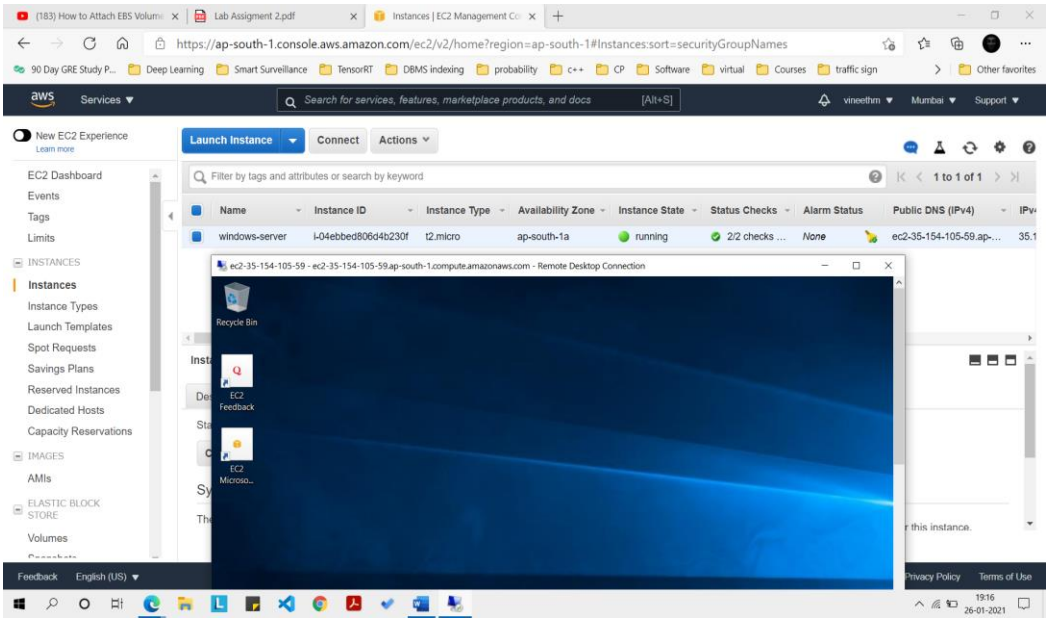
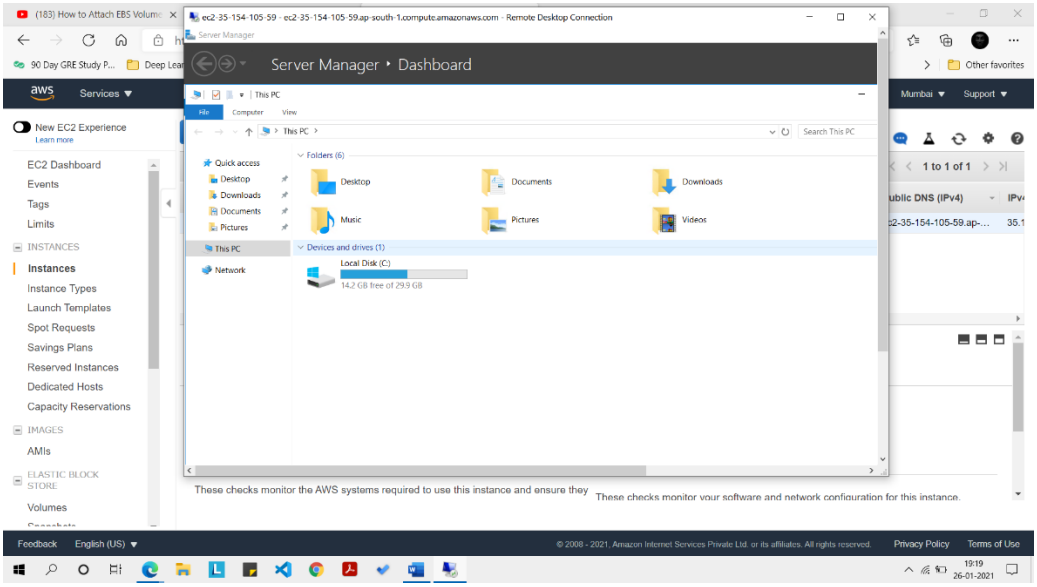
Lab Assignment – 02

Working with Amazon Elastic Block Storage(EBS).

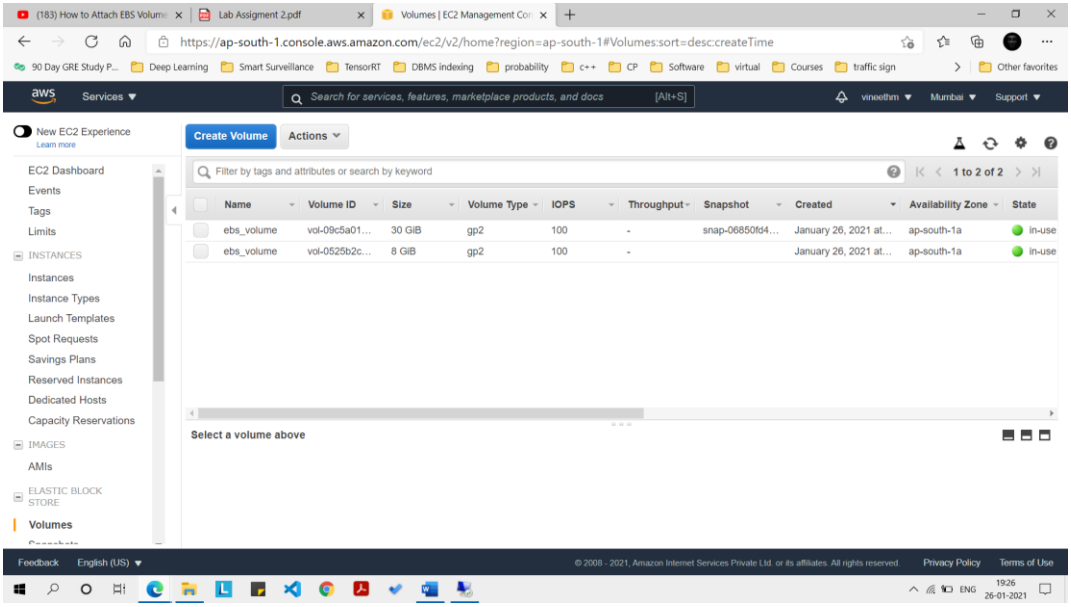
1) Creation of windows EC2 instance.



