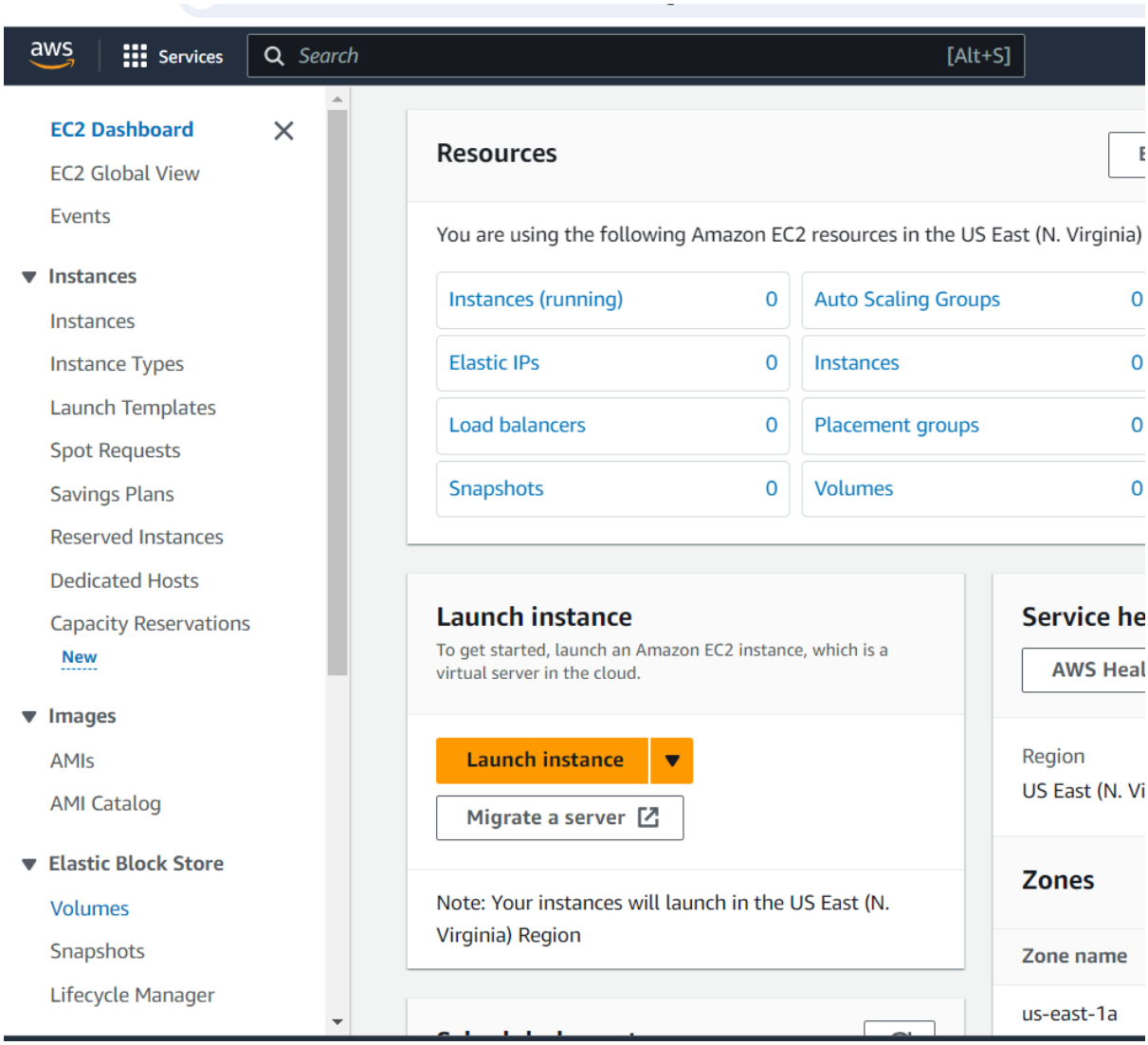
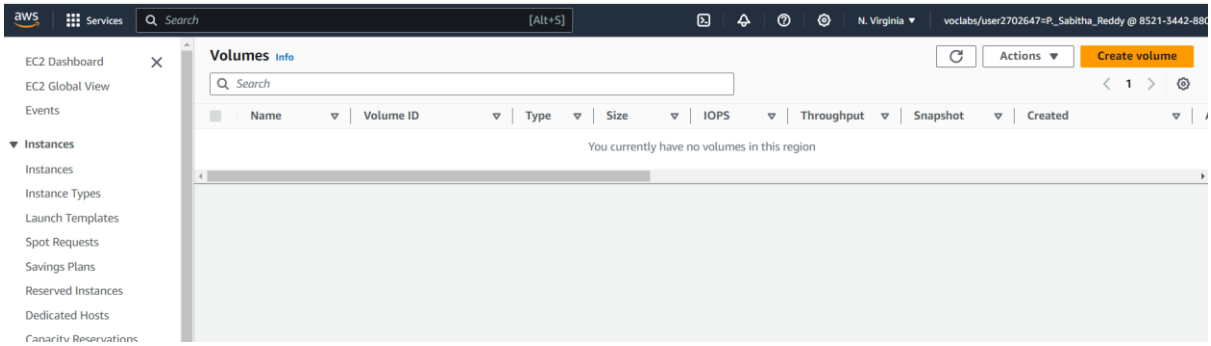
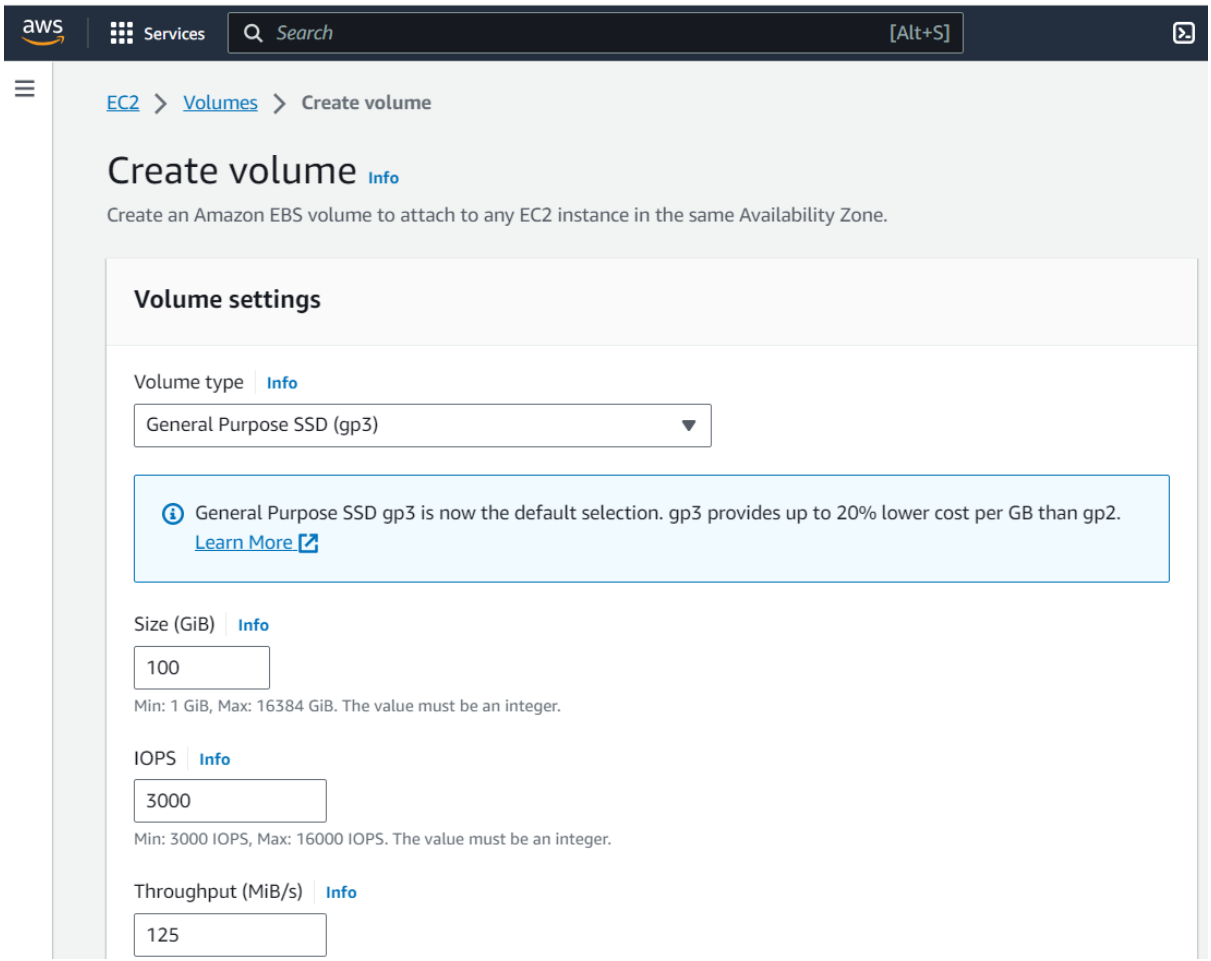
WEEK-5 Create and manage Elastic Block Store.

