ASSIGNMENT – 01

COURSE : DEVOPS

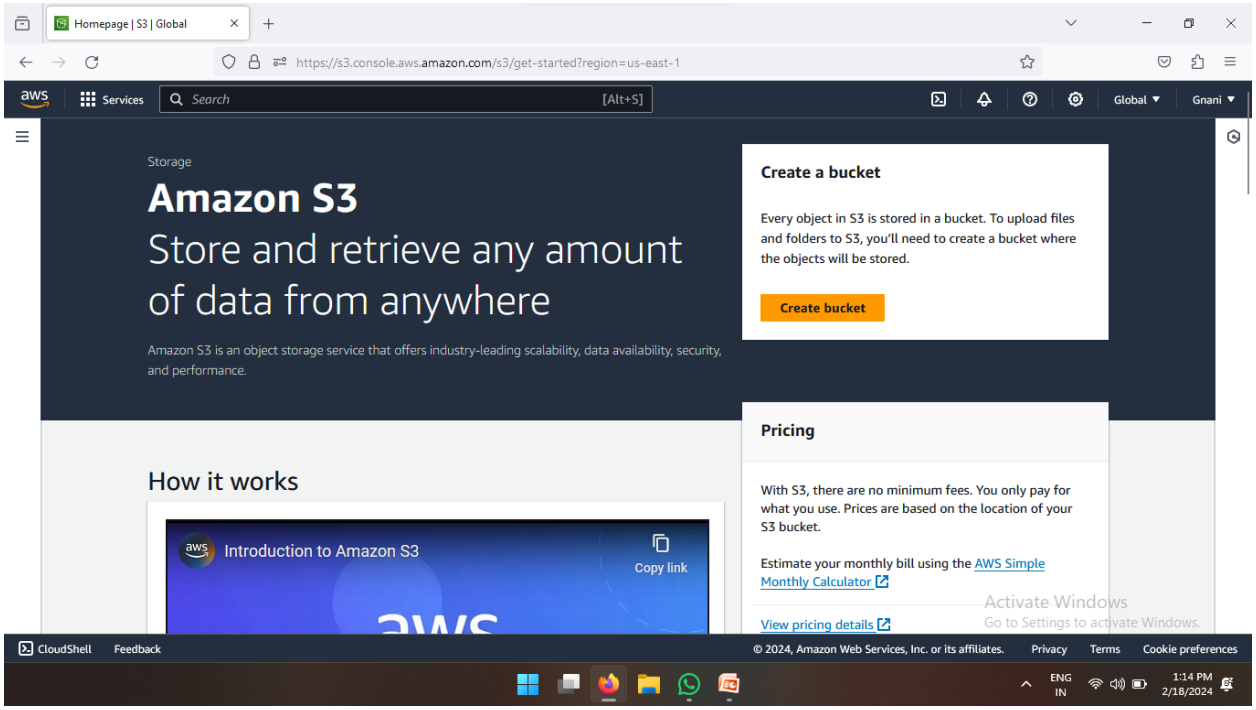
Trainer : Mr . MADHUKAR

NAME : A GNANESHWAR

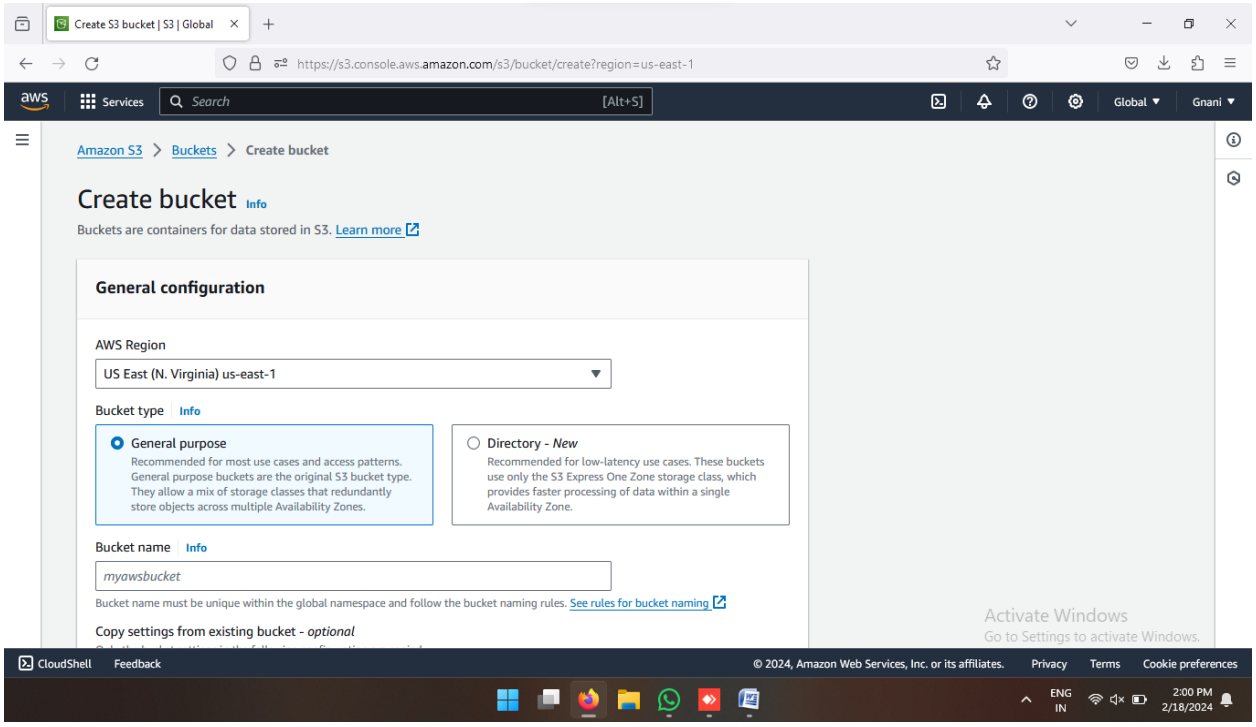
Mail id : gnaneshwar502@gmail.com

1 . Create a S3 bucket and enable cross region replication for any two buckets in different in different region ?