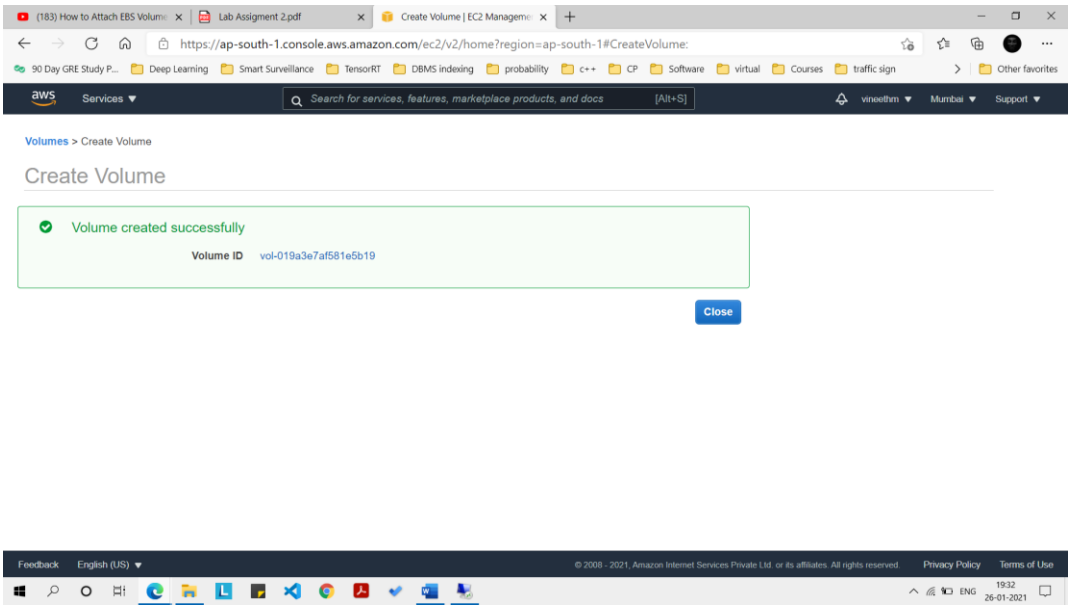
2) Initial root volume of 30 GB.

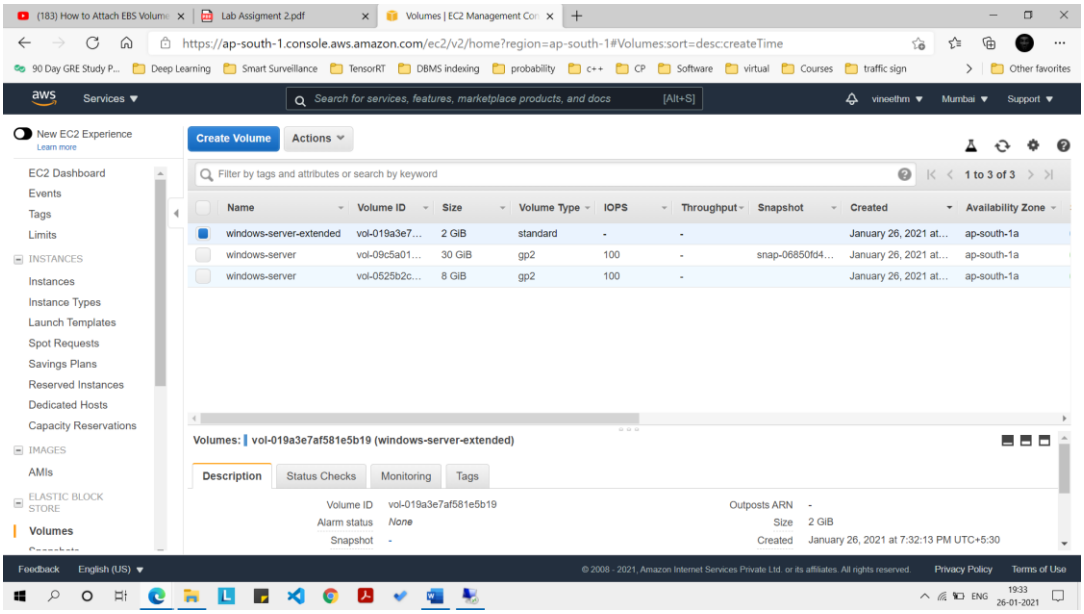


3) During the instance configuration we added an additional root volume of 8 GB.

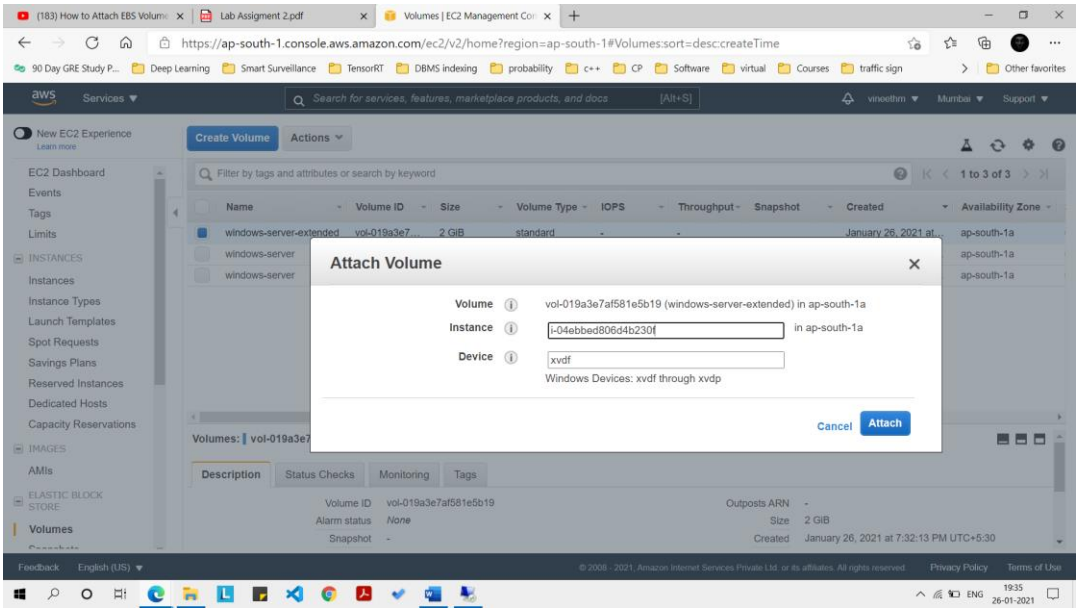


4) Creation of new volume of size = 2GB on the AWS console.