Go to Services→compute→EC2→ELASTIC BLOCK STORE→VOLUMES



Click on create volume

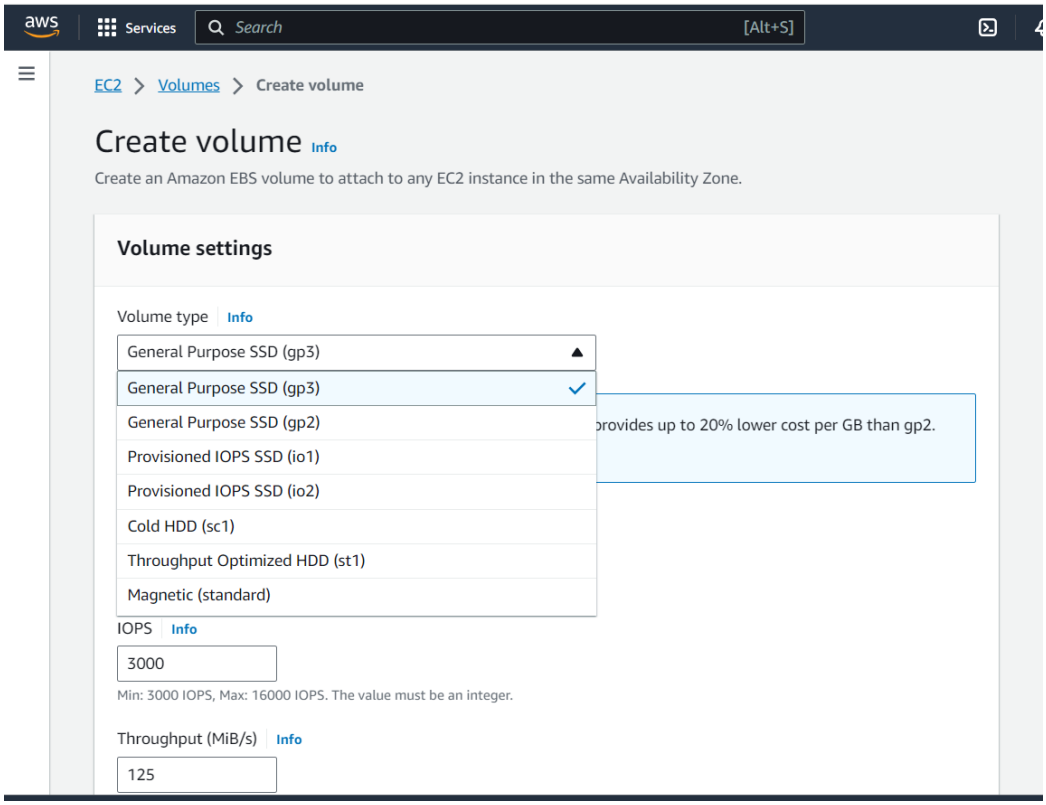


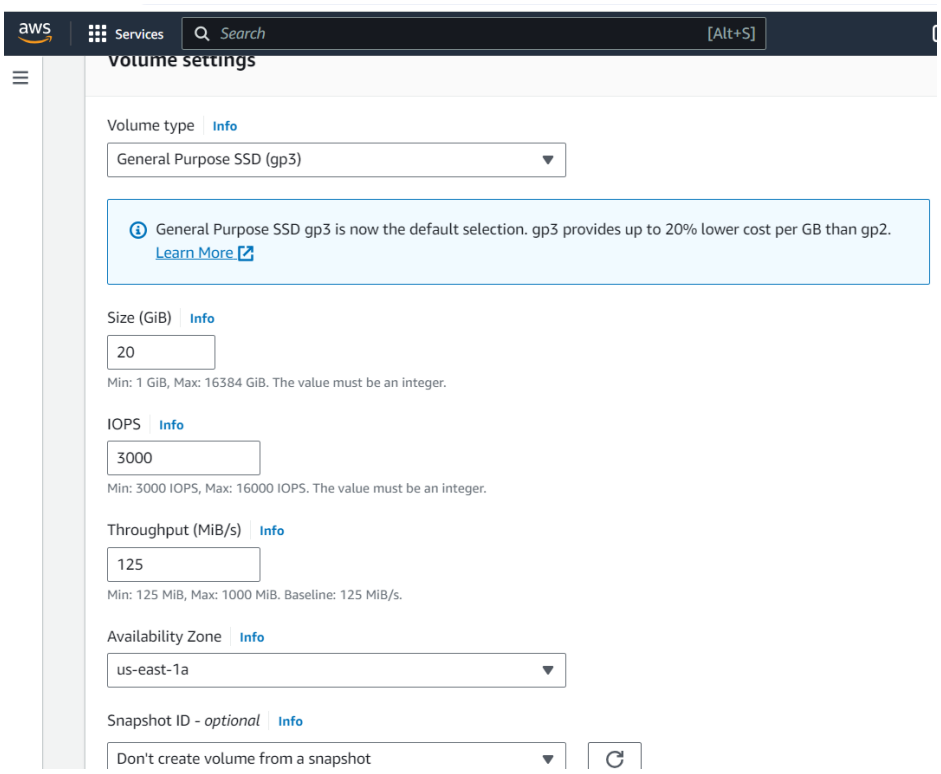


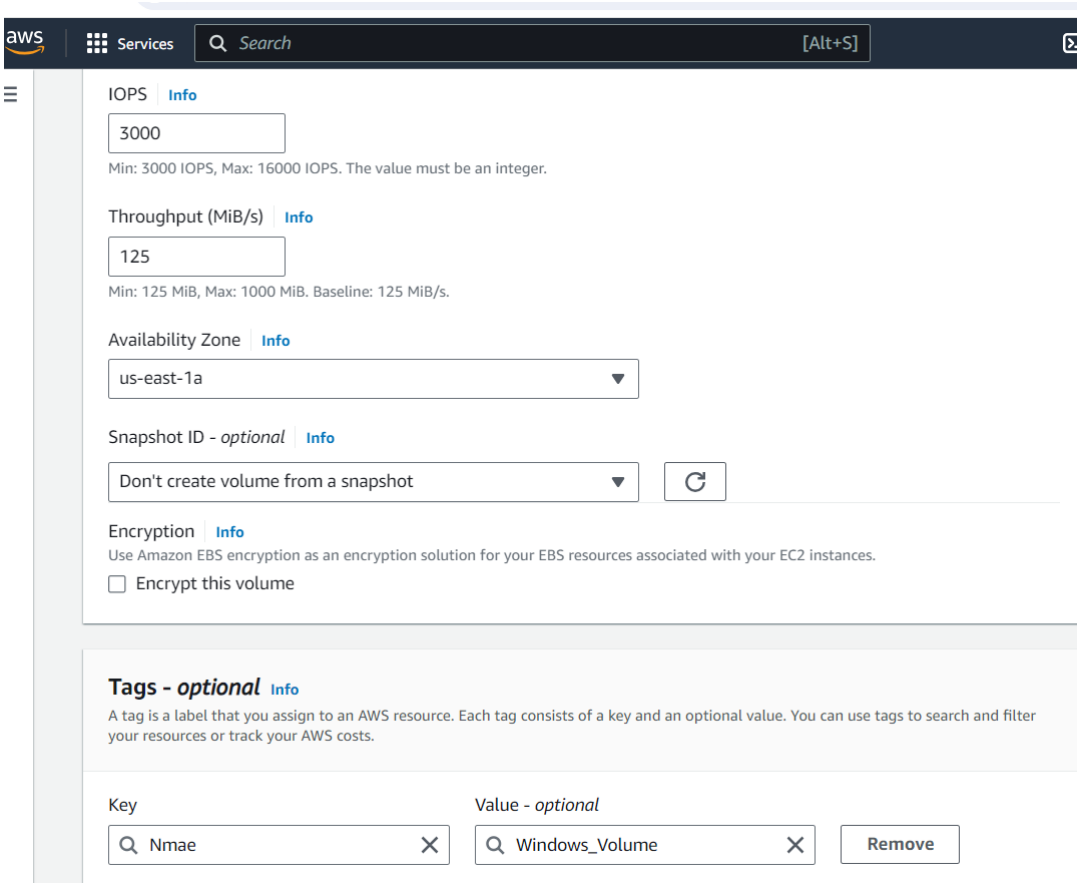
Select default settings as volume type :General Purpose SSD(solid state drives)(gp3),size:20gb,IOPS(Input/Output Operations Per Second):3000,Throughput(mb/s):125

Availability zone is same as where Instance was crated ,choose that availability zone only.

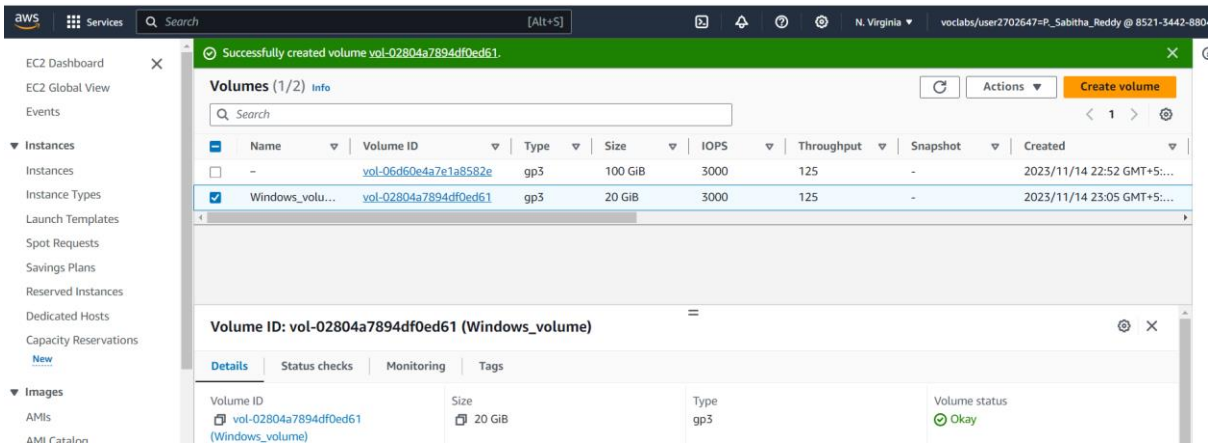
Click on create volume


aws
Services
Search
[Alt+S]
EC2 > Volumes > Create volume
Create volume Info
Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.
Volume settings
Volume type Info
General Purpose SSD (gp3)
General Purpose SSD (gp3)
General Purpose SSD (gp2)
Provisioned IOPS SSD (io1)
Provisioned IOPS SSD (io2)
Cold HDD (sc1)
Throughput Optimized HDD (st1)
Magnetic (standard)
rovides up to 20% lower cost per GB than gp2.
IOPS Info
3000
Min: 3000 IOPS, Max: 16000 IOPS. The value must be an integer.
Throughput (MiB/s) Info
125