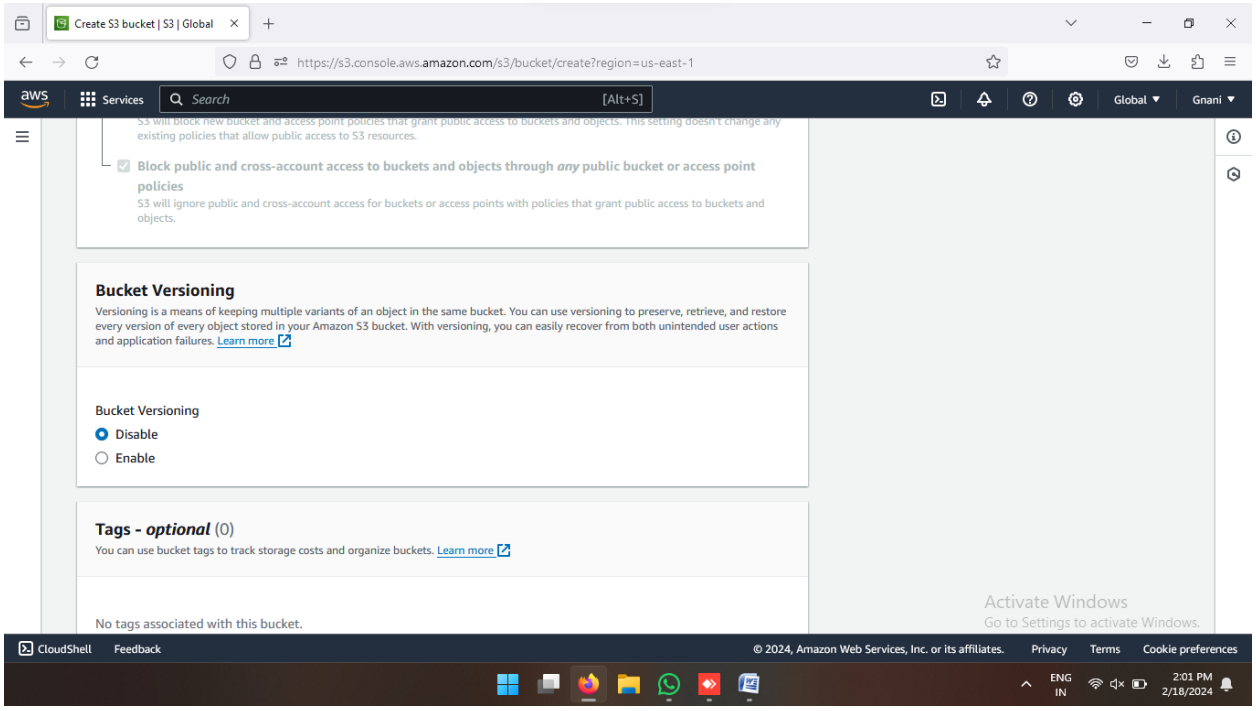
- Go to Amazon S3 , Click on Create Bucket



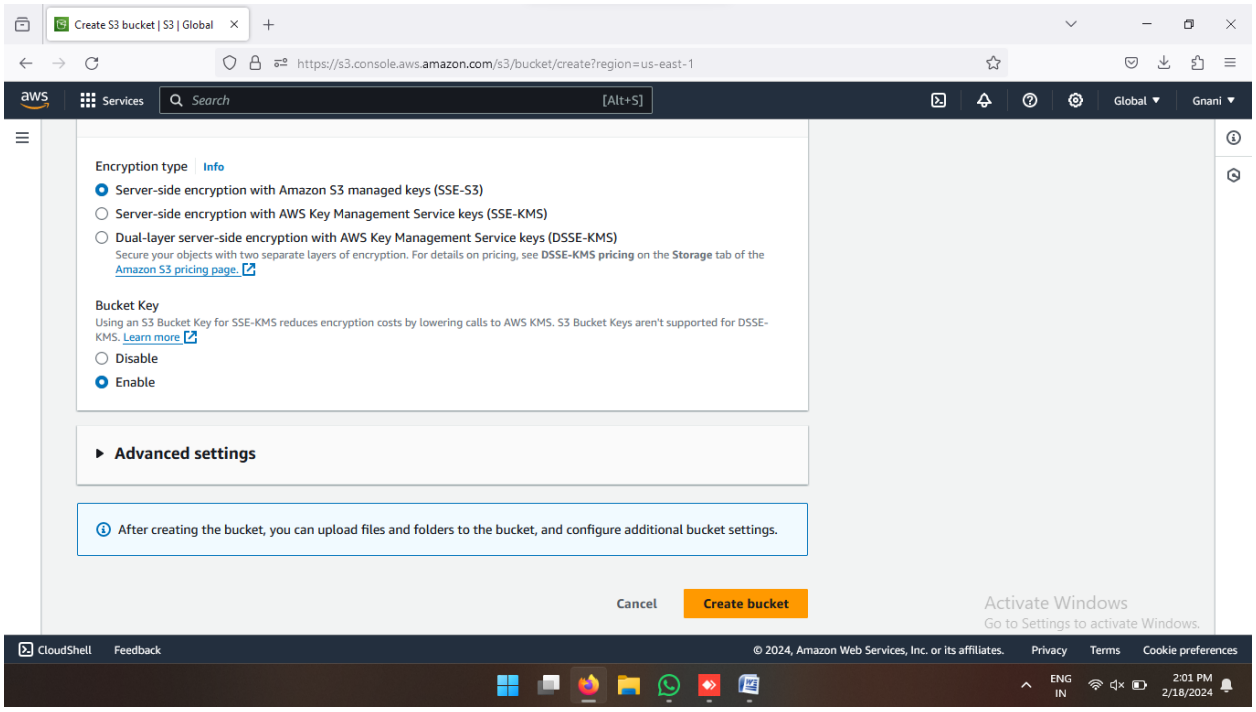
- Enter Bucket Name and Select Any one Region



