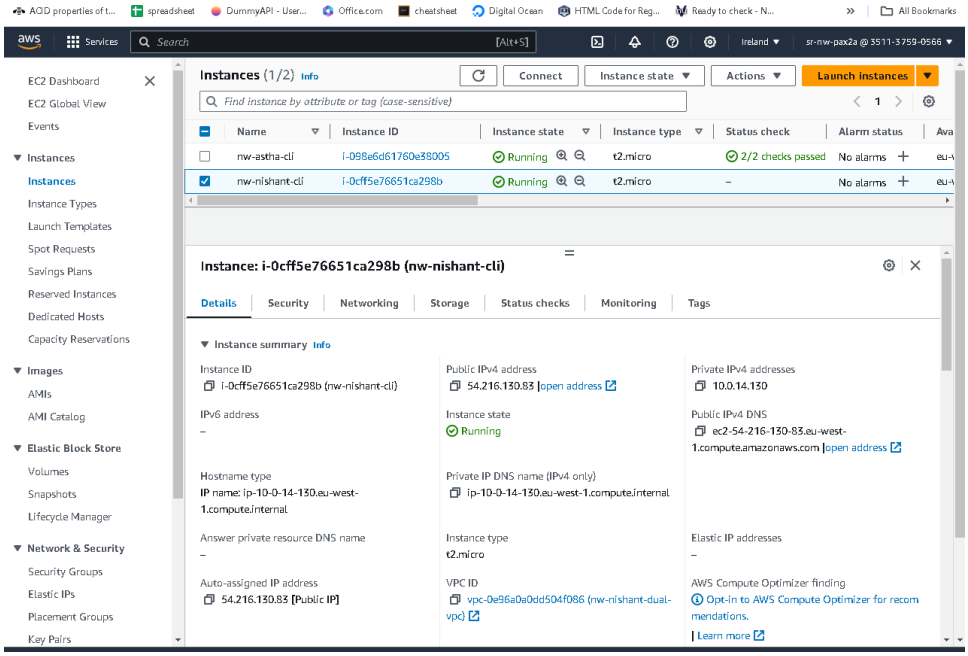
AWS assignment 2

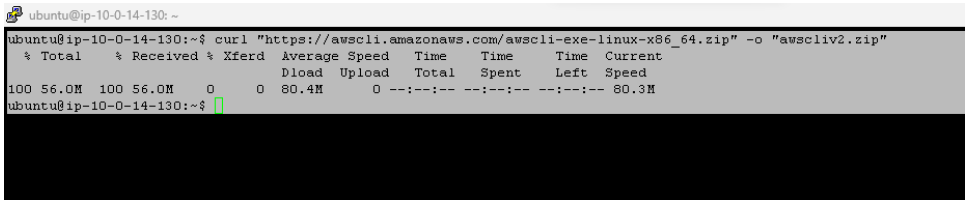
Create an EC2 instance on AWS.
Connect with the instance. Set hostnmae as nw-yourname-cli
Install AWS CLI and configure the default settings.

- Create S3 bucket.
- Download a sample csv file in your instance.
- Copy file from instance to S3 using AWS CLI command. [Visit S3 bucket and verify the file is uploaded]
- Execute lsblk to check devices available
- Create an EBS volume
- Specifications of EBS (GP2, 11-19GB)
- Attach this EBS volume to your EC2 using AWS CLI command
- Fire lsblk to check whether it appears in devices list.
- Mount this external storage volume
- Copy some data to this volume
- Configure fstab for automatic mounting everytime the instance is stopped or restarted
- Exit CLI
- Stop the instance. Start after a min or two. Verify that your device is mounted again by visiting the mount folder.