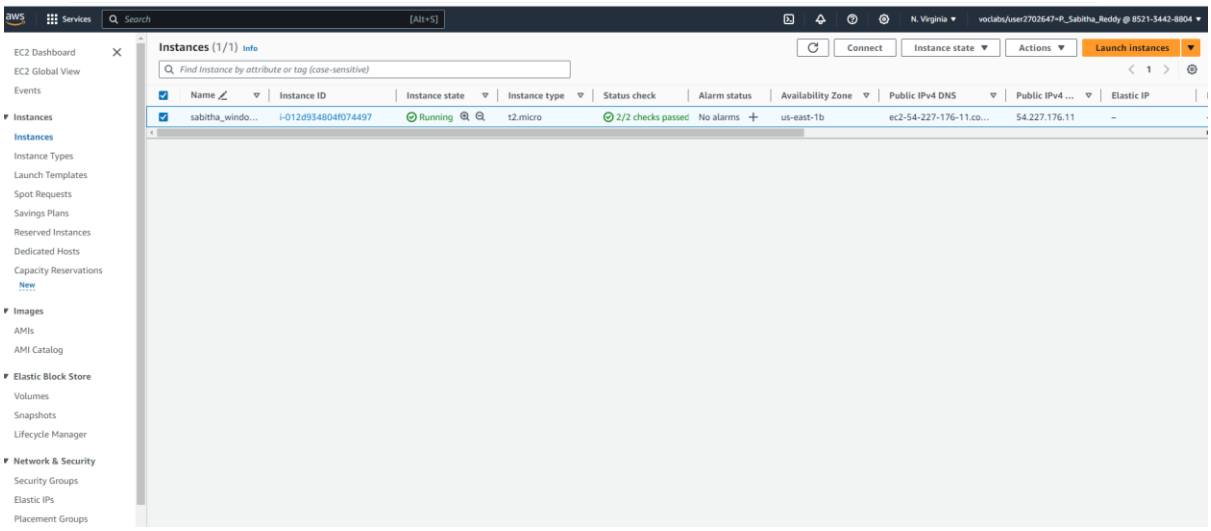

aws
Services
Search
[Alt+S]
Volume settings
Volume type Info
General Purpose SSD (gp3)
General Purpose SSD gp3 is now the default selection. gp3 provides up to 20% lower cost per GB than gp2.
Learn More
Size (GiB) Info
20
Min: 1 GiB, Max: 16384 GiB. The value must be an integer.
IOPS Info
3000
Min: 3000 IOPS, Max: 16000 IOPS. The value must be an integer.
Throughput (MiB/s) Info
125
Min: 125 MiB, Max: 1000 MiB. Baseline: 125 MiB/s.
Availability Zone Info
us-east-1a
Snapshot ID - optional Info
Don't create volume from a snapshot



Created successfully.



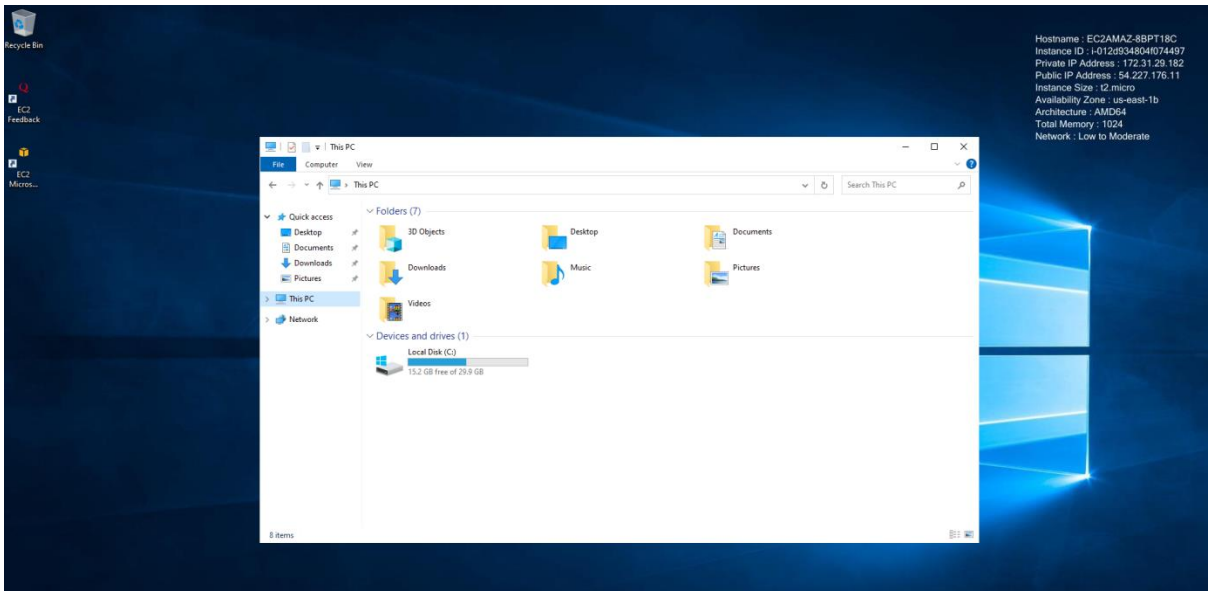
Launch the Windows.



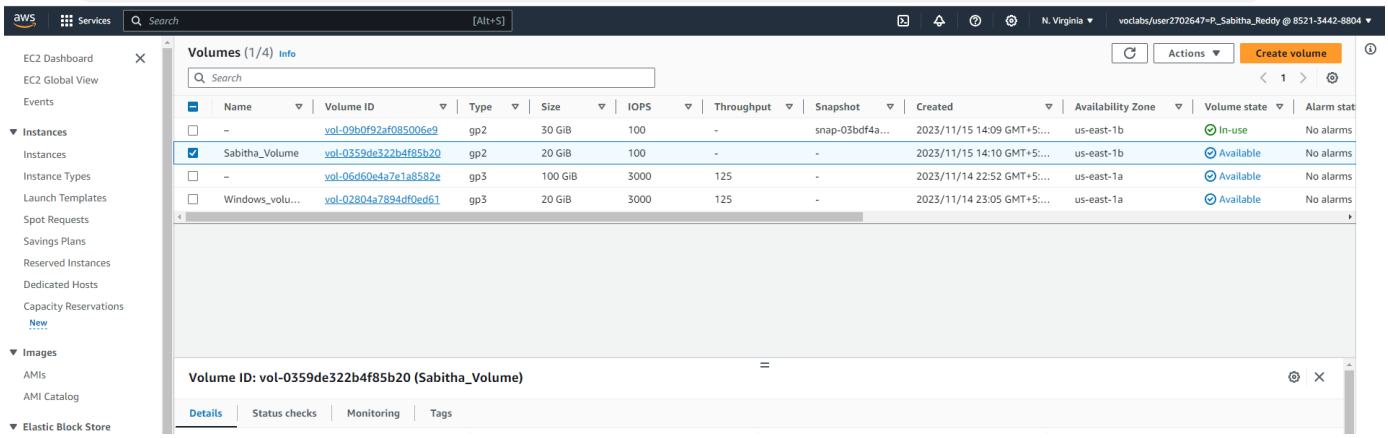
Instance and connect the windows instance.

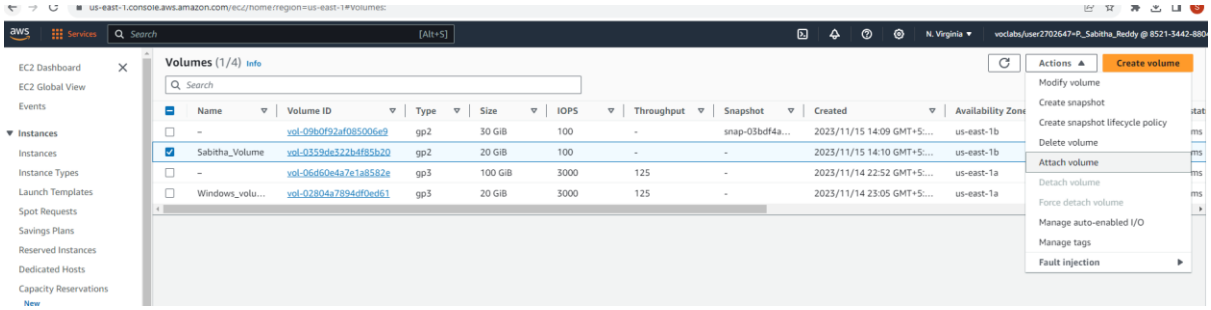
Open File Folder—> we can find only one driver :C with 29.9 GB