- Enable Bucket Version

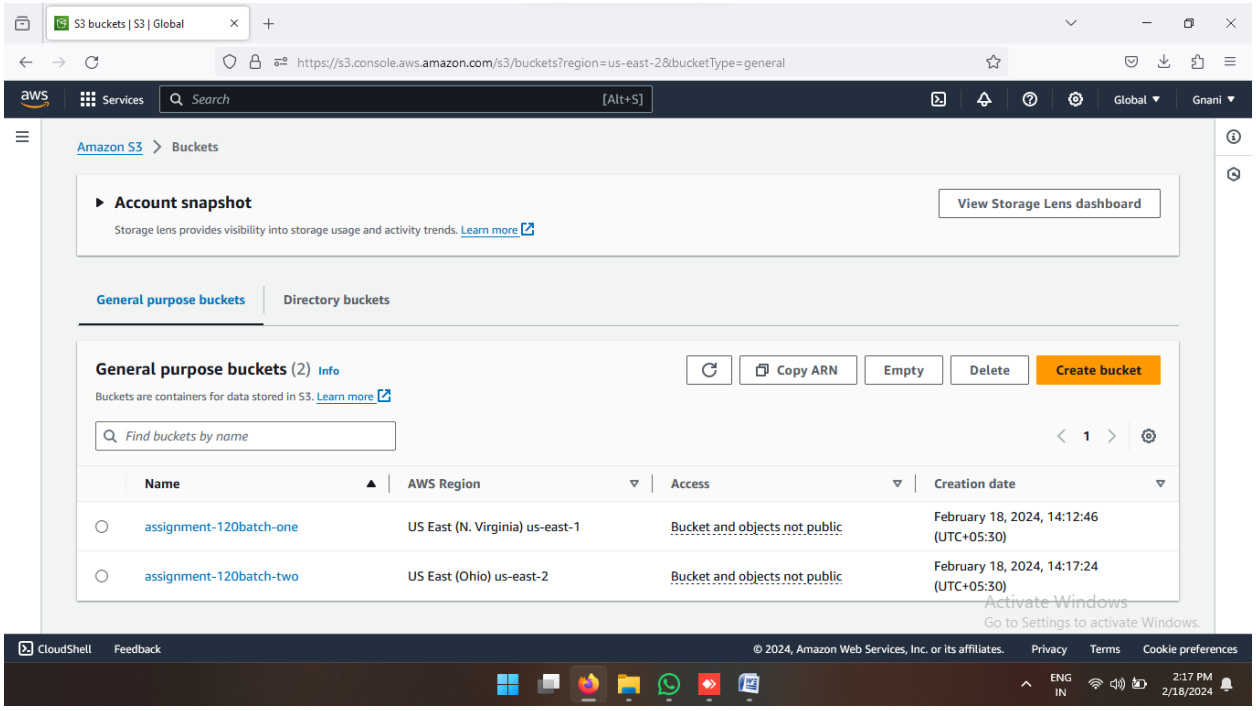


- After that Click on Create Bucket

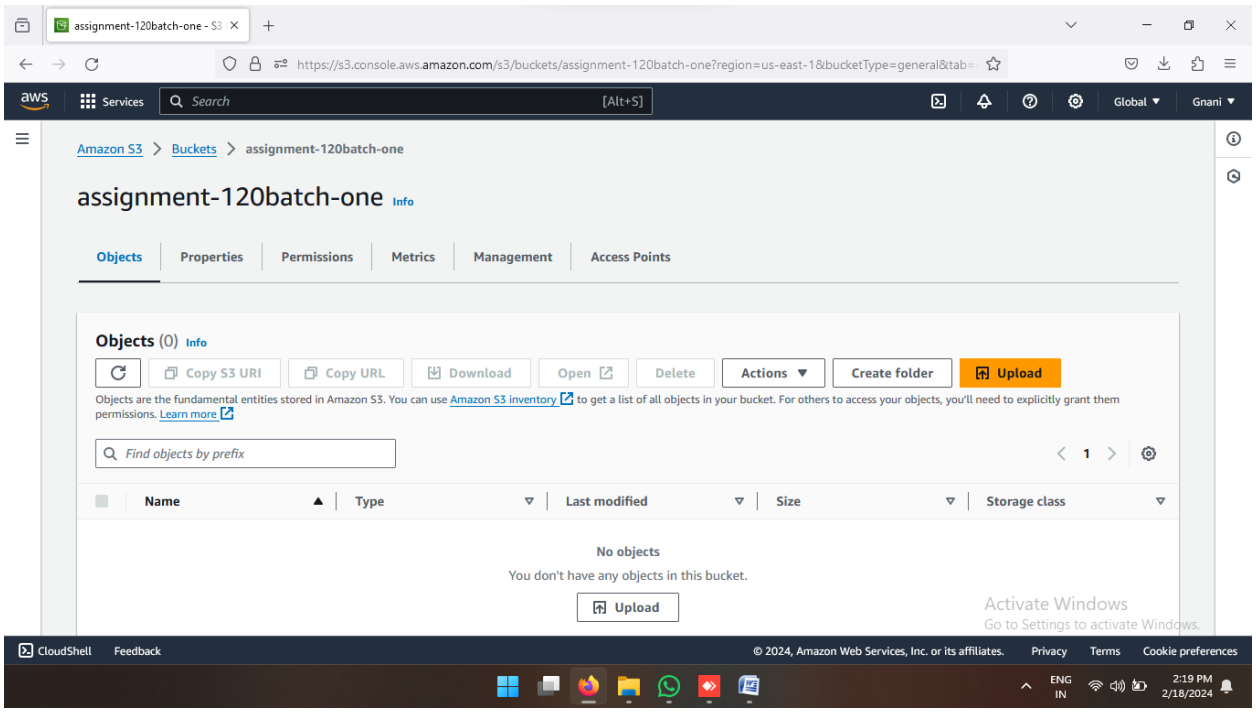


- One more bucket created in different region.