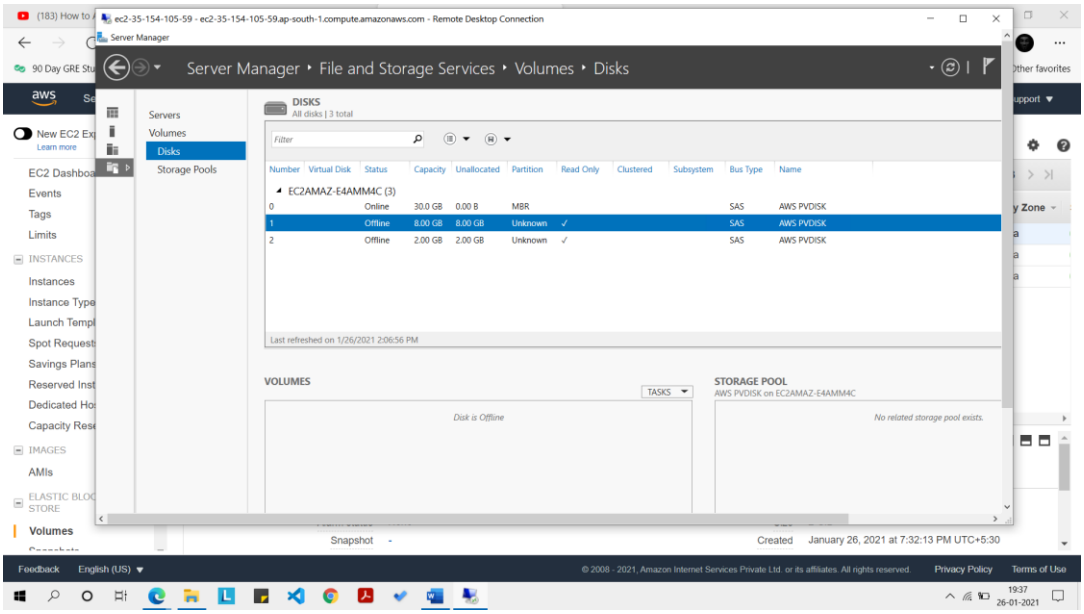


5) Attaching this new EBS volume via AWS console.

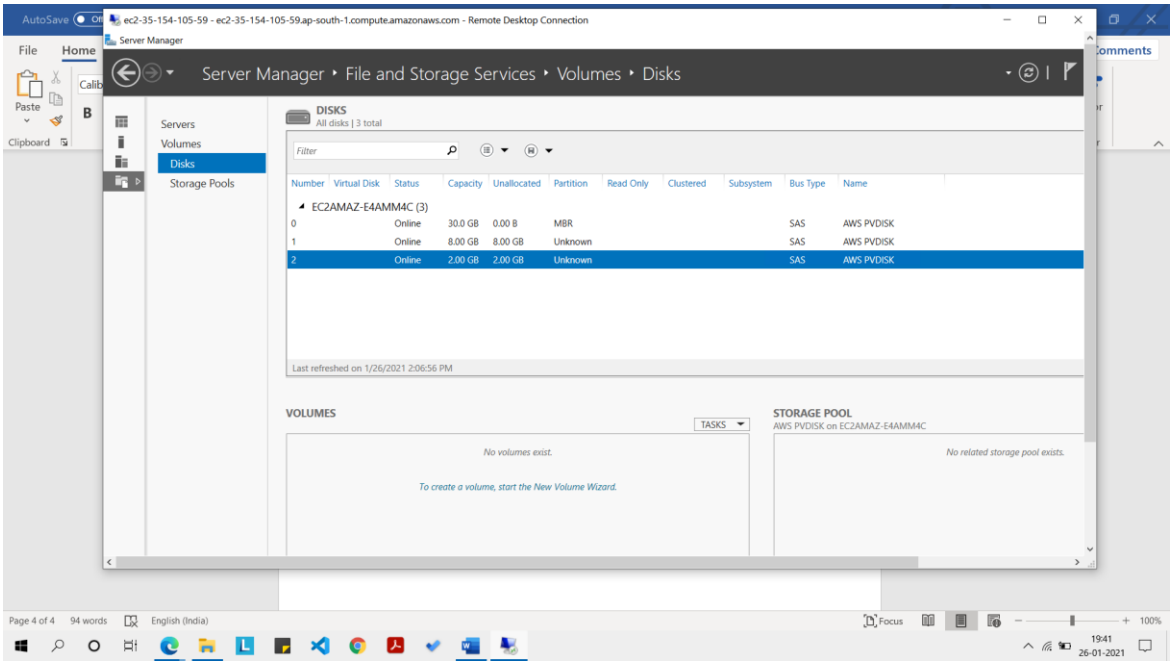


6) Refresh the Windows Server Manager to notice the availability of the newly created EBS volume of size = 2GB.

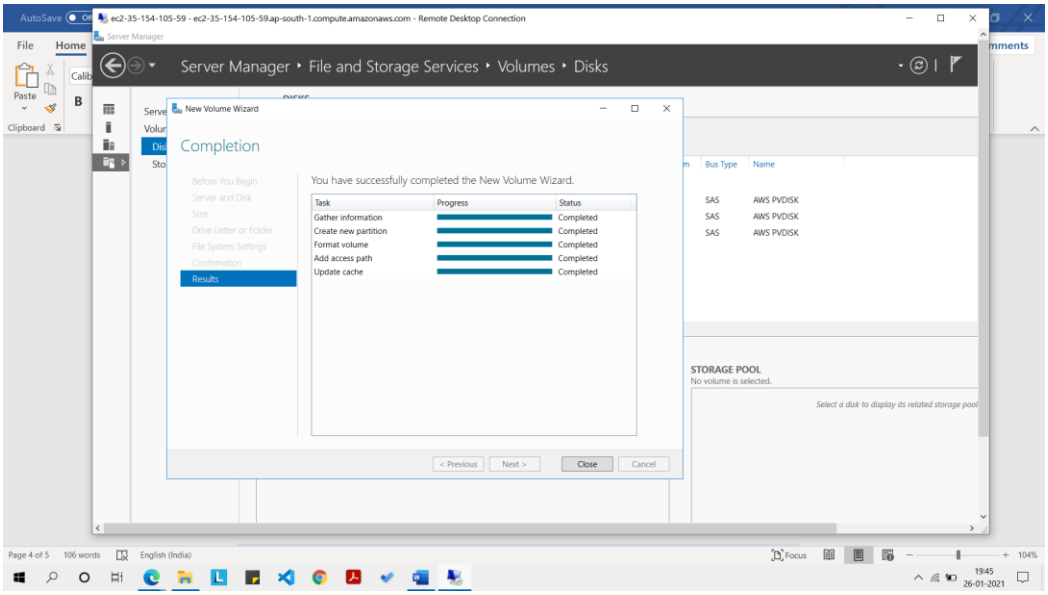
Note: Currently the other 2 added volumes are offline and we must bring them online.