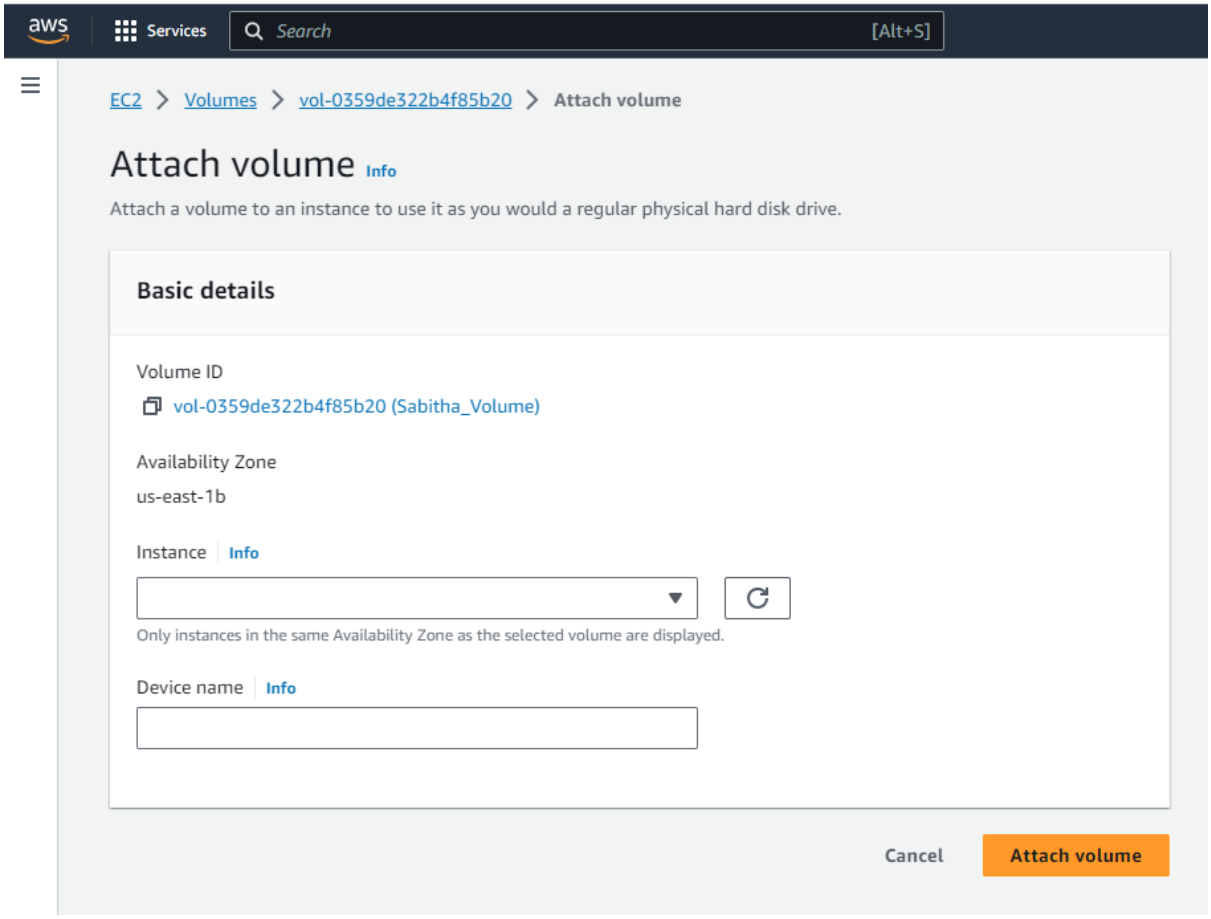
Attach the EDS volume to Windows instance.



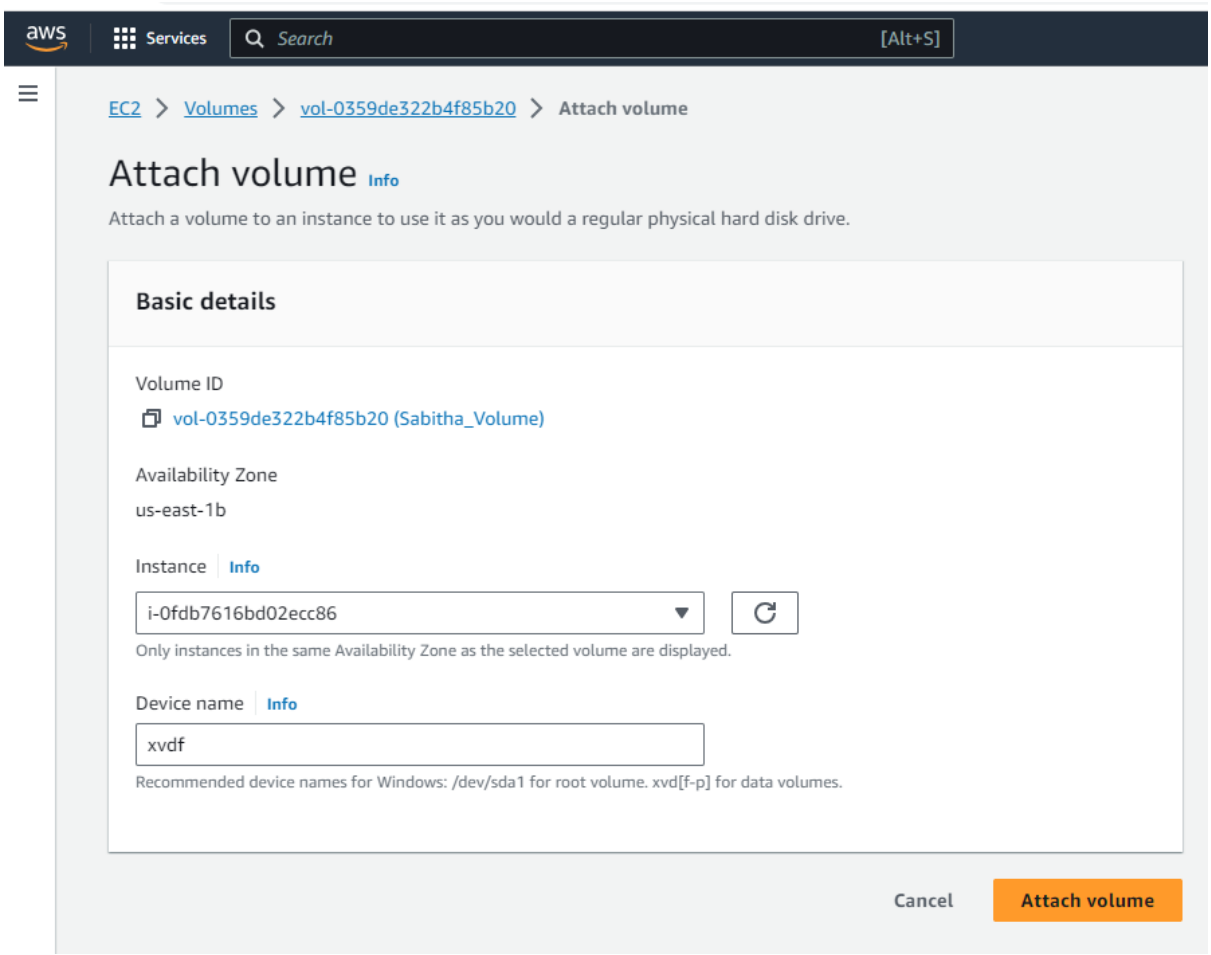
In Aws Management Console go to Instance→Volumes→click one volume name→actions→attach Volume



