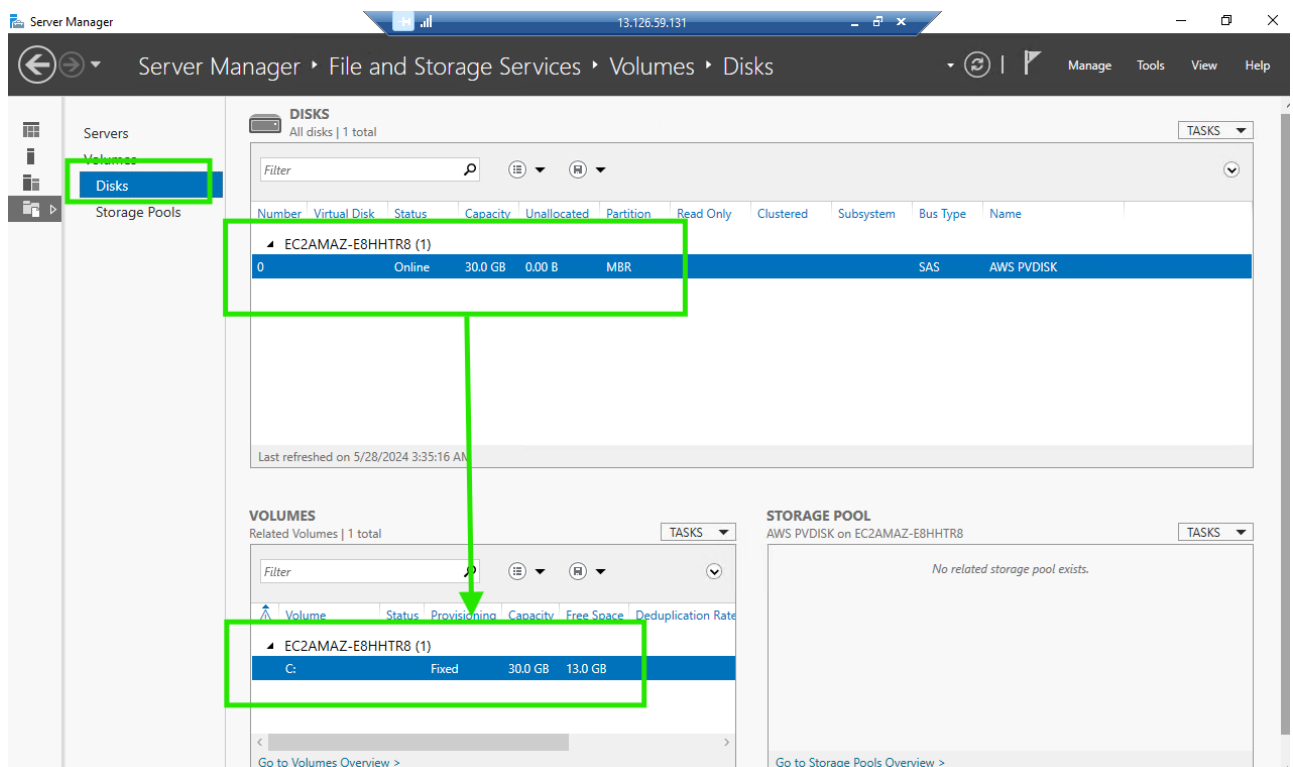