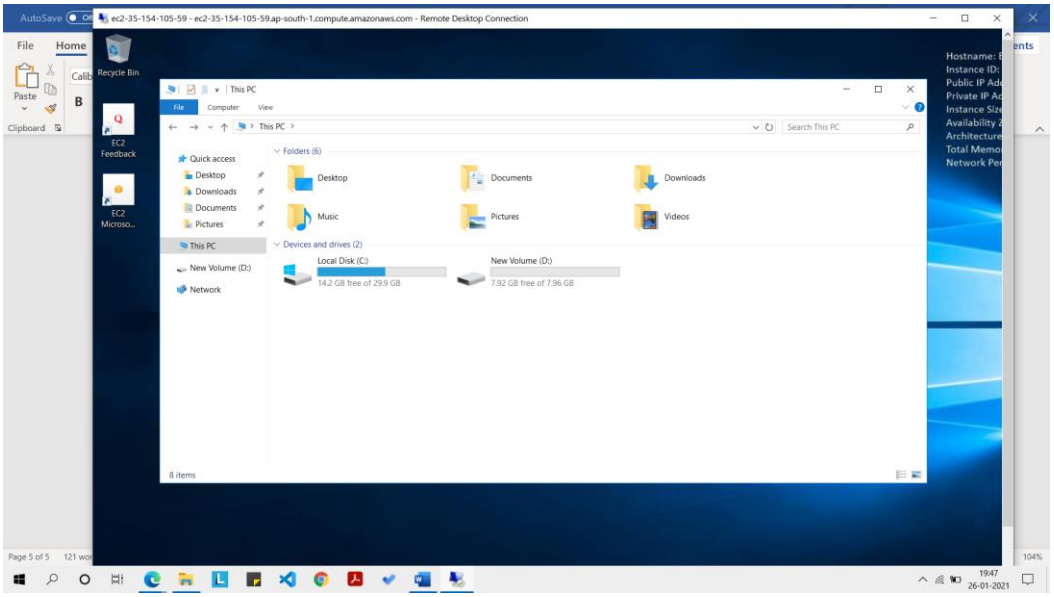


7) After changing the settings, the 2 added volumes are now online.

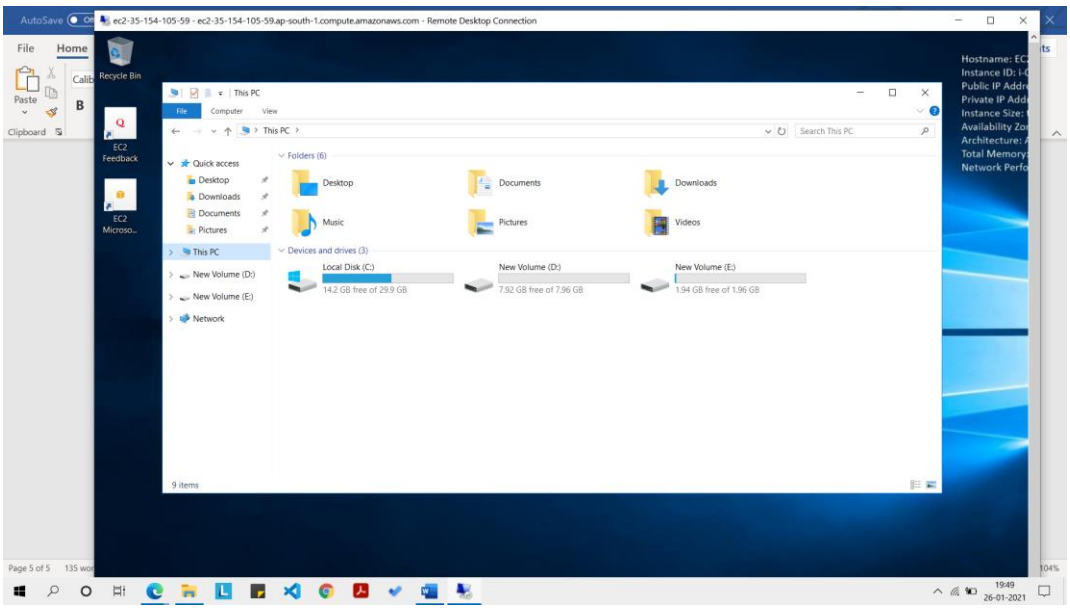


8) Creation of the new volume in the Windows Server Manager for the 8GB EBS volume.


ec2-35-154-105-59 - ec2-35-154-105-59.ap-south-1.compute.amazonaws.com - Remote Desktop Connection
Server Manager
Server Manager • File and Storage Services • Volumes • Disks
New Volume Wizard
Completion
You have successfully completed the New Volume Wizard.
Task
Progress
Status
Gather information
Create new partition
Format volume
Add access path
Update cache
Completed
Before You Begin
Server and Disk
Size
Drive Letter or Folder
File System Settings
Confirmation
Results
< Previous
Next >
Close
Cancel
Bus Type
Name
SAS
AWS PVDISK
STORAGE POOL
No volume is selected.
Select a disk to display its related storage pool
19:45
26-01-2021

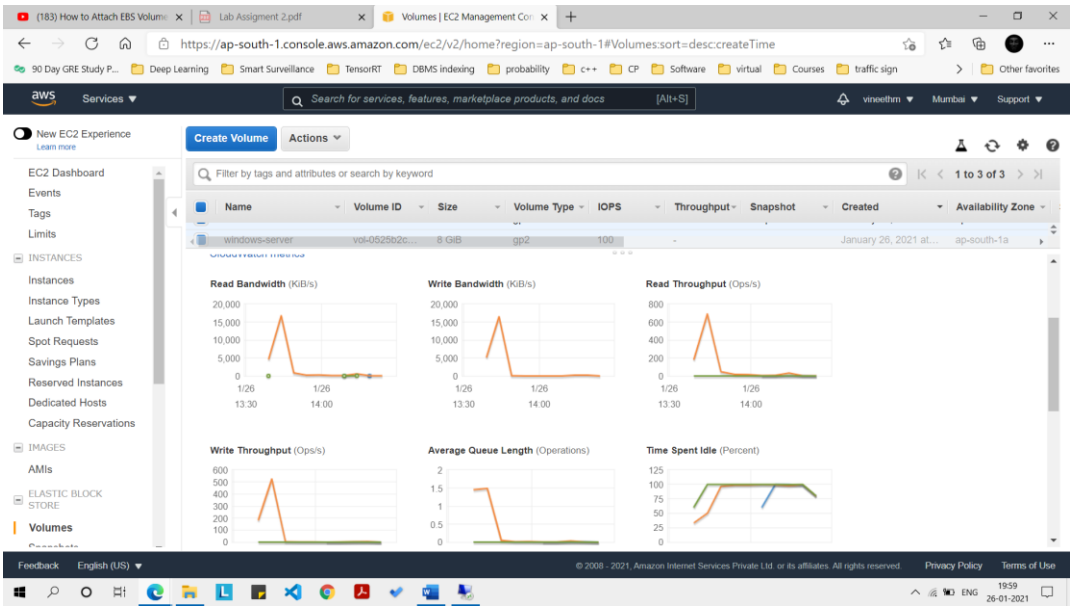

ec2-35-154-105-59 - ec2-35-154-105-59.ap-south-1.compute.amazonaws.com - Remote Desktop Connection
Recycle Bin
EC2 Feedback
This PC
Folders (6)
Desktop
Documents
Downloads
Music
Pictures
Videos
Devices and drives (2)
Local Disk (C:)
14.2 GB free of 29.9 GB
New Volume (D:)
7.92 GB free of 7.96 GB
Network
8 items
19:47
26-01-2021

9) Repeating the same steps for attaching the EBS volume of size = 2GB.