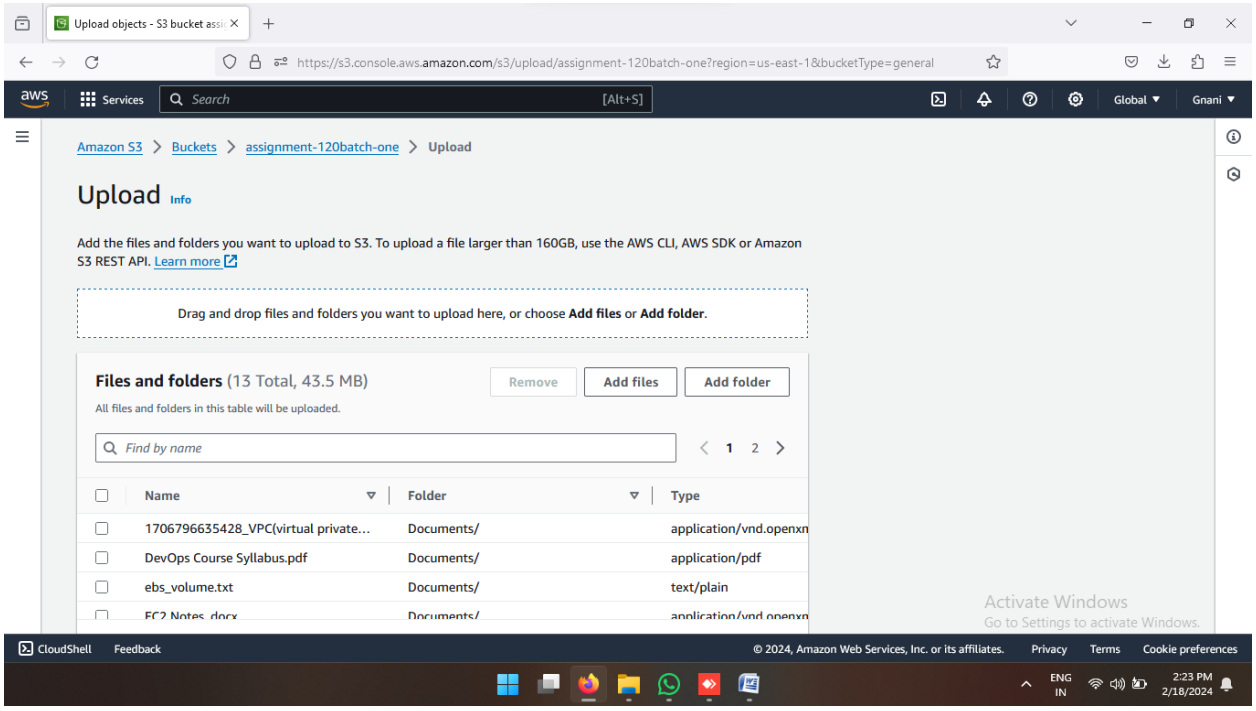
- Now see the 2 Buckets in different region



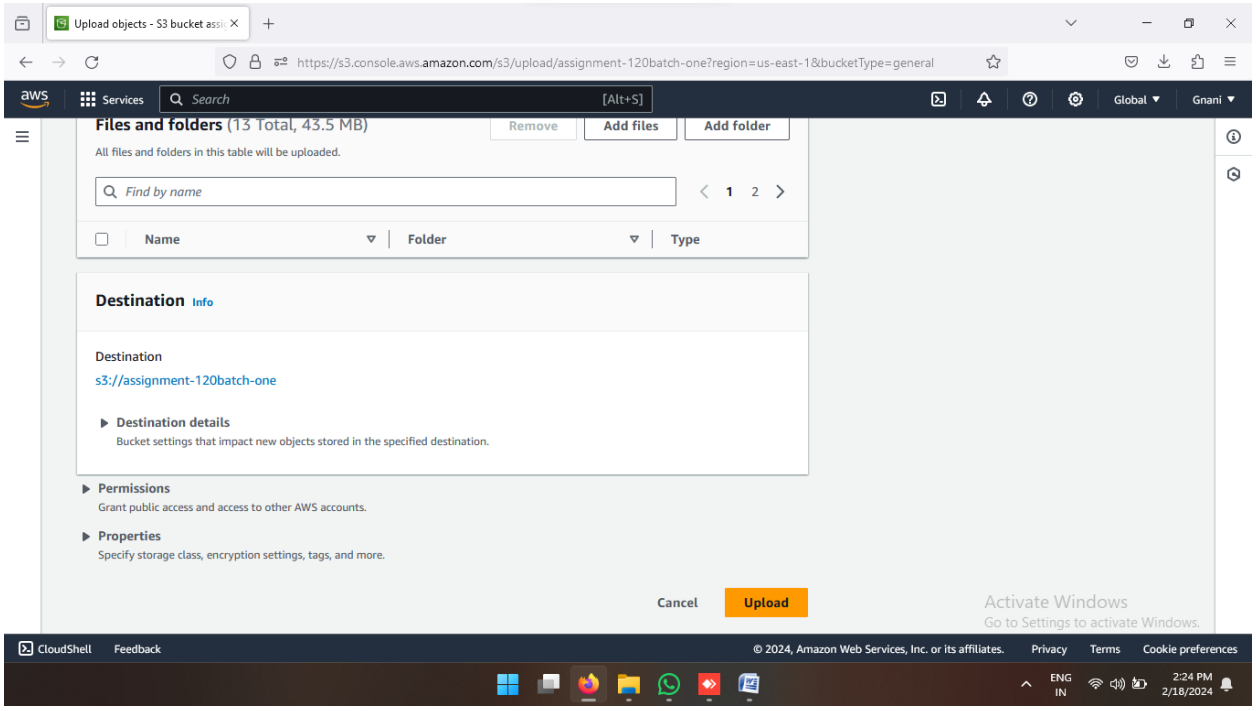
- Now go to first bucket and click on upload