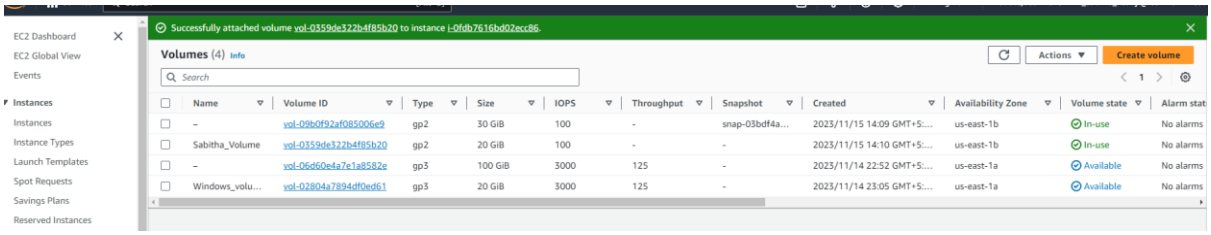




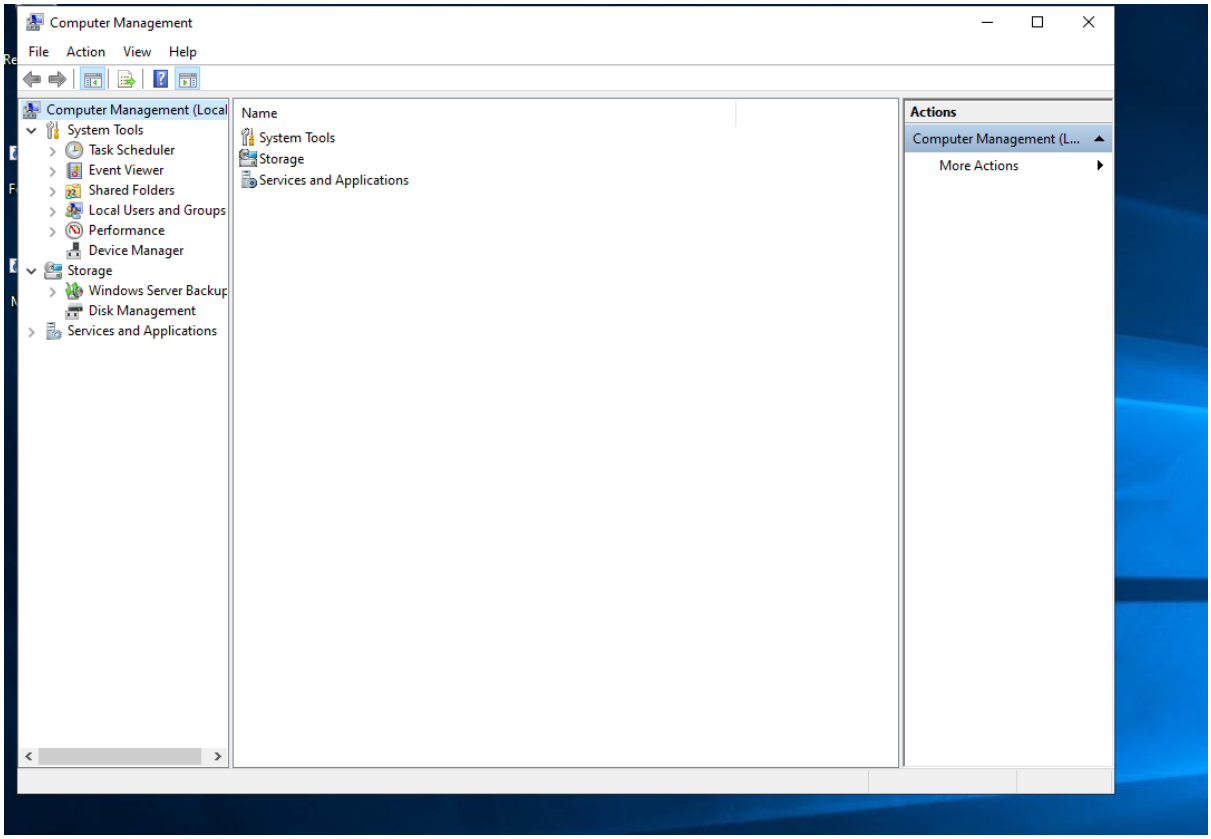
Select Instance from same Availability Zone and remember Device name &click on attach volume.



Now this volume state will be change to in-use from available state

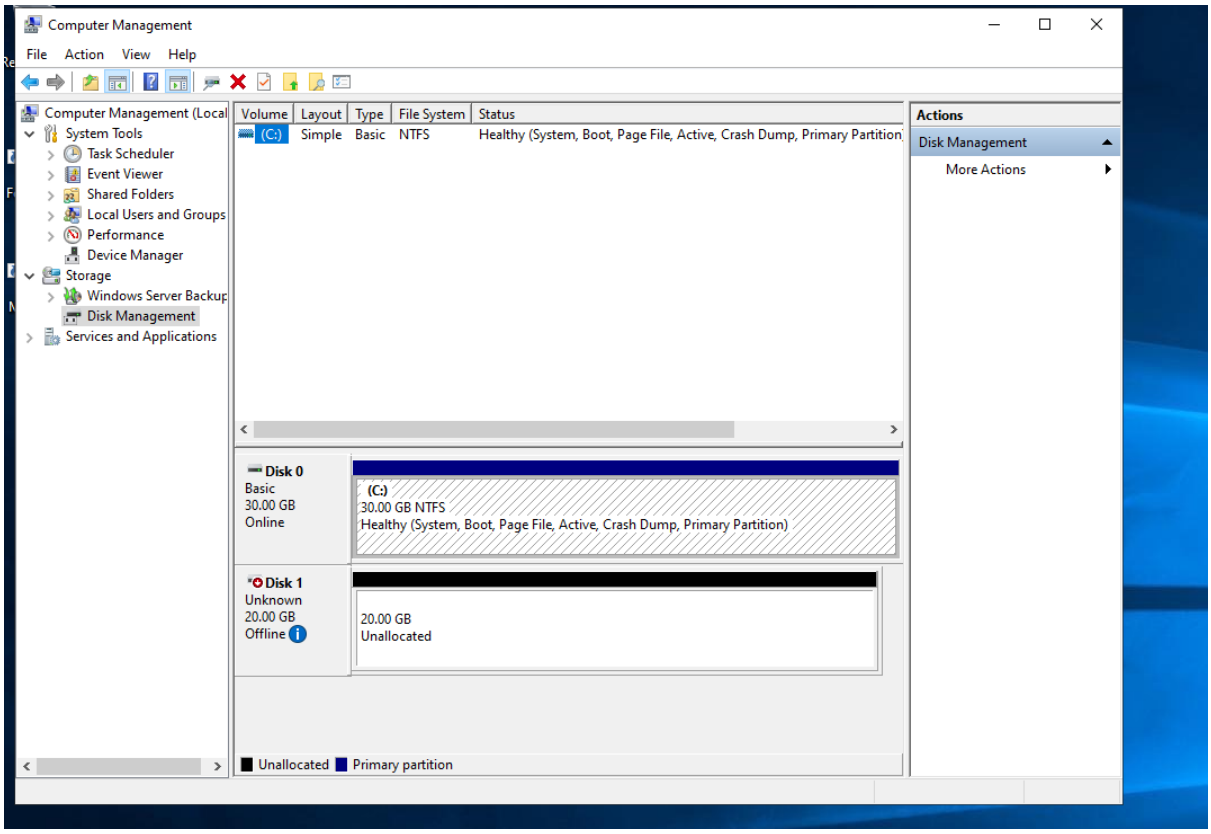


Open the windows instance→open search bar→ computer management



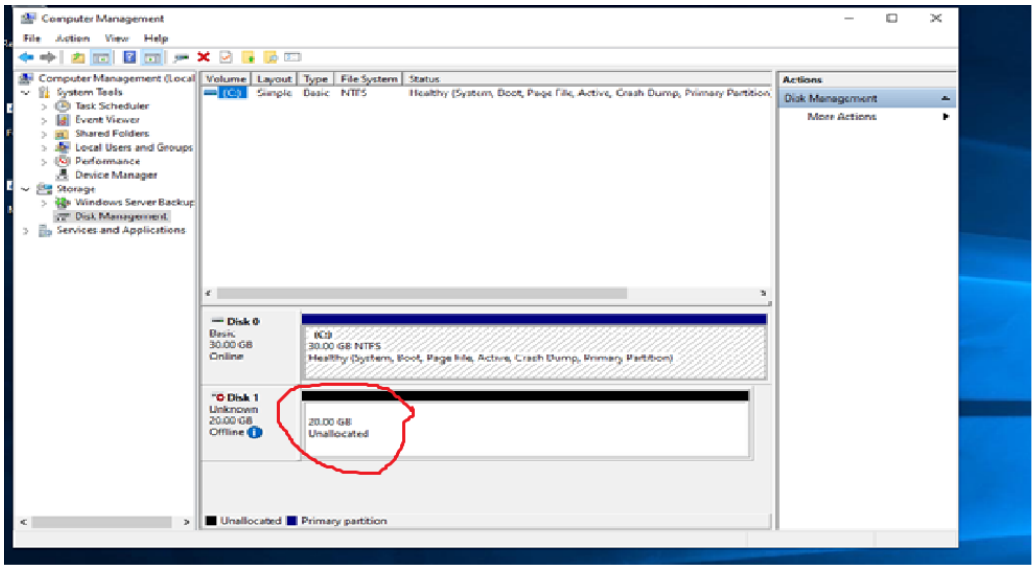
Click on storage →disk management→disk1 is unallocated