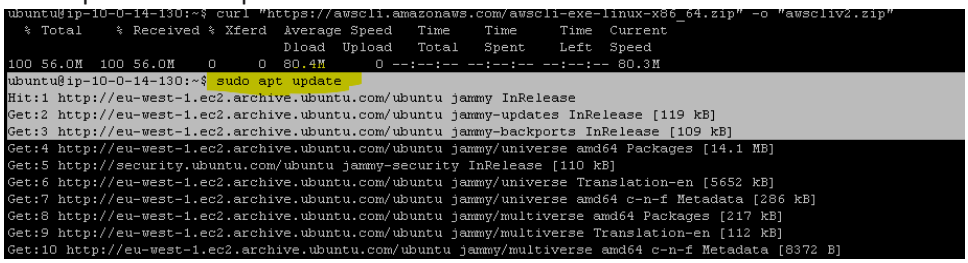


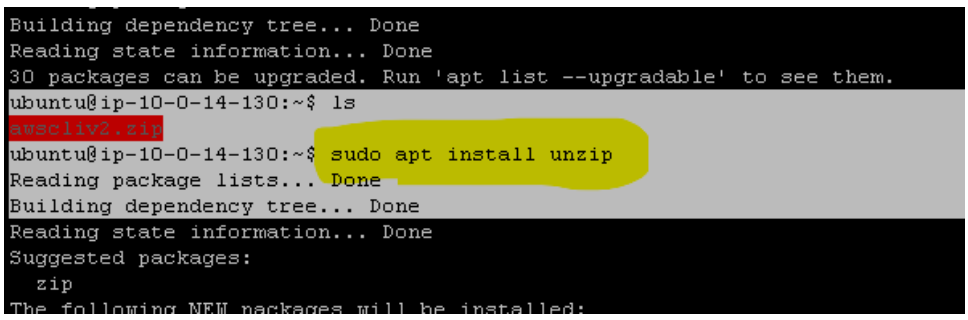
Open putty and install AWS CLI

curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"



