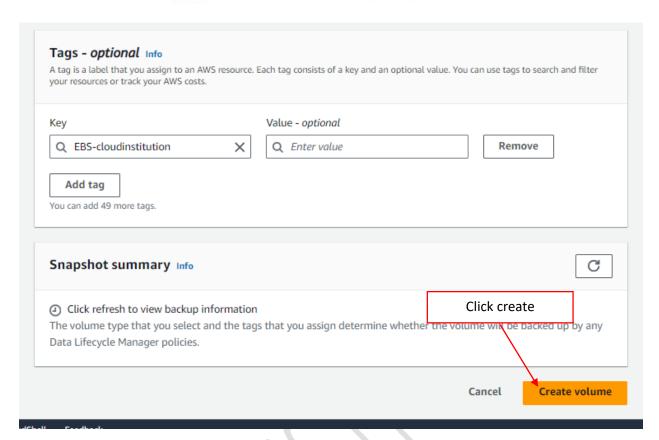


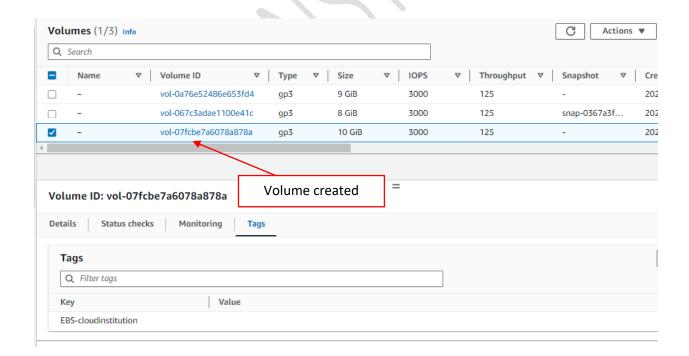






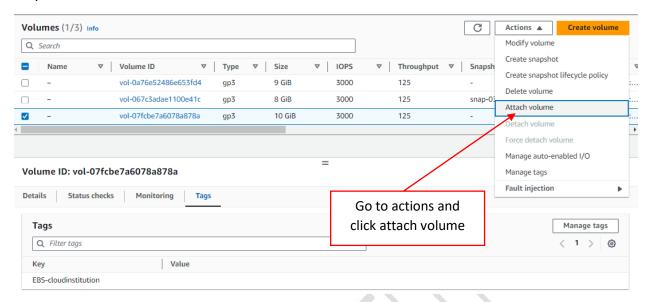


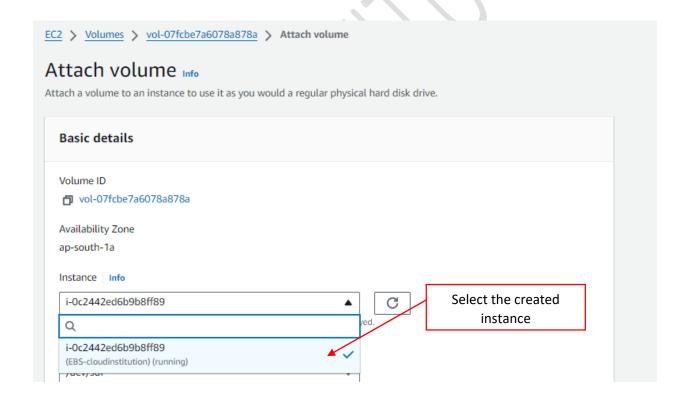






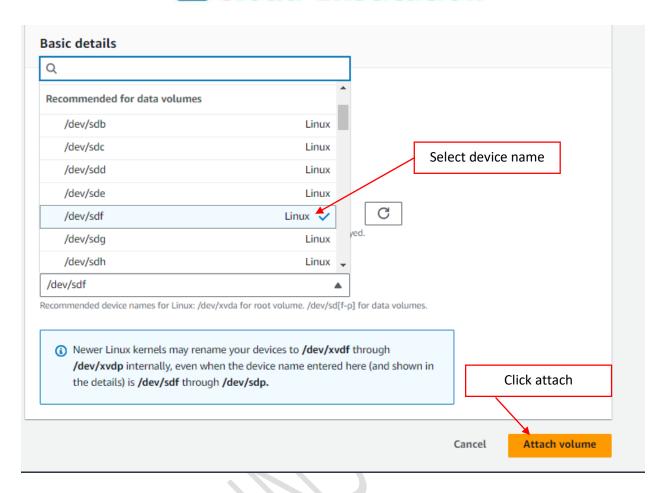
Step 3: Attach volume to the instance

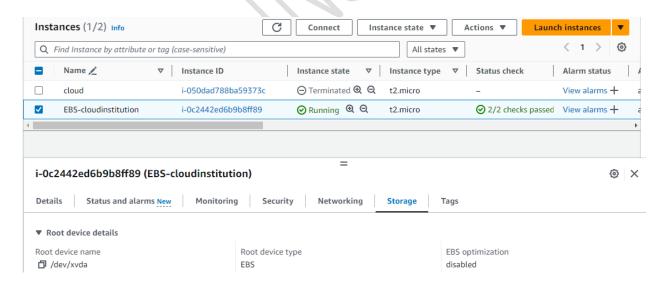




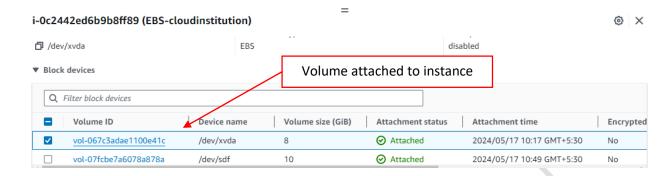


Cloud Institution

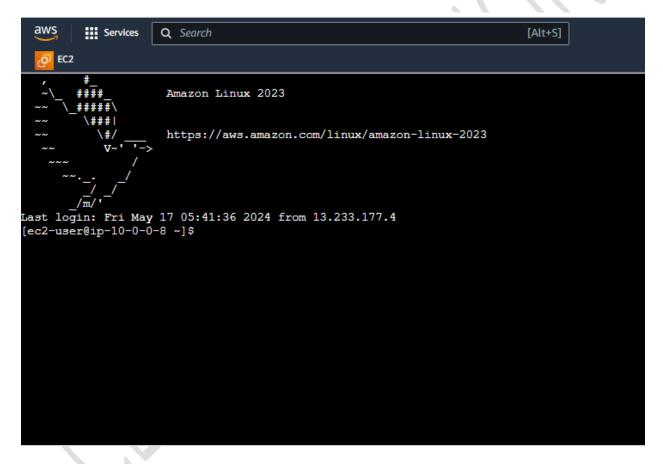






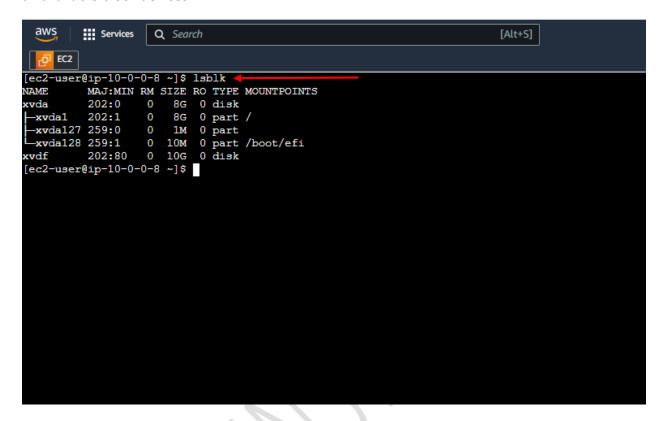


Step 4 : Login to linux instance





The command **Isblk** (short for "list block devices") is used in Linux to display information about all available block devices.





The **df** -**h** command is used in Linux to display information about the disk space usage of all mounted filesystems

```
aws
         Services
                    Q Search
                                                                          [Alt+S]
  © EC2
[ec2-user@ip-10-0-0-8 ~]$ lsblk
NAME
          MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
xvda
          202:0
                  0
                       8G 0 disk
          202:1
                       8G 0 part /
                   0
 -xvda1
                       1M 0 part
 -xvda127 259:0
                   0
 -xvda128 259:1
                   0
                      10M 0 part /boot/efi
                   0 10G
xvdf
          202:80
                          0 disk
[ec2-user@ip-10-0-0-8 ~]$ df -h
Filesystem
                Size
                      Used Avail Use% Mounted on
devtmpfs
                4.0M
                         0
                            4.0M
                                   0% /dev
tmpfs
                475M
                         0
                            475M
                                   0% /dev/shm
                     2.9M
tmpfs
                190M
                            188M
                                   2% /run
                                  20% /
/dev/xvda1
                8.0G
                            6.5G
                      1.6G
                475M
                            475M
                                   0% /tmp
tmpfs
                         0
/dev/xvda128
                 10M
                     1.3M
                           8.7M
                                  13% /boot/efi
                 95M
                         0
                             95M
                                   0% /run/user/1000
tmpfs
[ec2-user@ip-10-0-0-8 ~]$
```