So right click on disk1→click on online

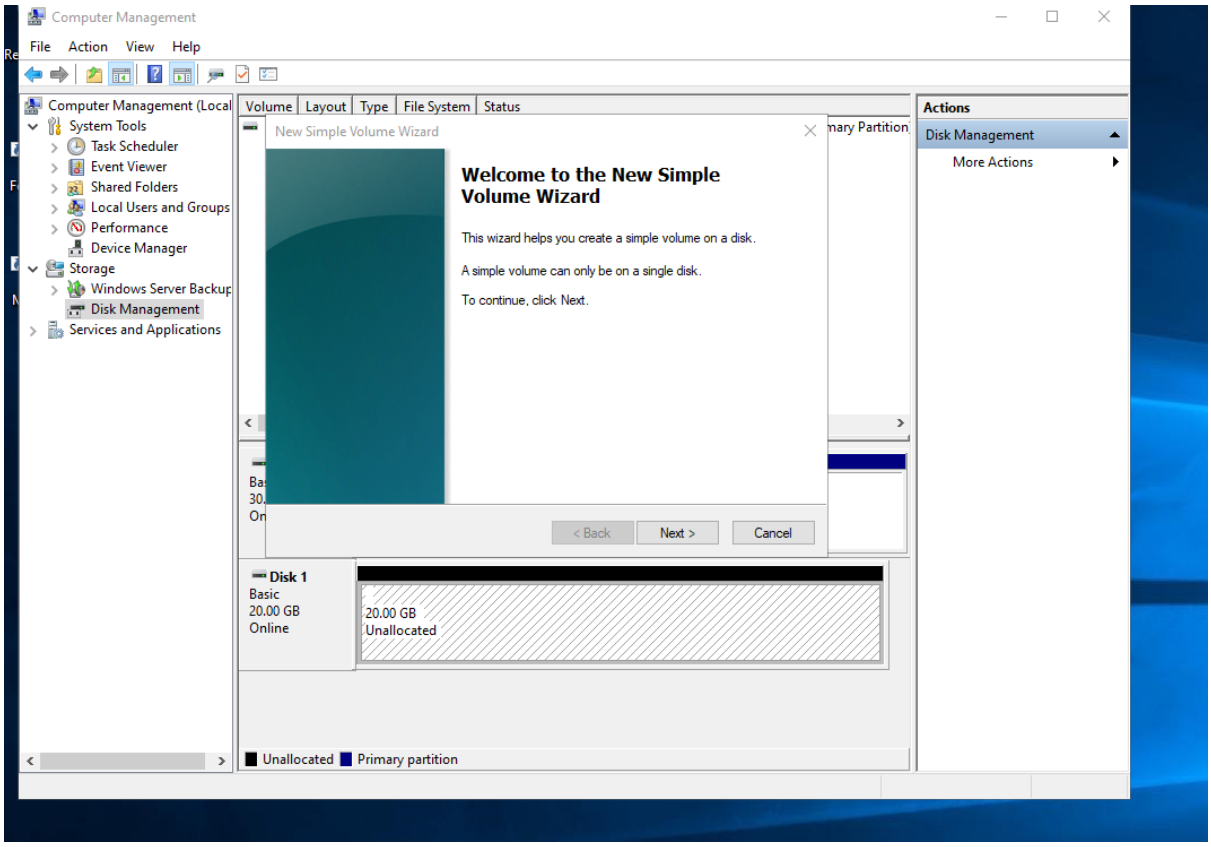


Disk will be change to offline to online

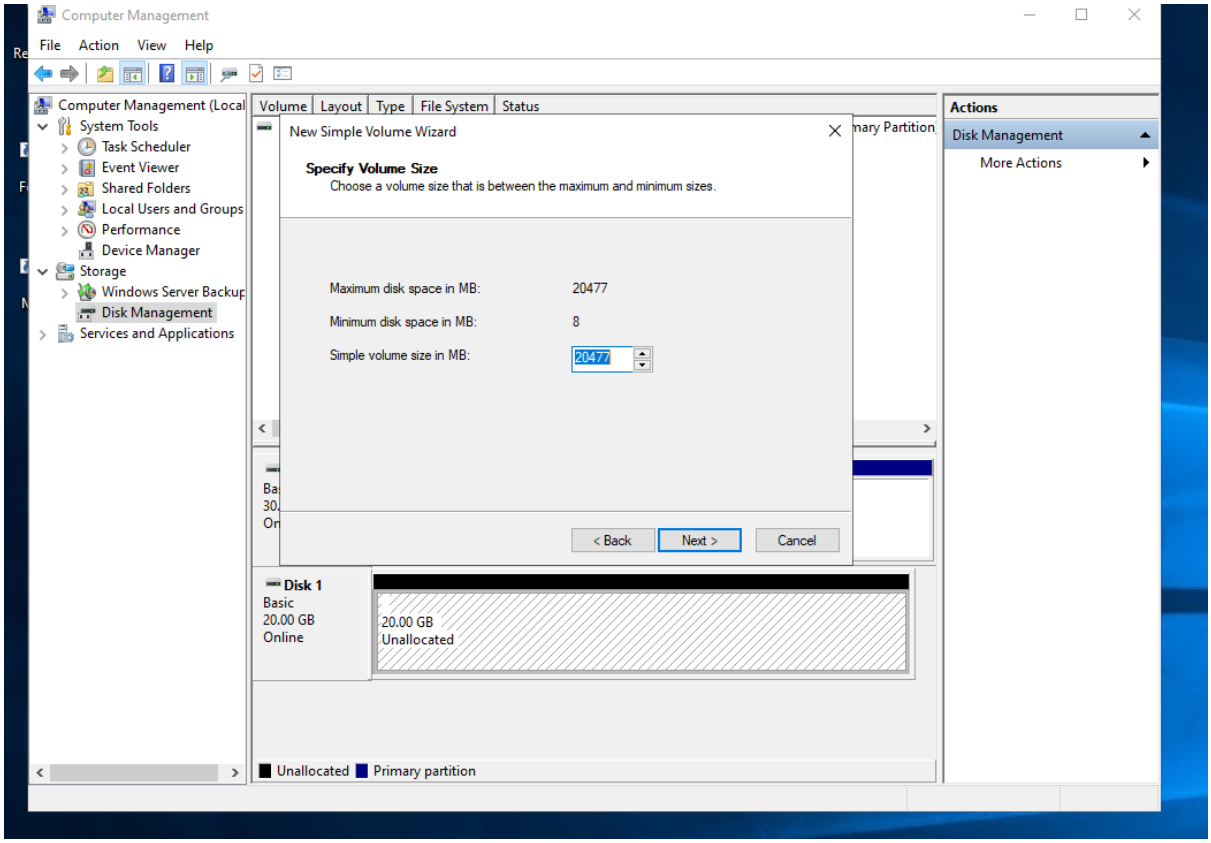
Click on the right click on memory→select new simple volume