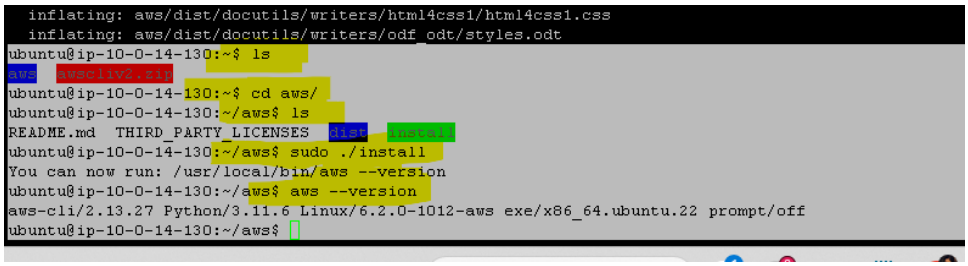
sudo apt update
sudo apt install unzip





unzip awscliv2.zip
ls

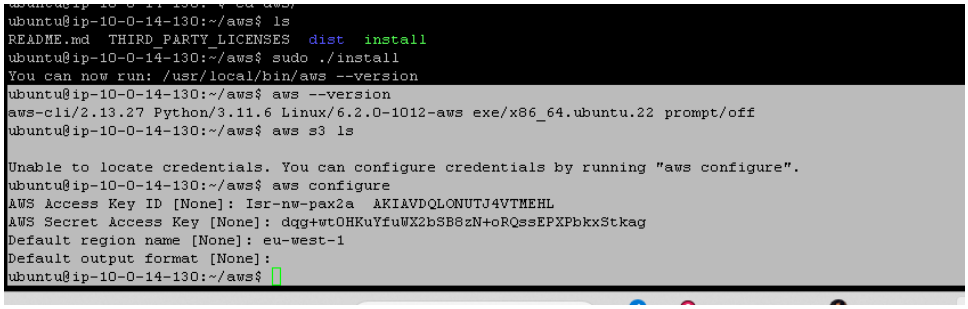
cd aws/
ls
sudo ./install
aws –version



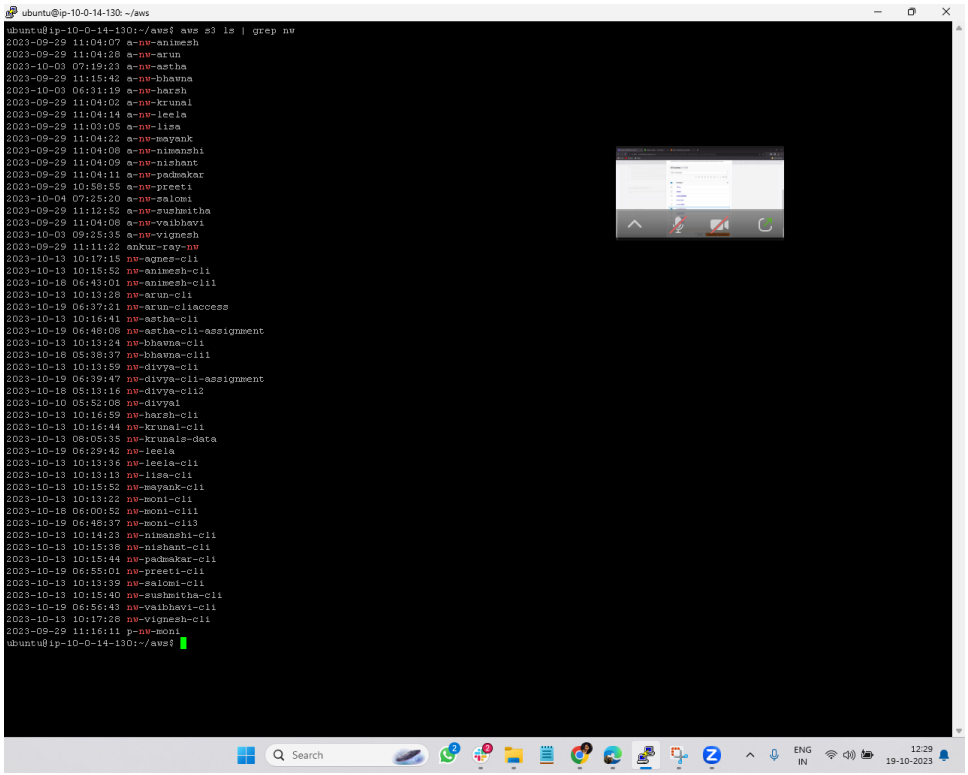
Aws s3 ls

AWS configure

Isr-nw-pax2a AKIAVDQLONUTJ4VTMEHL dqg+wt0HKuYfuWX2bSB8zN+oRQssEPXPbkxStkag



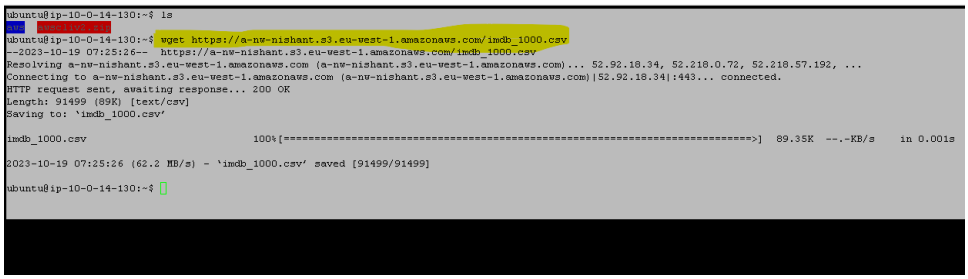
aws s3 ls | grep nw



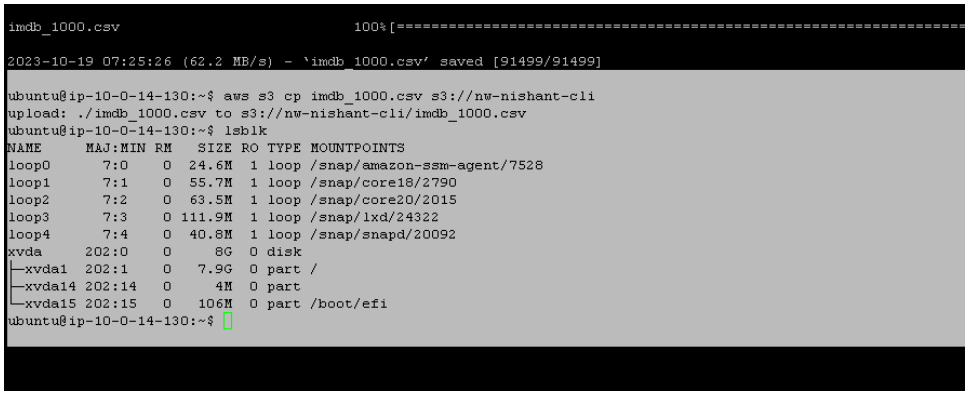
While creating new bucket getting error of created to many bucket