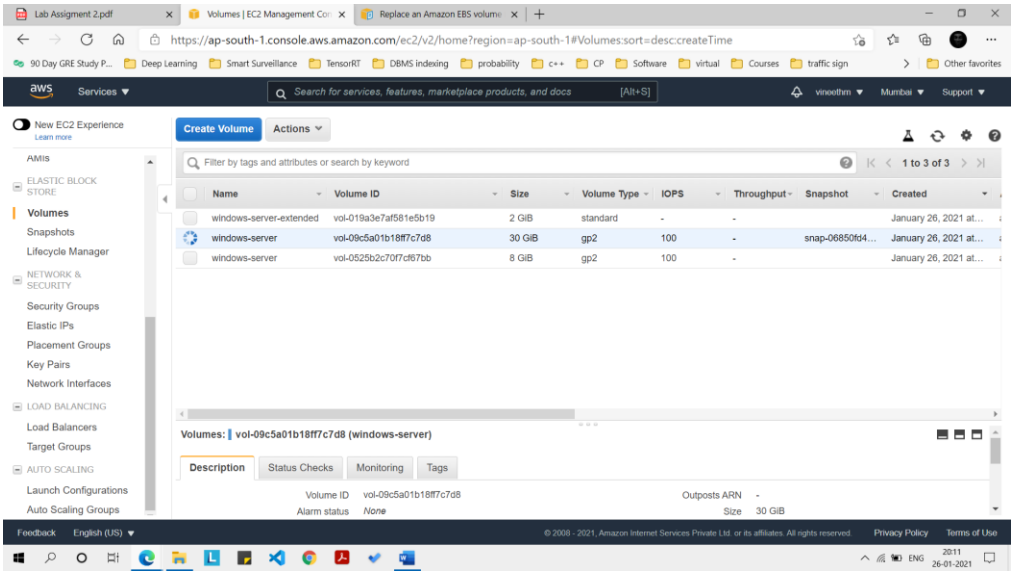
We can now observe all the 3 EBS root volumes.

10) Monitoring the status of the volumes.

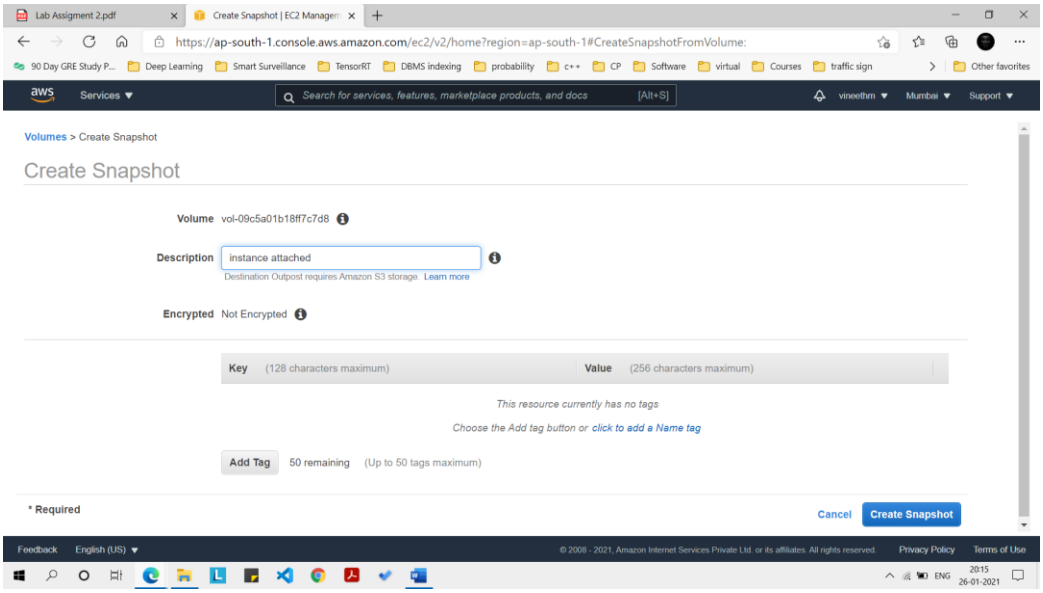


11) Replace the volume

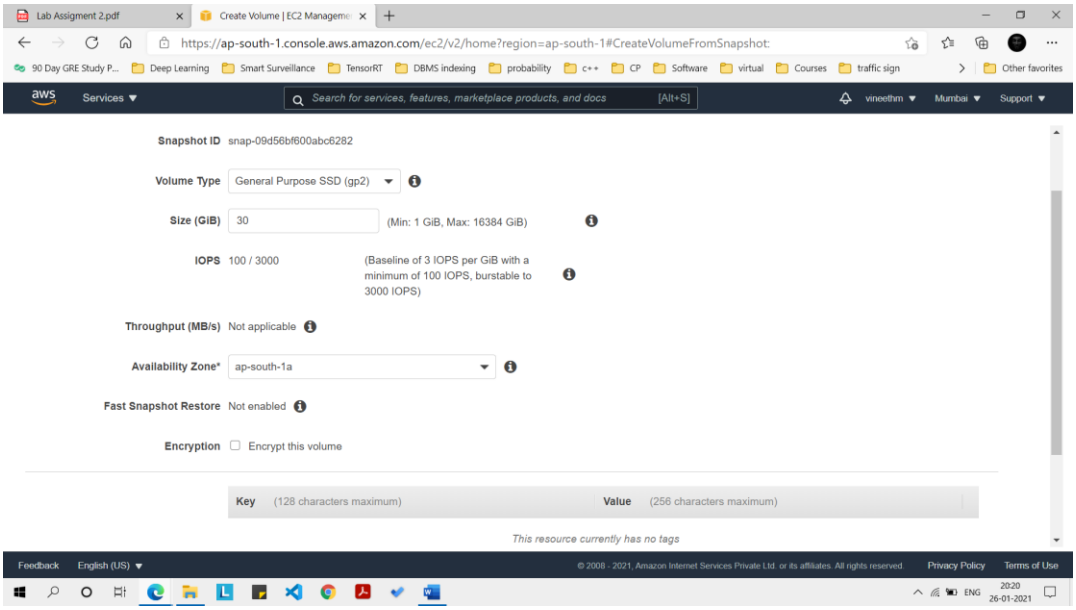
First detach the root volume on which the OS is installed. In my case it is the 30 GB one.



12) Create a snapshot for the root volume.