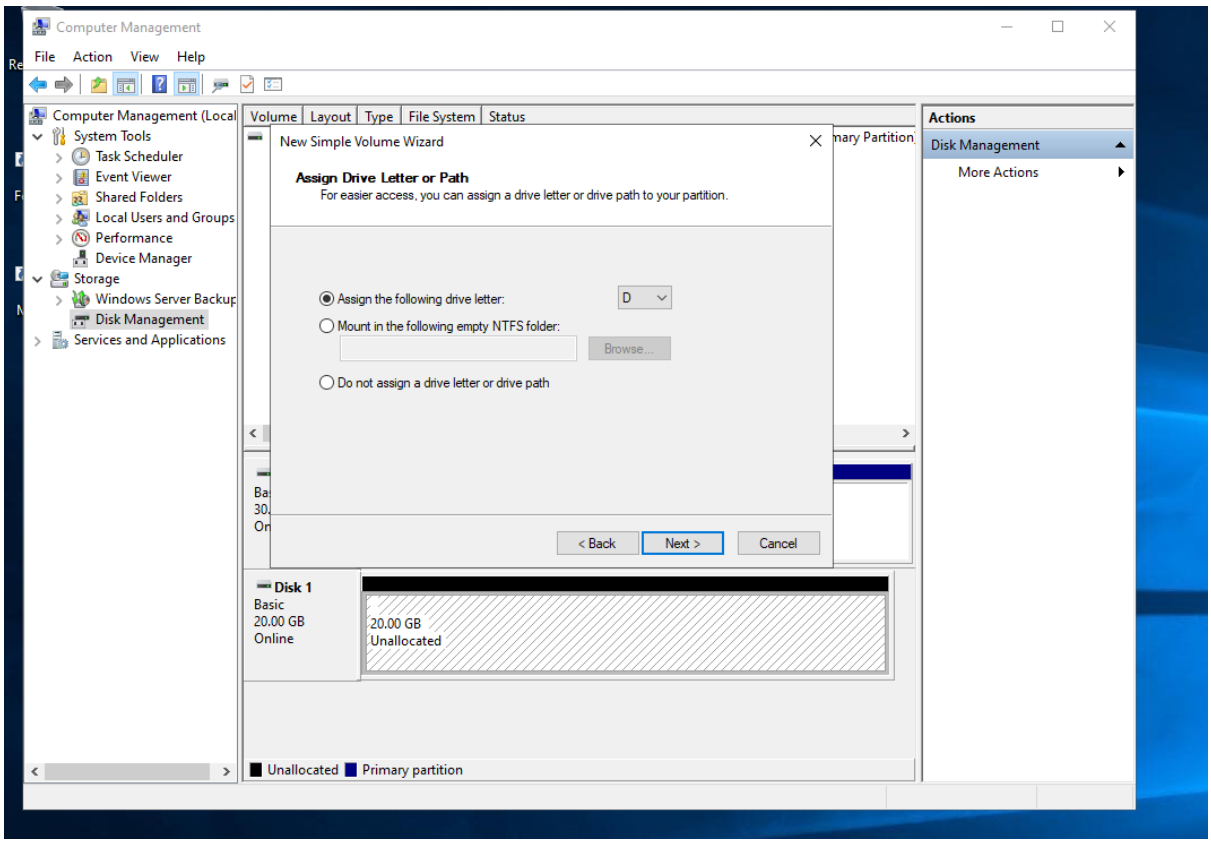
Click on next



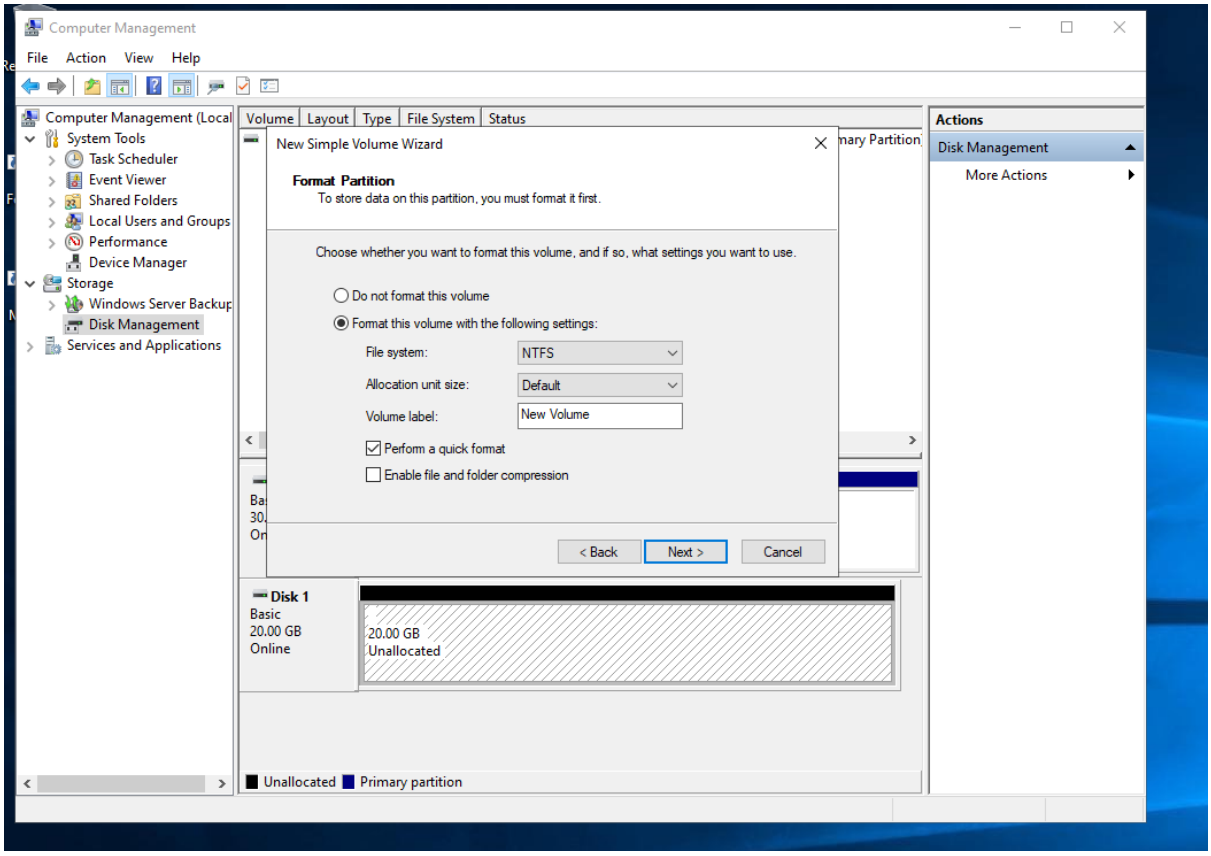
Click on next



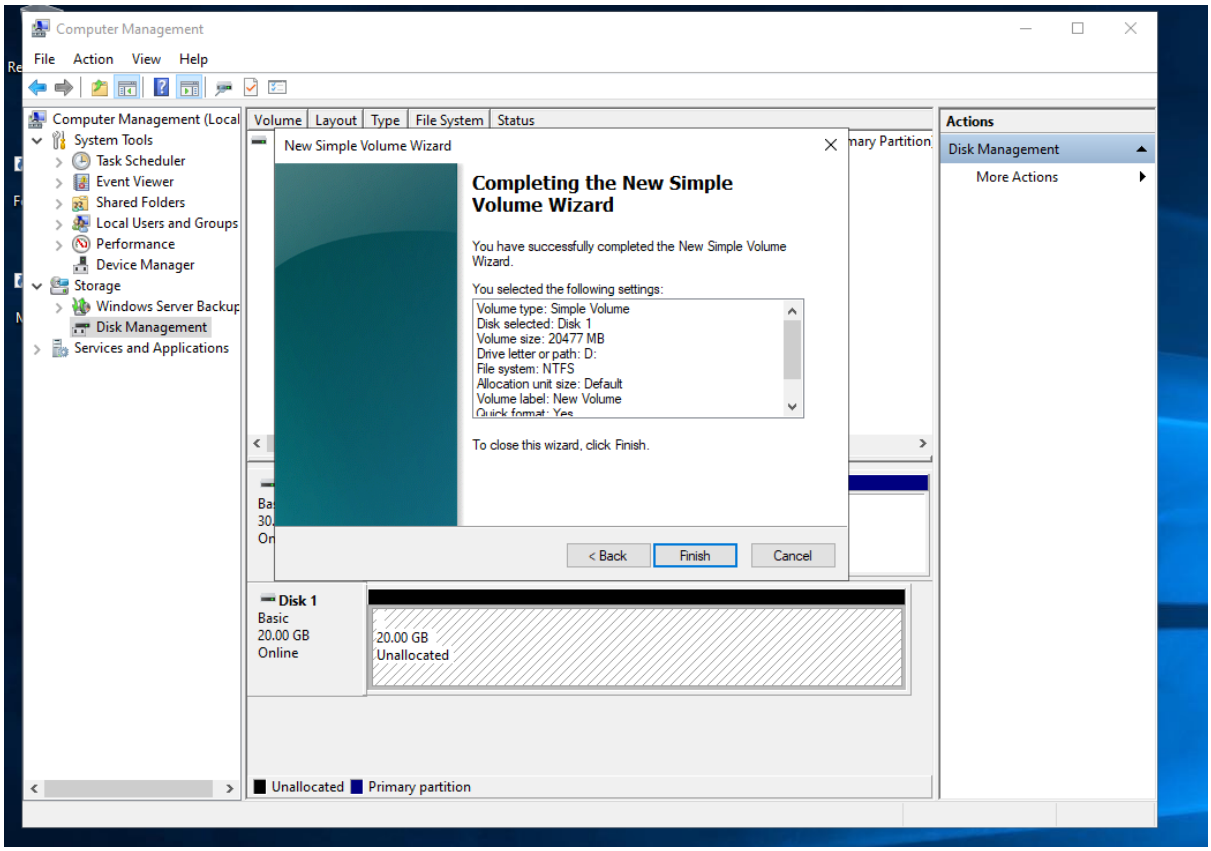
Select drive name from list →click on next



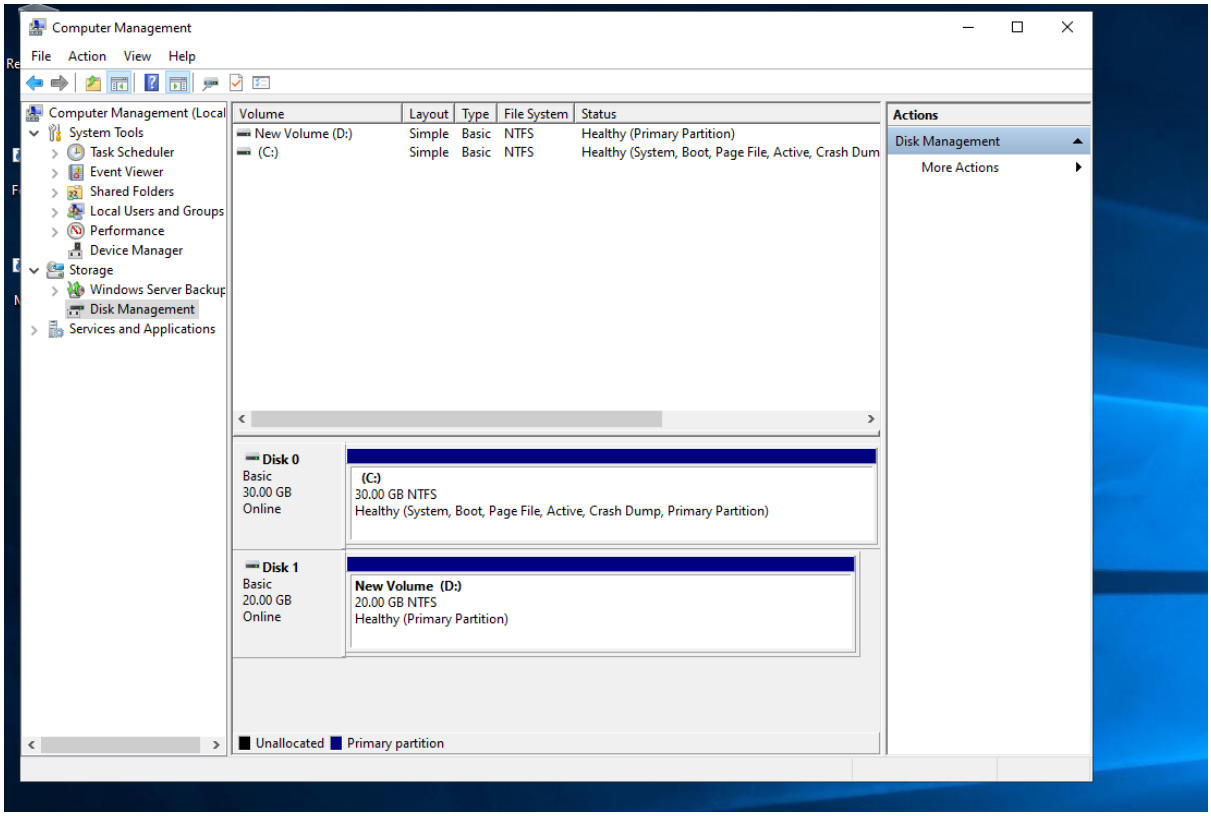
Select format of the volume as NTFS→click on next