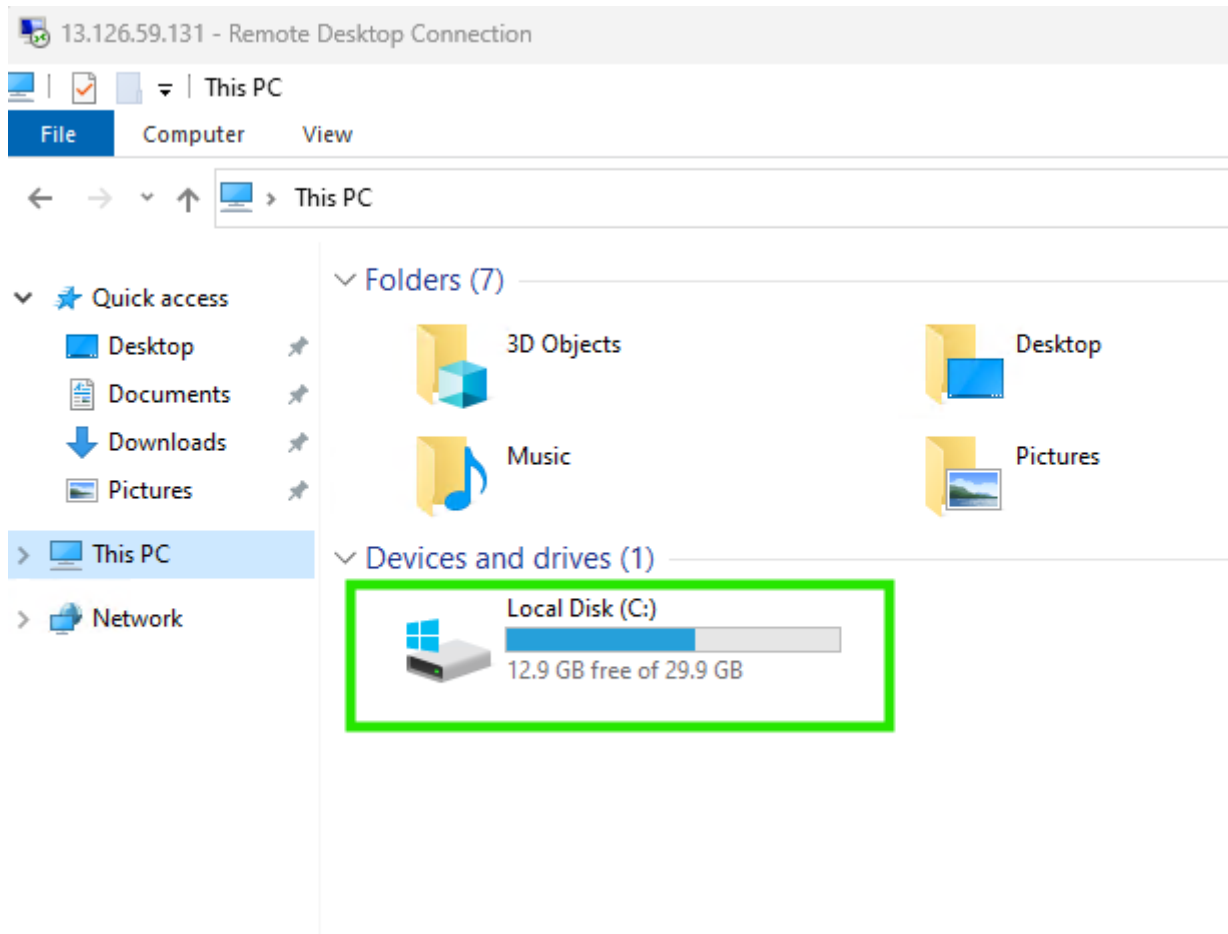