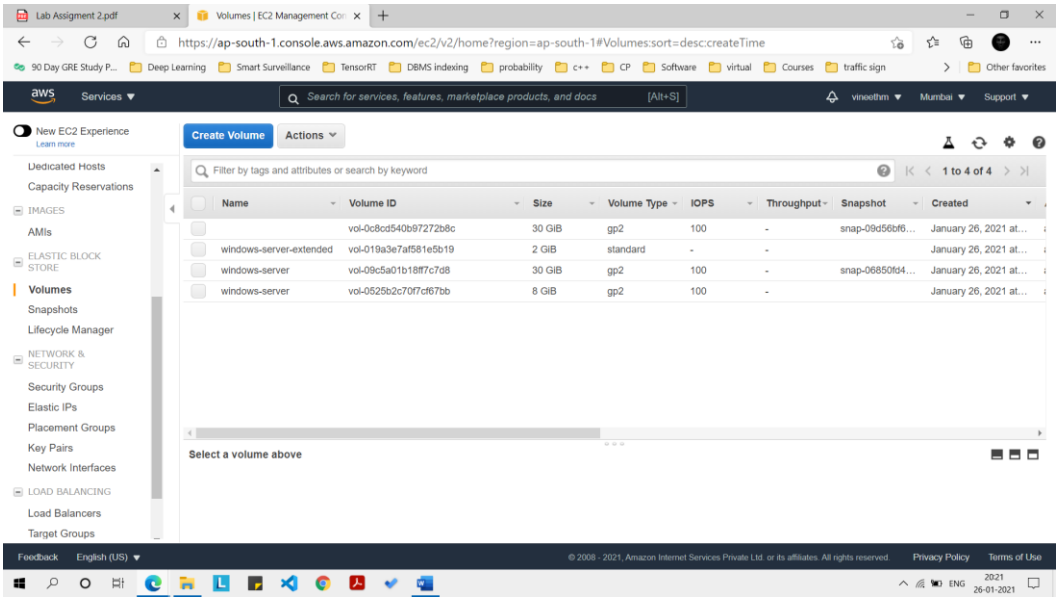


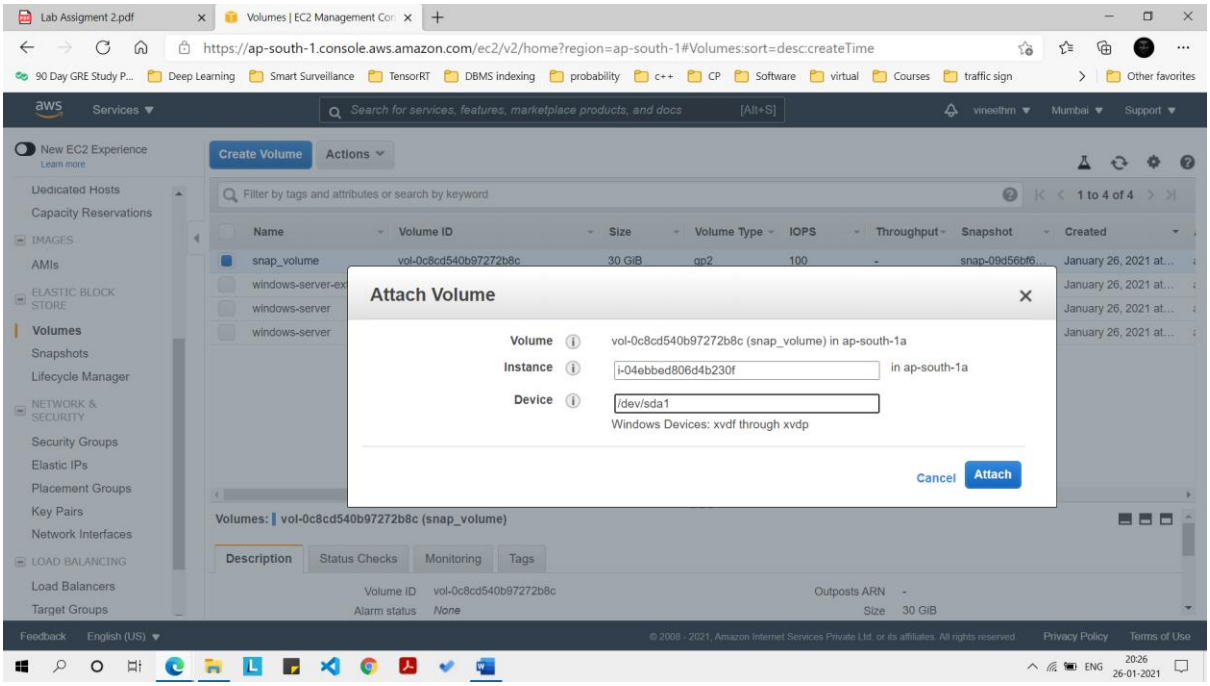
13) Now create the volume from the snapshot.



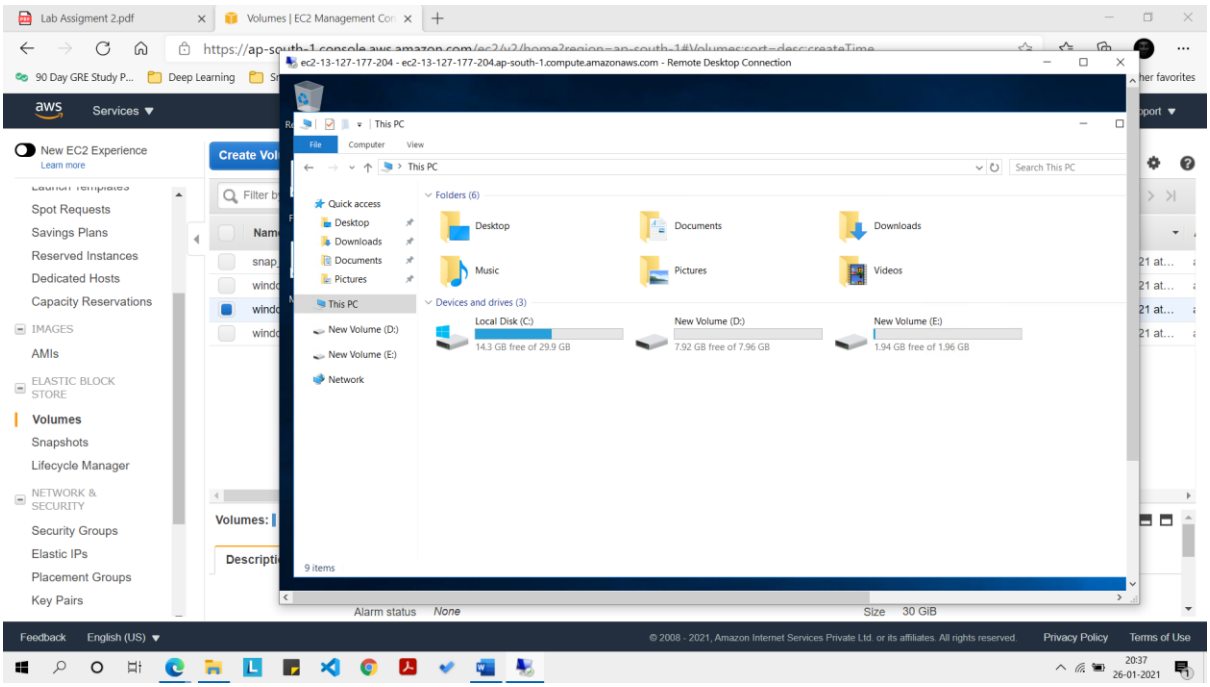
14) Now attach the volume to the windows EC2 instance.

The newly created volume is the one available on the top(unnamed).