aws ec2 describe-instances

File uploaded in cli bucket



aws s3 cp imdb_1000.csv s3://nw-nishant-cli

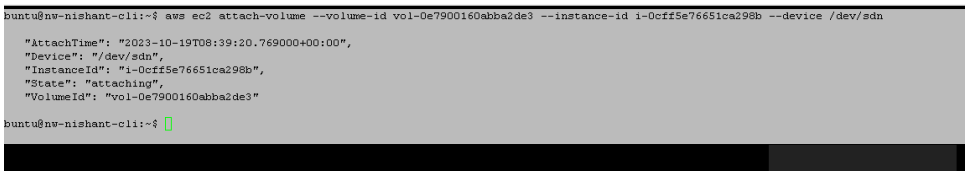


aws ec2 create-volume --availability-zone eu-west-1a --size 19 --volume-type gp2

Check EC2-Volumes

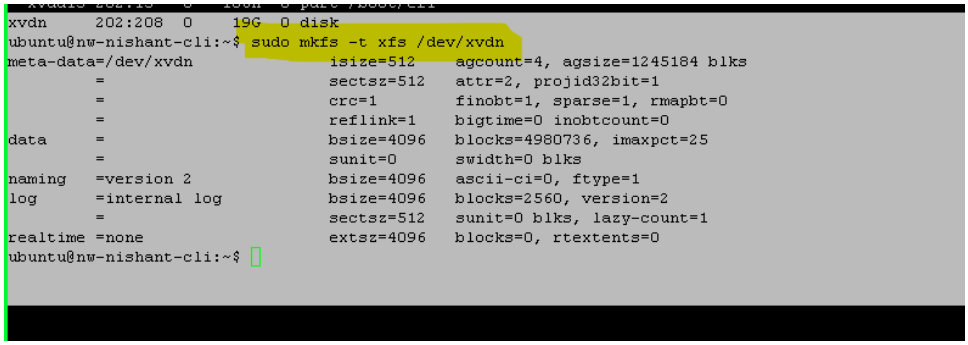
Attach volume from putty

aws ec2 attach-volume --volume-id vol-0e7900160abba2de3 --instance-id i-0cff5e76651ca298b --device /dev/sdn



Lsblk

sudo mkfs -t xfs /dev/xvdn



sudo file -s /dev/xvdn

ls /

sudo mkdir /export

sudo mount /dev/xvdn /export

lsblk

```
ubuntu@nw-nishant-cli:~$ sudo file -s /dev/xvdn
/dev/xvdn: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
ubuntu@nw-nishant-cli:~$ ls
aws  awscliv2.zip  imdb_1000.csv
ubuntu@nw-nishant-cli:~$ ls /
bin  boot  dev  etc  home  lib  lib32  lib64  libx32  lost+found  media  mnt  opt  proc  root  run  sbin  snap  srv  sys  tmp  usr  var
ubuntu@nw-nishant-cli:~$ sudo mkdir /export
ubuntu@nw-nishant-cli:~$ sudo mount /dev/xvdn /export
ubuntu@nw-nishant-cli:~$ lsblk
NAME     MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
loop0      7:0    0  24.6M  1 loop /snap/amazon-ssm-agent/7528
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
xvda     202:0    0    15G  0 disk
├─xvda1  202:1    0   7.9G  0 part /
├─xvda14 202:14   0     4M  0 part
└─xvda15 202:15   0   106M  0 part /boot/efi
xvdn     202:208  0    19G  0 disk /export
ubuntu@nw-nishant-cli:~$
```