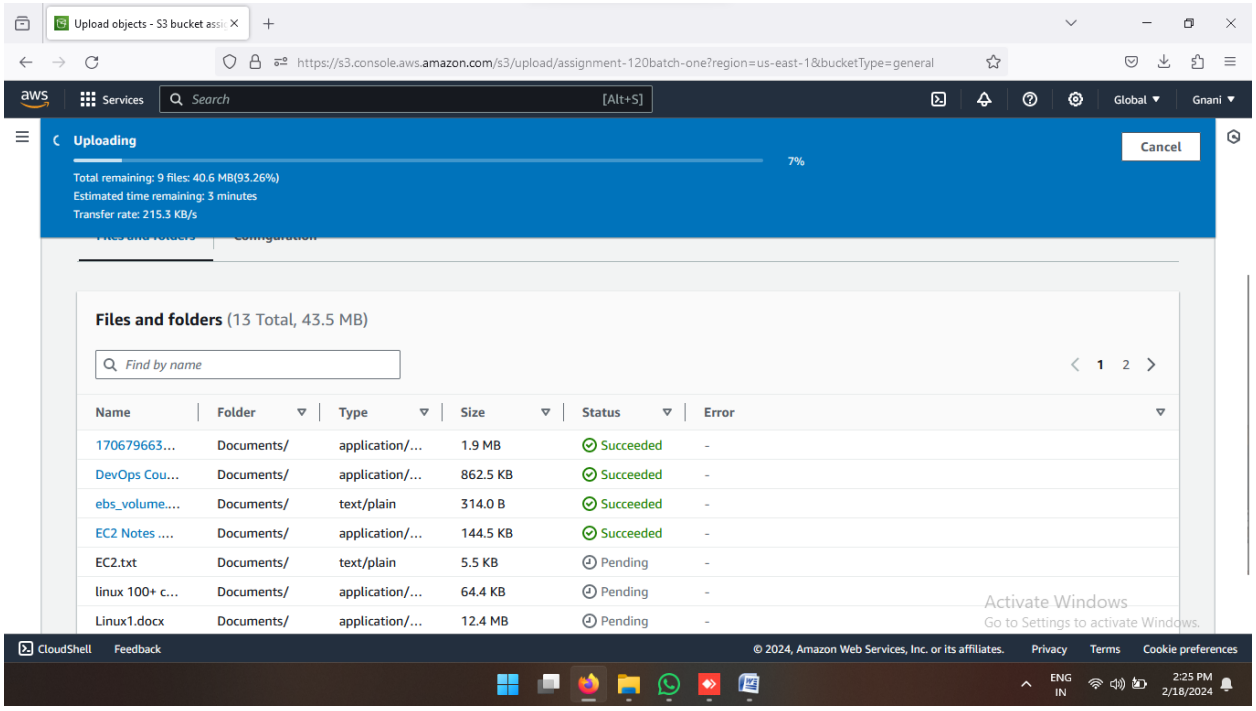
- Then Add Files and Add Folders then upload