15) Start the instance and remote login in that.

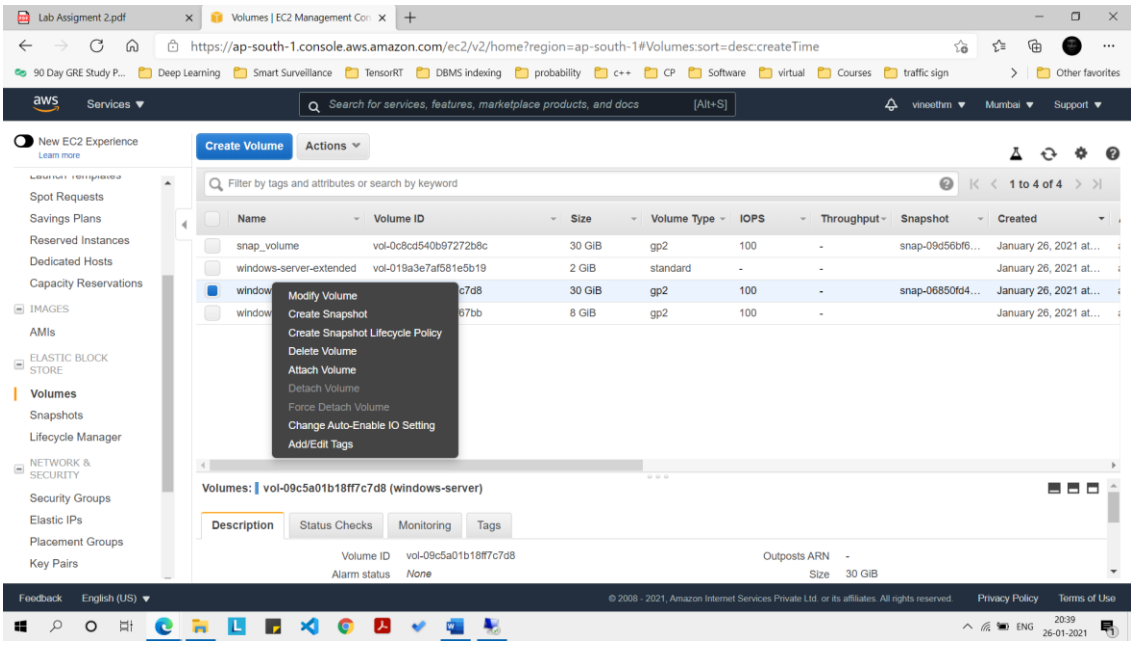


We are able to successfully login into our EC2 instance, which indicates that we were able to create a volume from the snapshot of the detached root volume containing the OS.

Else, we would have faced error.

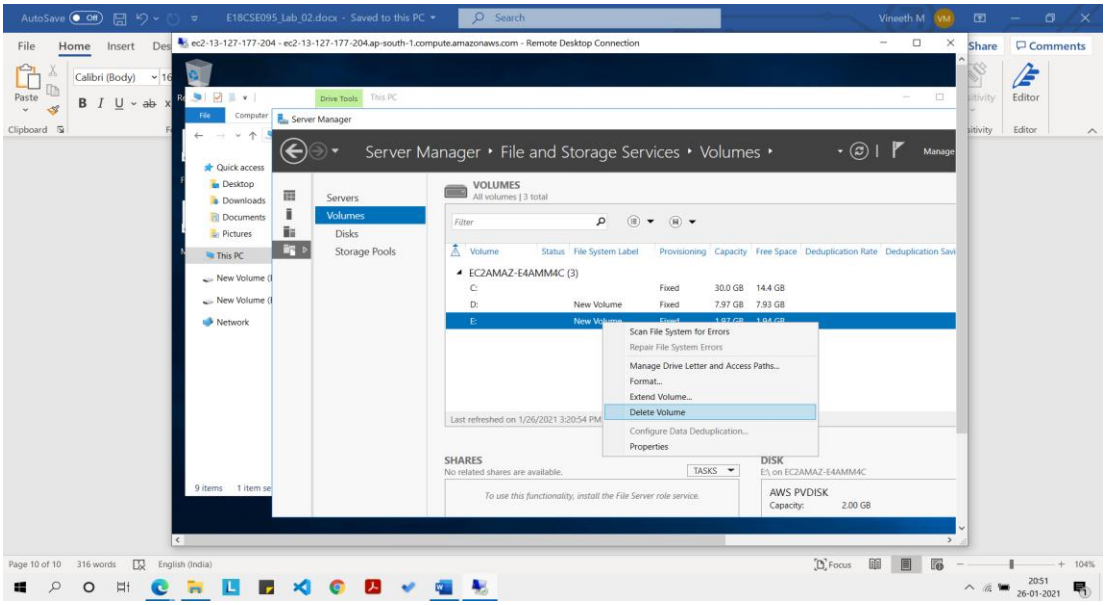
Note: The original EBS root volume created during the EC2 instance creation is detached. This volume contains the Windows OS.

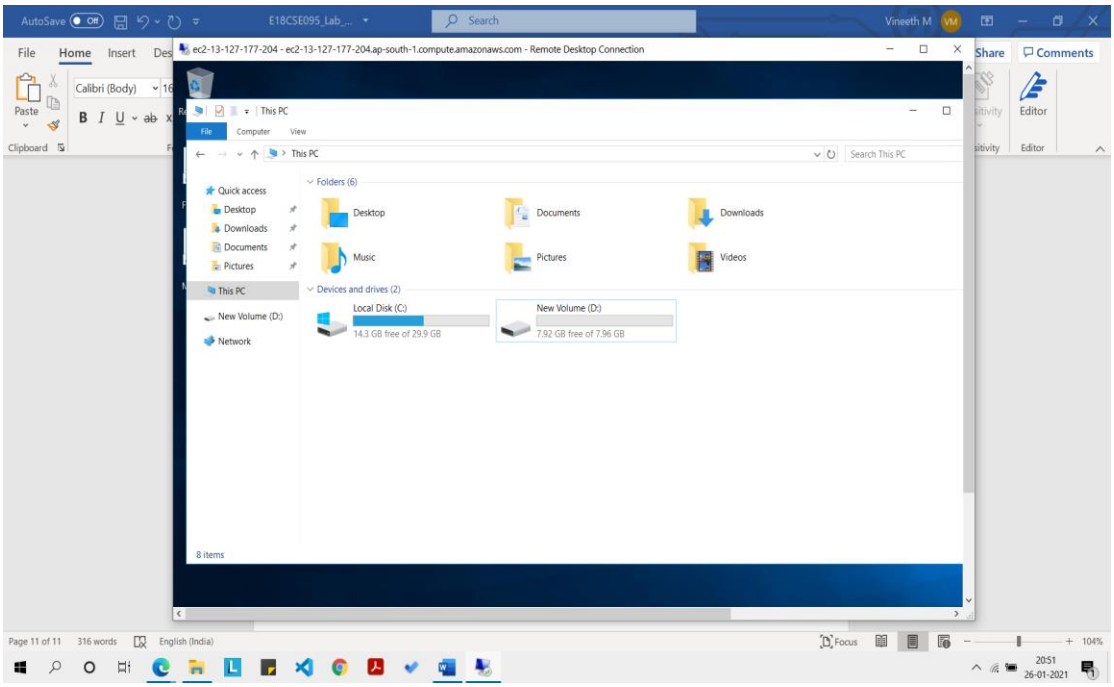
The “snap_volume” is the new volume created from the snapshot of this detached volume, hence this contains the OS and windows was loaded from the OS present in this volume.