Create a directory

```
aws
                   Q Search
        Services
                                                                       [Alt+S]
  © EC2
ec2-user@ip-10-0-0-8 ~]$ lsblk
VAME
         MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
                 0 8G 0 disk
vda
         202:0
                 0 8G 0 part /
         202:1
-xvda1
                0 1M 0 part
 -xvda127 259:0
 -xvda128 259:1
                 0 10M 0 part /boot/efi
kvdf
         202:80
                0 10G 0 disk
[ec2-user@ip-10-0-0-8 ~]$ df -h
              Size Used Avail Use% Mounted on
Filesystem
devtmpfs
               4.0M
                      0 4.0M
                                 0% /dev
                                 0% /dev/shm
               475M
                       0 475M
tmpfs
              190M 2.9M 188M
8.0G 1.6G 6.5G
mpfs
                                 2% /run
dev/xvda1
                           6.5G 20% /
                                 0% /tmp
               475M
                      0 475M
mpfs
dev/xvda128
               10M 1.3M 8.7M 13% /boot/efi
                95M
                      0
                           95M
mpfs
                                 0% /run/user/1000
[ec2-user@ip-10-0-0-8 ~]$ sudo mkdir cloudinstitution
[ec2-user@ip-10-0-0-8 ~]$
```

the mkfs.ext4 command is used to create an ext4 filesystem on a specified device

```
aws
         Services Q Search
                                                                        [Alt+S]
  EC2
 -xvda1
         202:1
                      8G
                          0 part /
 -xvda127 259:0
                    1M 0 part
                  0
 -xvda128 259:1
                     10M 0 part /boot/efi
                 0 10G 0 disk
         202:80
kvdf
[ec2-user@ip-10-0-0-8 ~]$ df -h
               Size Used Avail Use% Mounted on
Filesystem
devtmpfs
               4.0M
                       0 4.0M
                                 0% /dev
               475M
                        0 475M
                                  0% /dev/shm
tmpfs
tmpfs
                                  2% /run
               190M 2.9M
                           188M
/dev/xvda1
               8.0G 1.6G
                           6.5G 20% /
               475M
                       0
                           475M
                                 0% /tmp
tmpfs
/dev/xvda128
                10M 1.3M 8.7M 13% /boot/efi
tmpfs
                95м
                        0
                           95M
                                 0% /run/user/1000
[ec2-user@ip-10-0-0-8 ~]$ sudo mkdir cloudinstitution
[ec2-user@ip-10-0-0-8 ~]$ sudo mkfs.ext4 /dev/xvdf
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 2621440 4k blocks and 655360 inodes
Filesystem UUID: d20804c1-6baa-4566-b4d5-a30b59d58bd4
Superblock backups stored on blocks:
       32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632
Allocating group tables: done
Writing inode tables: done
Creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done
[ec2-user@ip-10-0-0-8 ~]$
```



Now mount the Volume to the directory using sudo mount /dev/xvdf <dir_name>/ command

```
Services
                                                                         [Alt+S]
                    Q Search
  EC2
  xvda127 259:0
                      1M 0 part
                   0
                  0 10M 0 part /boot/efi
 -xvda128 259:1
xvdf
          202:80
                  0 10G 0 disk
[ec2-user@ip-10-0-0-8 ~]$ df -h
                     Used Avail Use% Mounted on
Filesystem
                Size
devtmpfs
                4.0M
                         0
                           4.0M
                                   0% /dev
tmpfs
                475M
                         0
                           475м
                                   0% /dev/shm
mpfs
                     2.9M
                                   2% /run
                190M
                            188M
                     1.6G
/dev/xvda1
                8.0G
                           6.5G
                                  20% /
tmpfs
                475M
                         0
                           475M
                                  0% /tmp
                           8.7м
95м
/dev/xvda128
                 10M
                                  13% /boot/efi
                      1.3M
                 95м
                        0
                                   0% /run/user/1000
tmpfs
[ec2-user@ip-10-0-0-8 ~]$ sudo mkdir cloudinstitution
[ec2-user@ip-10-0-0-8 ~]$ sudo mkfs.ext4 /dev/xvdf
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 2621440 4k blocks and 655360 inodes
Filesystem UUID: d20804c1-6baa-4566-b4d5-a30b59d58bd4
Superblock backups stored on blocks:
        32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632
Allocating group tables: done
Writing inode tables: done
Creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done
[ec2-user@ip-10-0-0-8 ~]$ sudo mount /dev/xvdf cloudinstitution/
[ec2-user@ip-10-0-0-8 ~]$
```