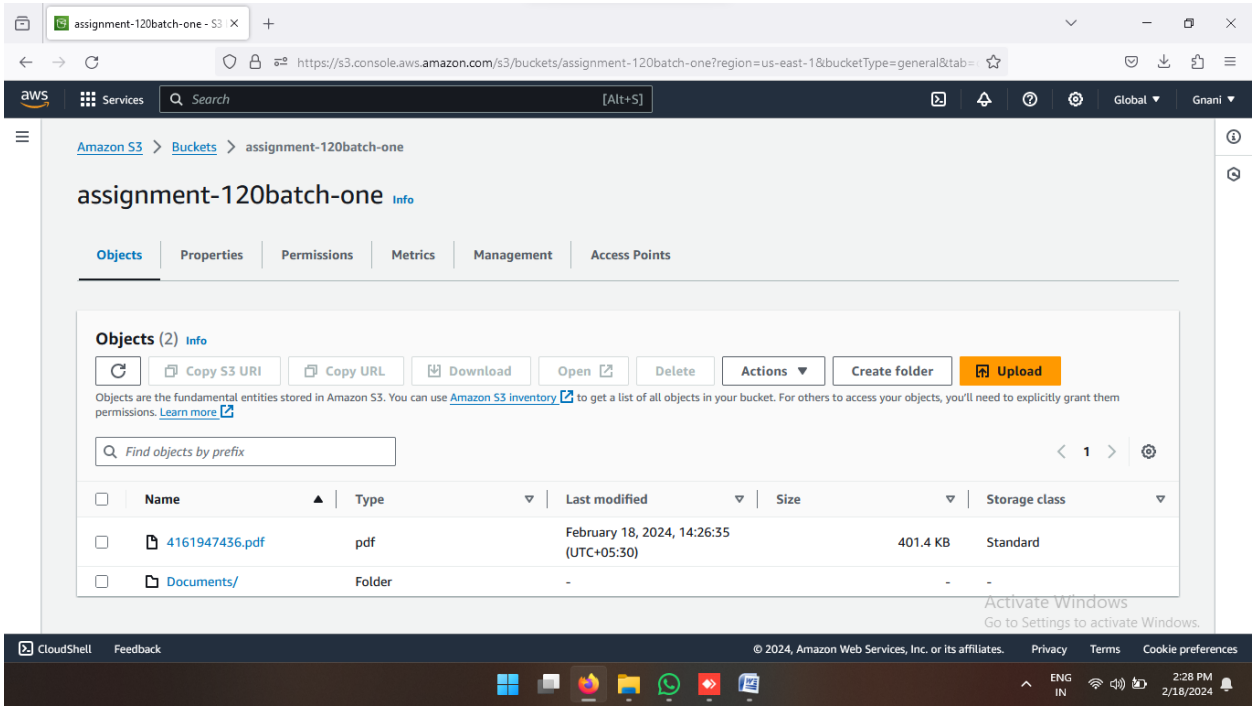
- Click on Upload



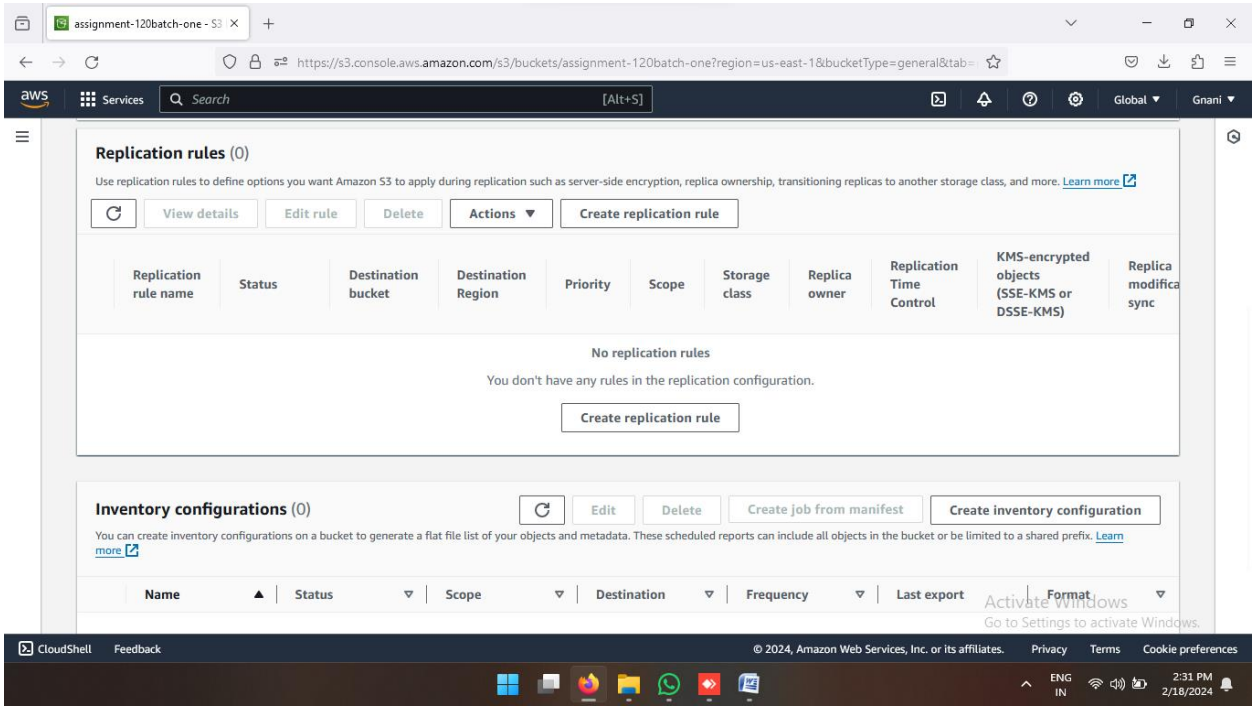
- Uploading Files and Folders



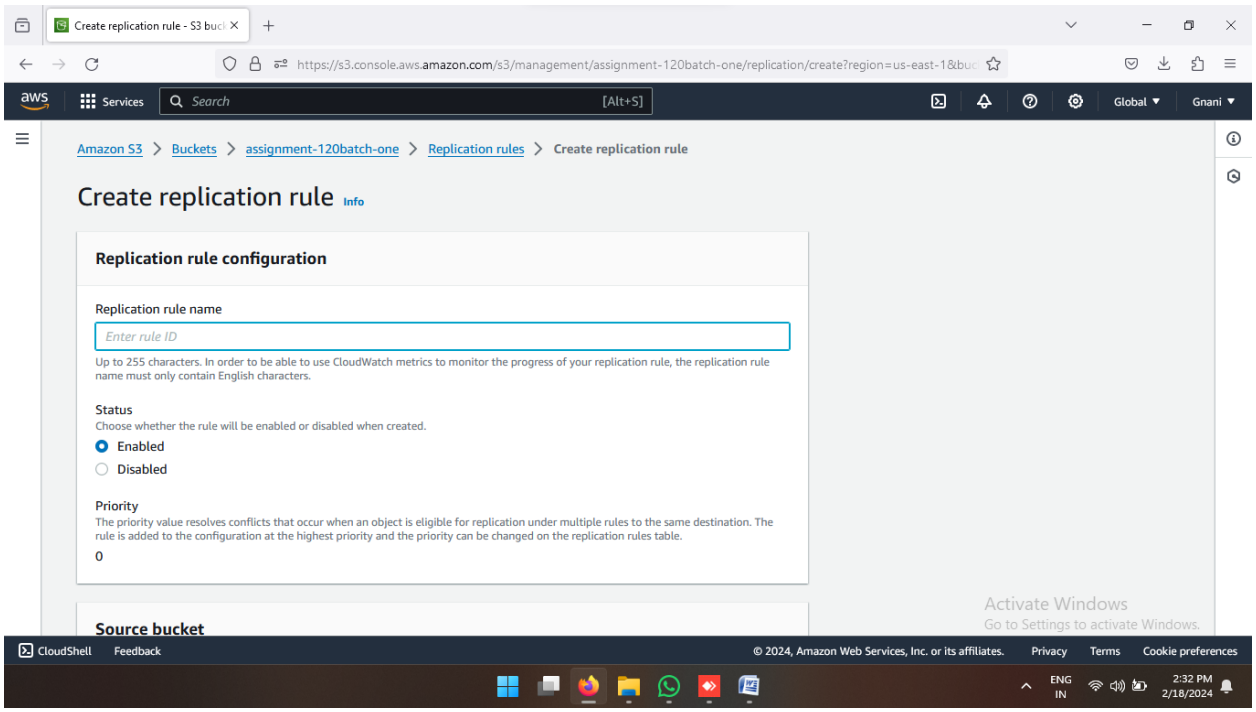
- Now go to Management in first bucket (or) Source Bucket