# AWS EC2 instance creation

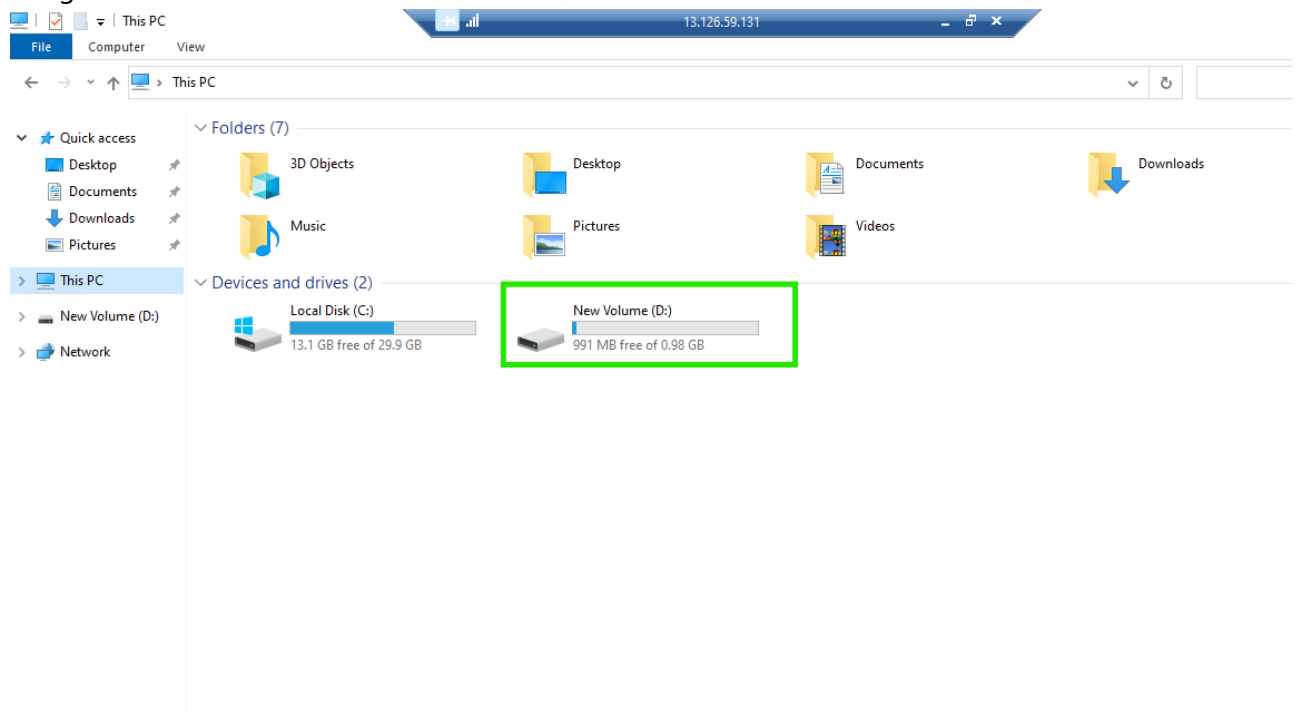
## Windows Server

- Create a windows server with one ebs volume



- Now lets try to add one more ebs volume i.e. disk to ec2 windows instance
- Now create a volume of size 1 GiB and attach it to the ec2 instance

- Bring the device online and create a new **D:\** volume



- Now let's increase the size of EBS Volume to 2 GB
- decreasing ebs volume sizes is not allowed

## Linux

- Create an ubuntu server with two ebs volumes
  - 8 GiB
  - 1 GiB
- ssh into ubuntu server and execute `sudo lsblk`

```
ubuntu@ip-172-31-38-49:~$ sudo lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0        7:0    0 25.2M  1 loop /snap/amazon-ssm-agent/7983
loop1        7:1    0 55.7M  1 loop /snap/core18/2812
loop2        7:2    0 38.7M  1 loop /snap/snapd/21465
xvda        202:0    0   8G   0 disk
├─xvda1      202:1    0    7G   0 part /
├─xvda14     202:14   0    4M   0 part
├─xvda15     202:15   0 106M   0 part /boot/efi
└─xvda16     259:0    0 913M   0 part /boot
xvdb        202:16   0    1G   0 disk
ubuntu@ip-172-31-38-49:~$
```

- Now lets add one more ebs volume to this ec2 instance (size 1 GiB)

```
ubuntu@ip-172-31-38-49:~$ sudo lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0        7:0      0 25.2M 1 loop /snap/amazon-ssm-agent/7983
loop1        7:1      0 55.7M 1 loop /snap/core18/2812
loop2        7:2      0 38.7M 1 loop /snap/snapd/21465
xvda         202:0     0   8G   0 disk
├─xvda1      202:1     0   7G   0 part /
├─xvda14     202:14    0    4M   0 part
├─xvda15     202:15    0 106M   0 part /boot/efi
└─xvda16     259:0     0 913M   0 part /boot
xvdb         202:16    0    1G   0 disk
xvdd         202:48    0    1G   0 disk
ubuntu@ip-172-31-38-49:~$
```

- Now lets increase disk size from 1 GiB to 2 GiB

```
ubuntu@ip-172-31-38-49:~$ sudo lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0        7:0      0 25.2M 1 loop /snap/amazon-ssm-agent/7983
loop1        7:1      0 55.7M 1 loop /snap/core18/2812
loop2        7:2      0 38.7M 1 loop /snap/snapd/21465
xvda         202:0     0   8G   0 disk
├─xvda1      202:1     0   7G   0 part /
├─xvda14     202:14    0    4M   0 part
├─xvda15     202:15    0 106M   0 part /boot/efi
└─xvda16     259:0     0 913M   0 part /boot
xvdb         202:16    0    1G   0 disk
xvdd         202:48    0    2G   0 disk
ubuntu@ip-172-31-38-49:~$
```

- Mount the disks to some folders

```
ubuntu@ip-172-31-38-49:~$ sudo df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root        6.8G  1.6G  5.2G  24% /
tmpfs            479M    0  479M   0% /dev/shm
tmpfs            192M  876K  191M   1% /run
tmpfs            5.0M    0   5.0M   0% /run/lock
/dev/xvda16      881M   76M  744M  10% /boot
/dev/xvda15      105M   6.1M   99M   6% /boot/efi
tmpfs            96M    12K   96M   1% /run/user/1000
/dev/xvdd        2.0G   24K  1.8G   1% /tools
/dev/xvdb        960M   51M  910M   6% /projects
ubuntu@ip-172-31-38-49:~$
```

- use fstab to persist mounts