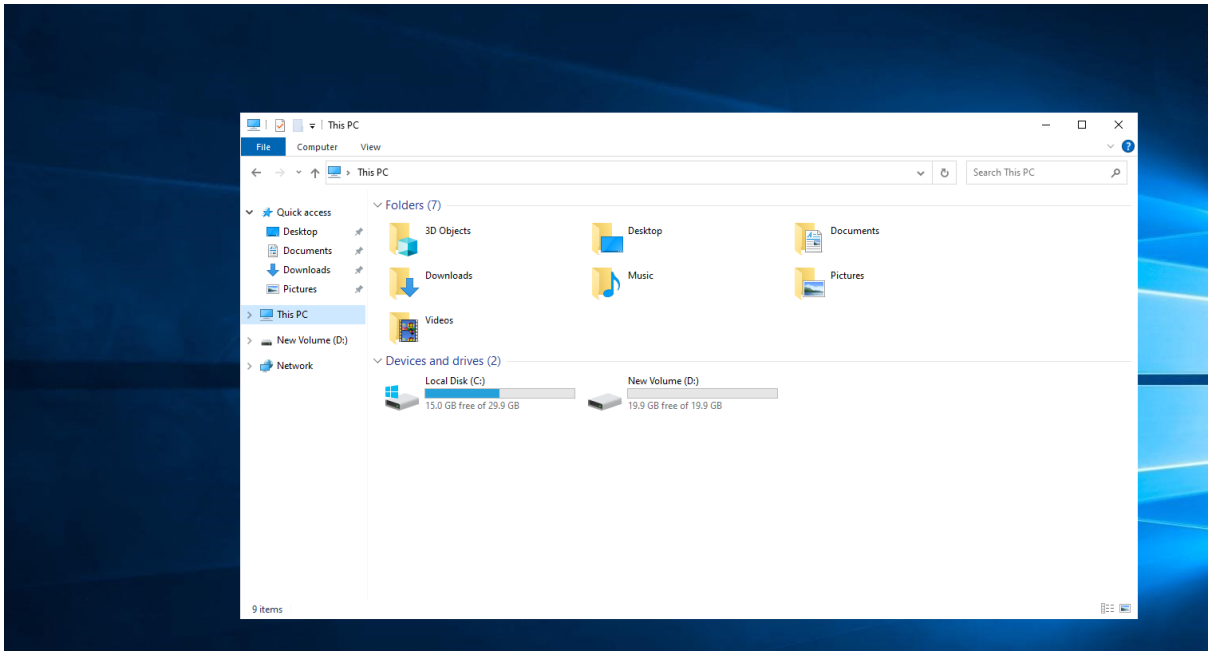
Click on finish



In disk management new volume(D) will be available

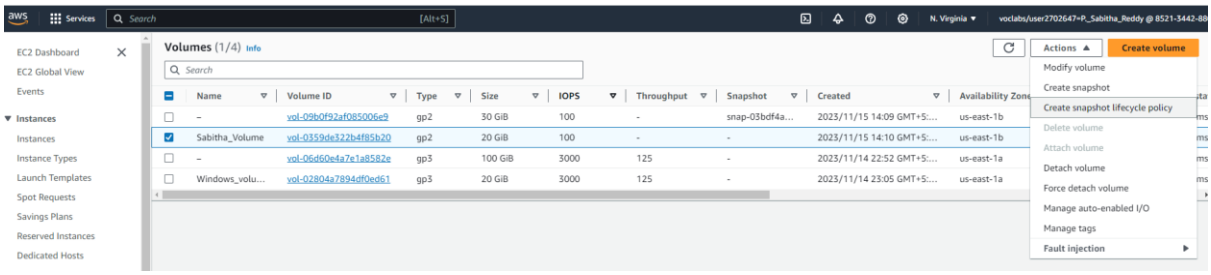


Go to this PC in the windows instance then find the new EBS Volume as D drive with 20 GB memory

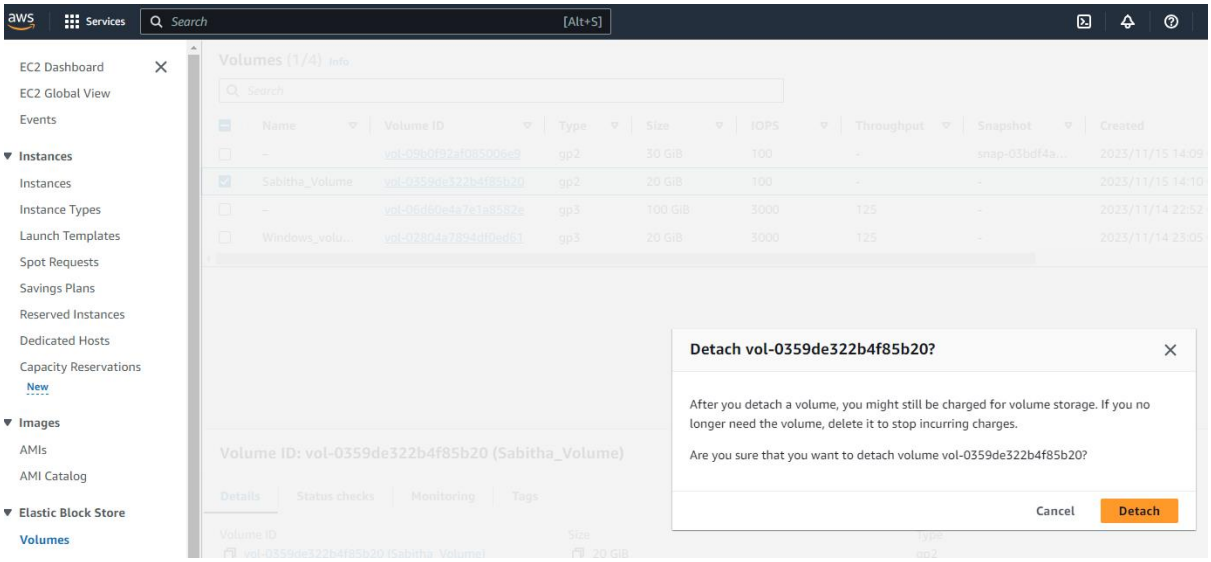


Detach the EBS volume from windows instance

In Aws Management Console go to instance→volumes→select the volume name→click on actions→click on detach volume

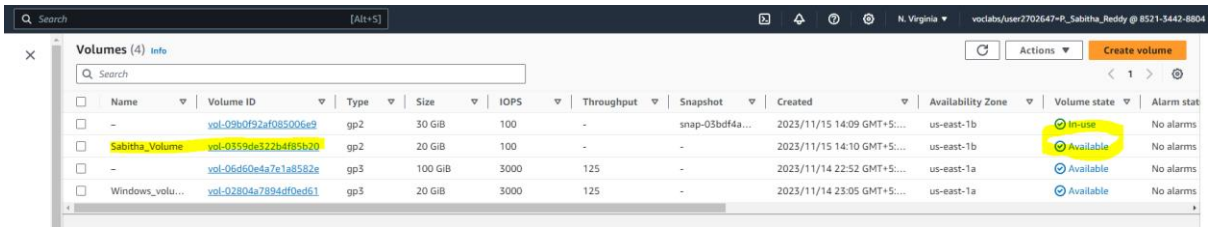


Click on detach

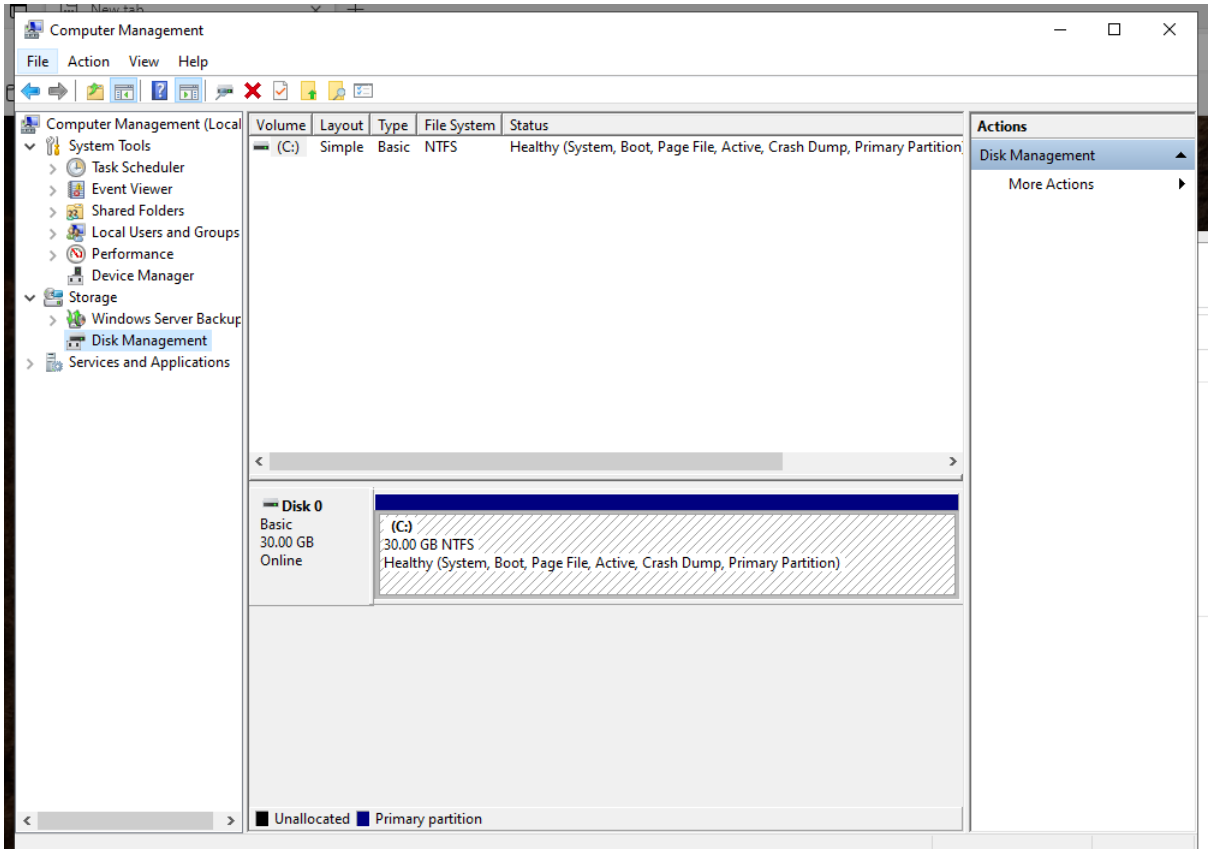


Now that EBS Volume state is change to available state from In-use state.

This volume is available for other instances.



Open the windows instance→open search bar→ computer management→ Click on storage →disk management→



Disk D volume is deleted from storage.