Add files and export

```
xvdn     202:208  0    19G  0 disk /export
ubuntu@nw-nishant-cli:~$ touch nishant.txt data.csv
ubuntu@nw-nishant-cli:~$ wget https://www.alamy.com/stock-photo-natwest-bank-westfield-shopping-centre-stratford-london-78748345.html
--2023-10-19 09:07:15--  https://www.alamy.com/stock-photo-natwest-bank-westfield-shopping-centre-stratford-london-78748345.html
Resolving www.alamy.com (www.alamy.com)... 34.241.4.248, 52.208.36.153, 63.34.121.12
Connecting to www.alamy.com (www.alamy.com)|34.241.4.248|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 169713 (166K) [text/html]
Saving to: 'stock-photo-natwest-bank-westfield-shopping-centre-stratford-london-78748345.html'

stock-photo-natwest-bank-westfield-shop 100%[=========================================================================>] 165.74K  --.-KB/s    in 0.003s

2023-10-19 09:07:15 (61.3 MB/s) - 'stock-photo-natwest-bank-westfield-shopping-centre-stratford-london-78748345.html' saved [169713/169713]

ubuntu@nw-nishant-cli:~$ ls
aws  awscliv2.zip  data.csv  imdb_1000.csv  nishant.txt  stock-photo-natwest-bank-westfield-shopping-centre-stratford-london-78748345.html
ubuntu@nw-nishant-cli:~$ sudo cp * /export/
cp: -r not specified; omitting directory 'aws'
ubuntu@nw-nishant-cli:~$ sudo cp -r * /export/
ubuntu@nw-nishant-cli:~$ cd /export/
ubuntu@nw-nishant-cli:/export$ ls
aws  awscliv2.zip  data.csv  imdb_1000.csv  nishant.txt  stock-photo-natwest-bank-westfield-shopping-centre-stratford-london-78748345.html
ubuntu@nw-nishant-cli:/export$
```

cd

Lsblk –f

```
ubuntu@nw-nishant-cli:~$ lsblk -f
NAME     FSTYPE FSVER LABEL           UUID                                 FSAVAIL FSUSE% MOUNTPOINTS
loop0                                                                          0   100% /snap/amazon-ssm-agent/7528
loop1                                                                          0   100% /snap/core18/2790
loop2                                                                          0   100% /snap/core20/2015
loop3                                                                          0   100% /snap/lxd/24322
loop4                                                                          0   100% /snap/snapd/20092
xvda
├─xvda1  ext4   1.0   cloudimg-rootfs 4f575094-453e-450d-aeed-215d8cbcbf58    5.3G    29% /
├─xvda14
└─xvda15 vfat   FAT32 UEFI           60A8-A611                              98.3M     6% /boot/efi
xvdn     xfs          b2413de8-b1f1-416e-9859-2b7ec155a899   18.6G     2% /export
ubuntu@nw-nishant-cli:~$
```

UUID=b2413de8-b1f1-416e-9859-2b7ec155a899 /export xfs defaults,nofail 0 2

Cat /etc/fstab

```
ubuntu@nw-nishant-cli:~$ cat /etc/fstab
LABEL=cloudimg-rootfs   /        ext4   discard,errors=remount-ro       0 1
LABEL=UEFI      /boot/efi       vfat    umask=0077      0 1
ubuntu@nw-nishant-cli:~$
```

Take back up of file

Sudo cp /etc/fstab .