16) Deleting the volume via Server Manager.

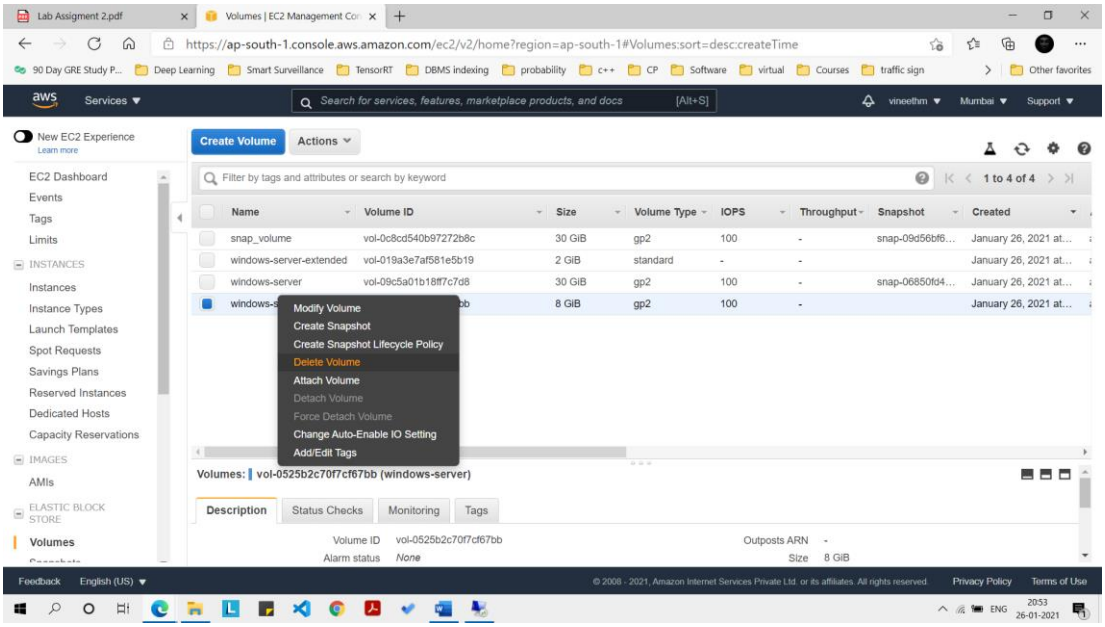
Note: This process deletes the volume from the EC2 instance, but the actual volume does exist. To permanently delete the instance, follow step 17.


ec2-13-127-177-204 - ec2-13-127-177-204.ap-south-1.compute.amazonaws.com - Remote Desktop Connection
Server Manager
Server Manager • File and Storage Services • Volumes •
VOLUMES
Servers
Volumes
Disks
Storage Pools
EC2AMAZ-E4AMM4C (3)
Scan File System for Errors
Repair File System Errors
Manage Drive Letter and Access Paths...
Format...
Extend Volume...
Delete Volume
Configure Data Deduplication...
Properties
SHARES
No related shares are available.
DISK
AWS PVDISK
Capacity: 2.00 GB

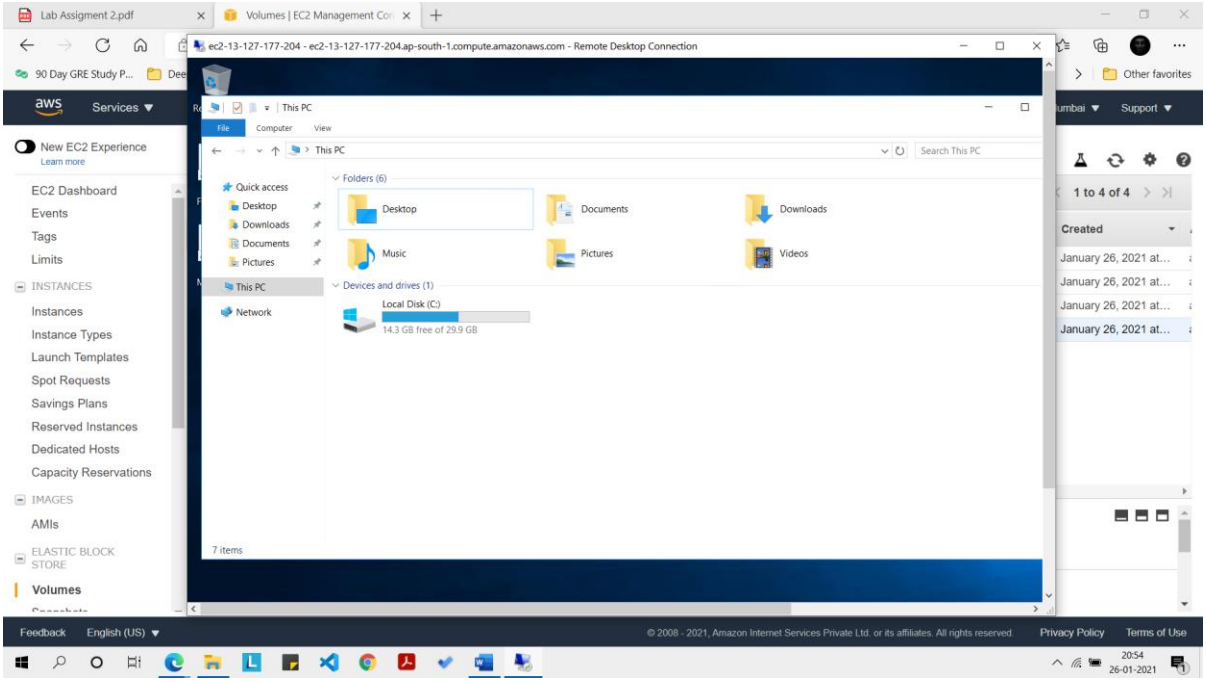

ec2-13-127-177-204 - ec2-13-127-177-204.ap-south-1.compute.amazonaws.com - Remote Desktop Connection
This PC
Folders (6)
Desktop
Documents
Downloads
Music
Pictures
Videos
Devices and drives (2)
Local Disk (C:)
14.3 GB free of 29.9 GB
New Volume (D:)
7.92 GB free of 7.96 GB
8 items

17) Deleting the volume via AWS console.

First detach the volume and then delete the volume.



Final confirmation:



Now, we have deleted the 2 volumes. The system is back to the stage where we started off.