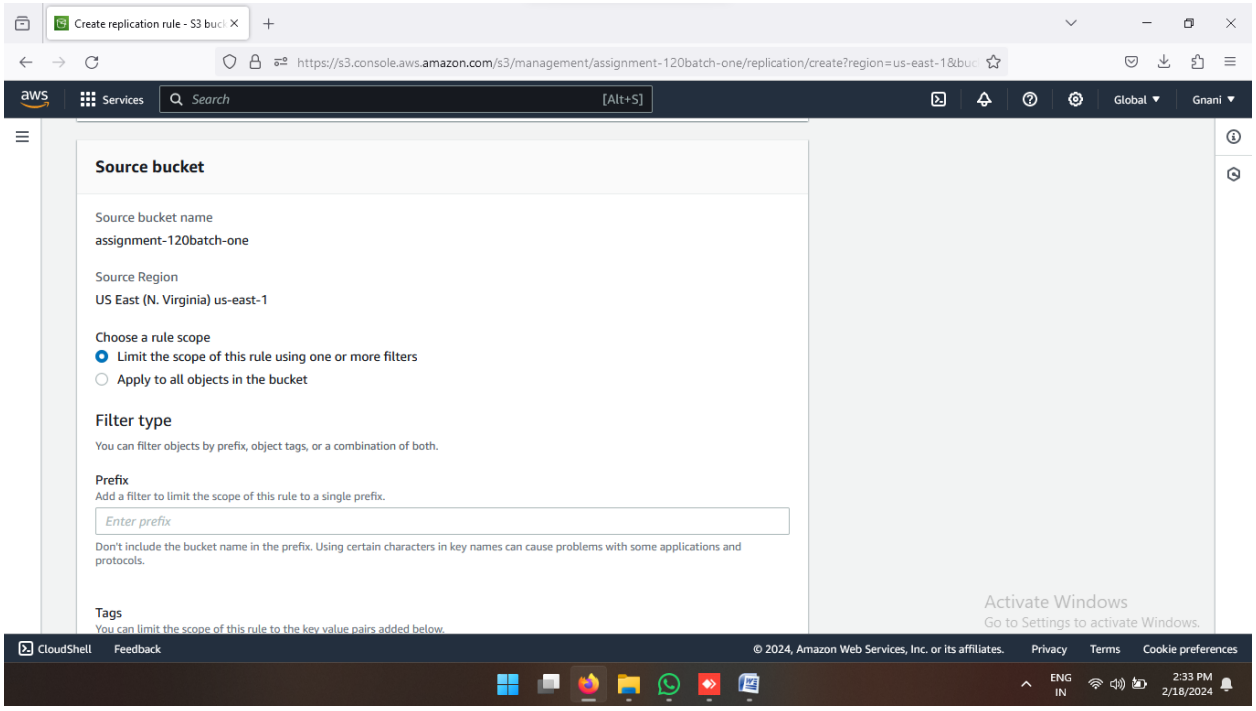
- In Management Console click on create Replication Rule