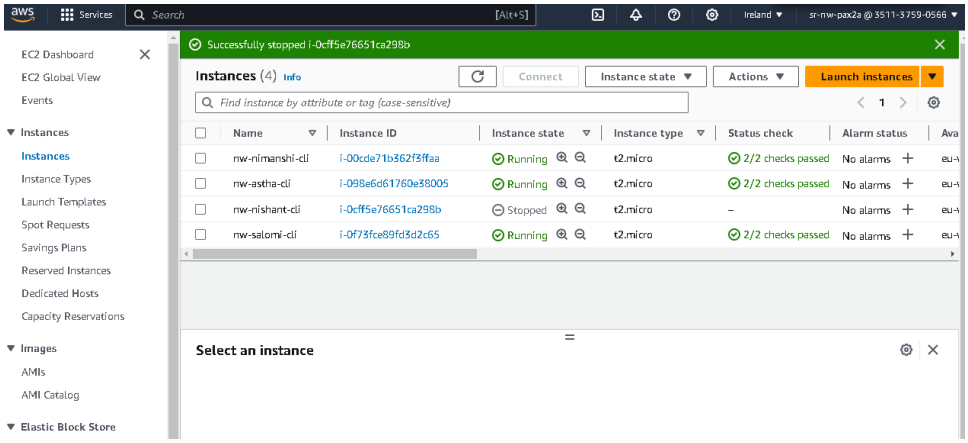
Now edit the file

Sudo nano /etc/fstab

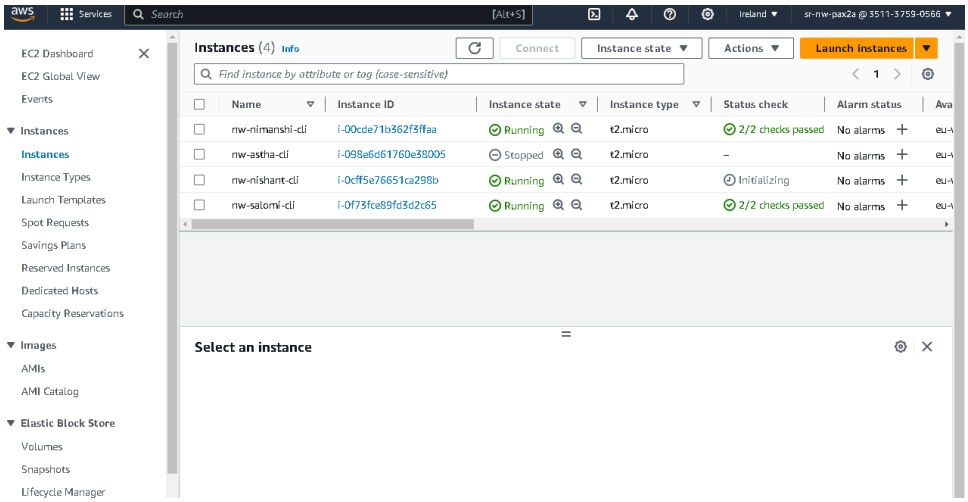
```
ubuntu@nw-nishant-cli:~$ sudo /etc/fstab .
sudo: /etc/fstab: command not found
ubuntu@nw-nishant-cli:~$ sudo cp /etc/fstab .
ubuntu@nw-nishant-cli:~$ ls
key.pem  [redacted]  data.csv  fstab  imdb_1000.csv  nishant.txt  stock-photo-natwest-bank-westfield-shopping-centre-stratford-london-78748345.html
ubuntu@nw-nishant-cli:~$ sudo nano /etc/fstab
ubuntu@nw-nishant-cli:~$ sudo umount /export/
ubuntu@nw-nishant-cli:~$ lsblk
NAME      MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
loop0       7:0    0  24.6M  1 loop /snap/amazon-ssm-agent/7528
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
xvda      202:0    0    15G  0 disk
├─xvda1   202:1    0   7.9G  0 part /
├─xvda14  202:14   0     4M  0 part
└─xvda15  202:15   0   106M  0 part /boot/efi
xvdn      202:208  0    19G  0 disk
ubuntu@nw-nishant-cli:~$ sudo mount /export/
ubuntu@nw-nishant-cli:~$ lsblk
NAME      MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
loop0       7:0    0  24.6M  1 loop /snap/amazon-ssm-agent/7528
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
xvda      202:0    0    15G  0 disk
├─xvda1   202:1    0   7.9G  0 part /
├─xvda14  202:14   0     4M  0 part
└─xvda15  202:15   0   106M  0 part /boot/efi
xvdn      202:208  0    19G  0 disk /export
ubuntu@nw-nishant-cli:~$
```

After that exit from putty

Stopped instances



Again run instance.and open putty

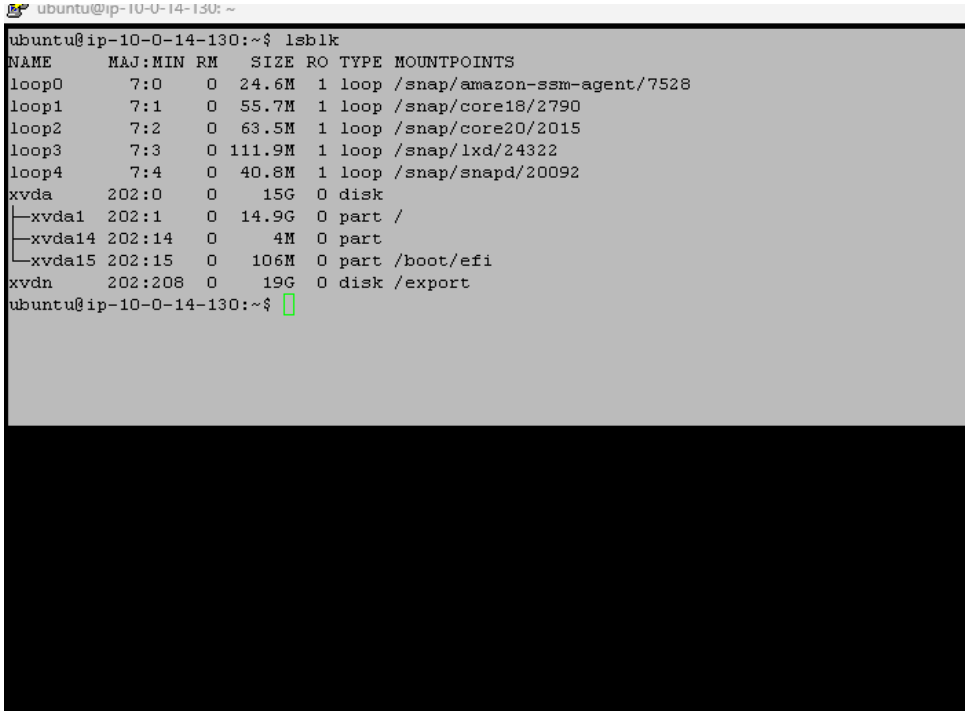


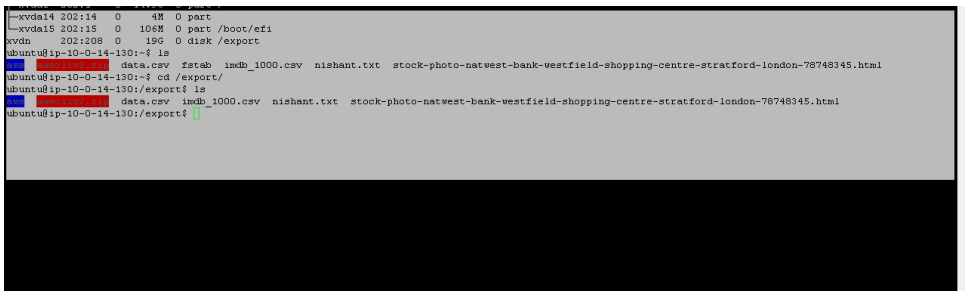
Open putty

Lsblk

Cd /export/

Ls


ubuntu@ip-10-0-14-130: ~
ubuntu@ip-10-0-14-130:~$ lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
loop0 7:0 0 24.6M 1 loop /snap/amazon-ssm-agent/7528
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
xvda 202:0 0 15G 0 disk
├─xvda1 202:1 0 14.9G 0 part /
├─xvda14 202:14 0 4M 0 part
└─xvda15 202:15 0 106M 0 part /boot/efi
xvdn 202:208 0 19G 0 disk /export
ubuntu@ip-10-0-14-130:~$


├─xvda14 202:14 0 4M 0 part
└─xvda15 202:15 0 106M 0 part /boot/efi
xvdn 202:208 0 19G 0 disk /export
ubuntu@ip-10-0-14-130:~$ ls
data.csv fstab imdb_1000.csv nishant.txt stock-photo-natwest-bank-westfield-shopping-centre-stratford-london-78748345.html
ubuntu@ip-10-0-14-130:~$ cd /export/
ubuntu@ip-10-0-14-130:/export$ ls
data.csv imdb_1000.csv nishant.txt stock-photo-natwest-bank-westfield-shopping-centre-stratford-london-78748345.html
ubuntu@ip-10-0-14-130:/export$