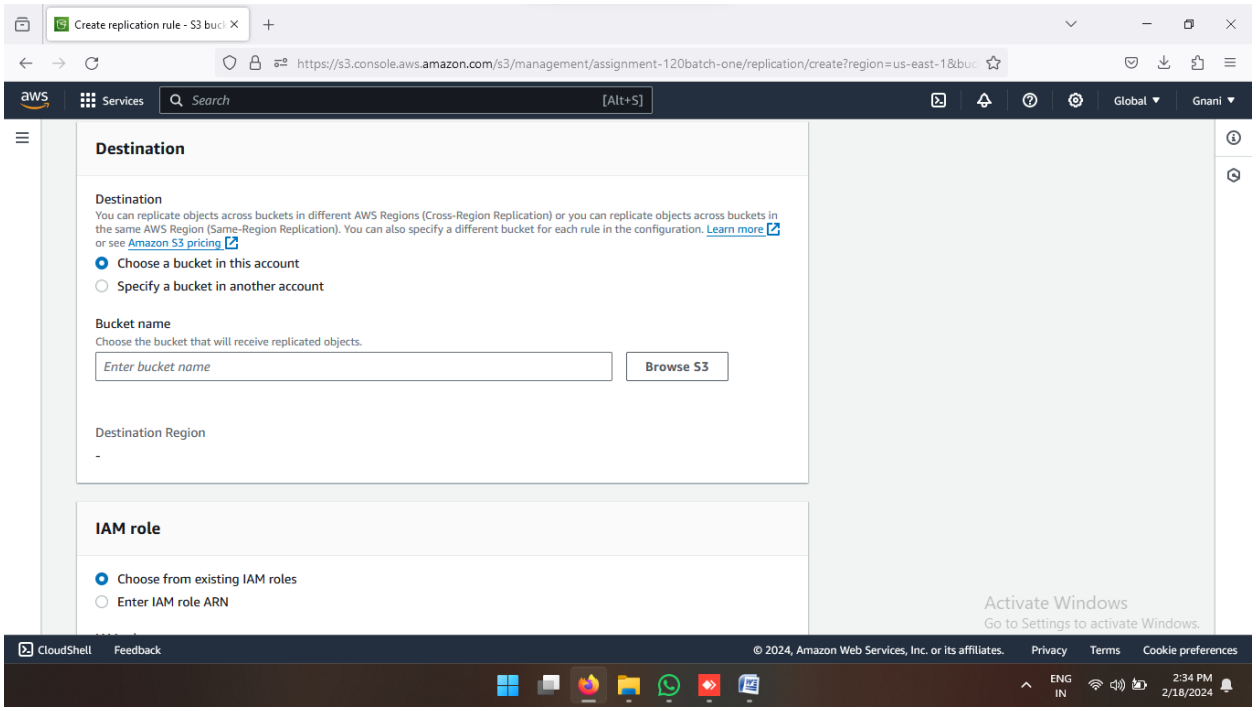
- Enter Replication rule name



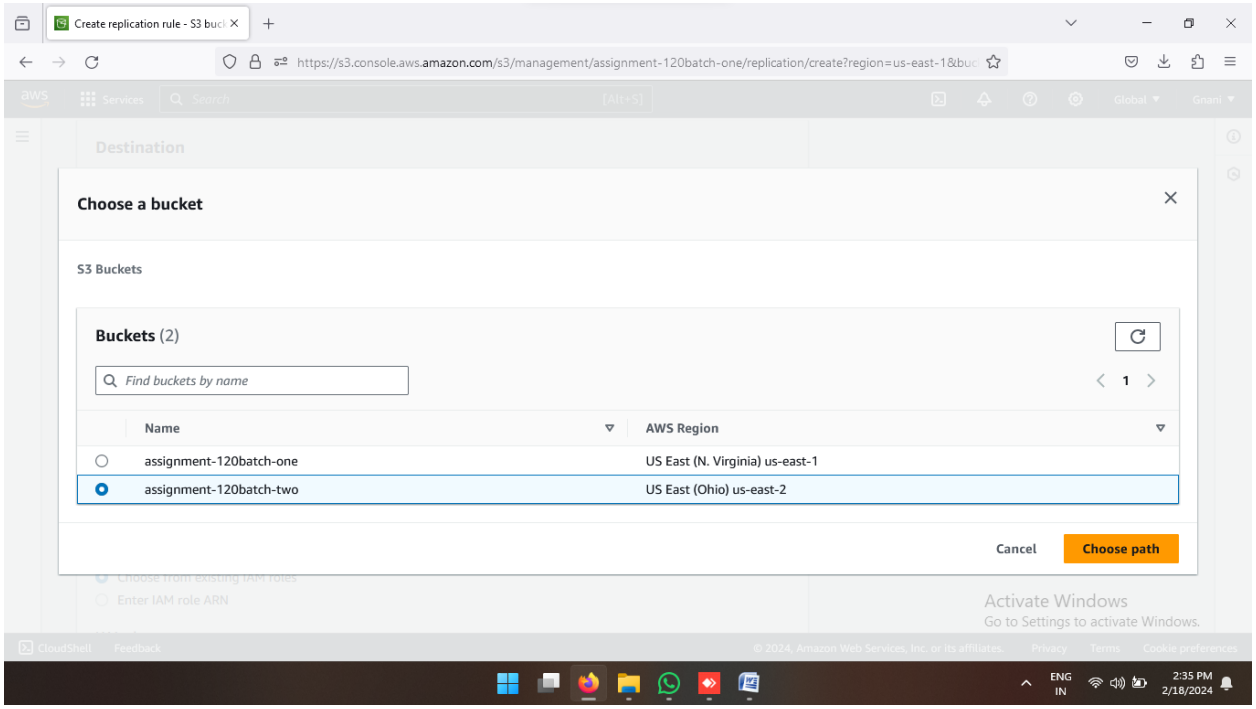
- Click on Apply to all objects in he bucket



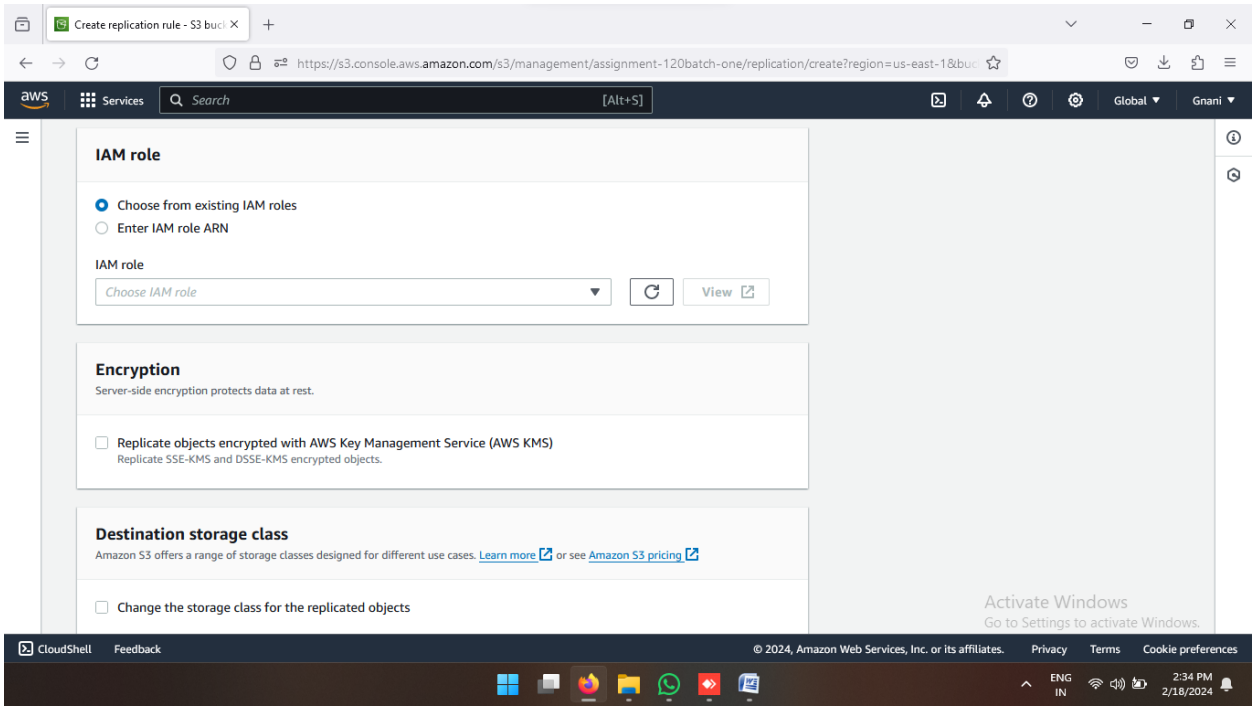
- Now Choose Destination where ever you want to see the data
- Choose a bucket in this account



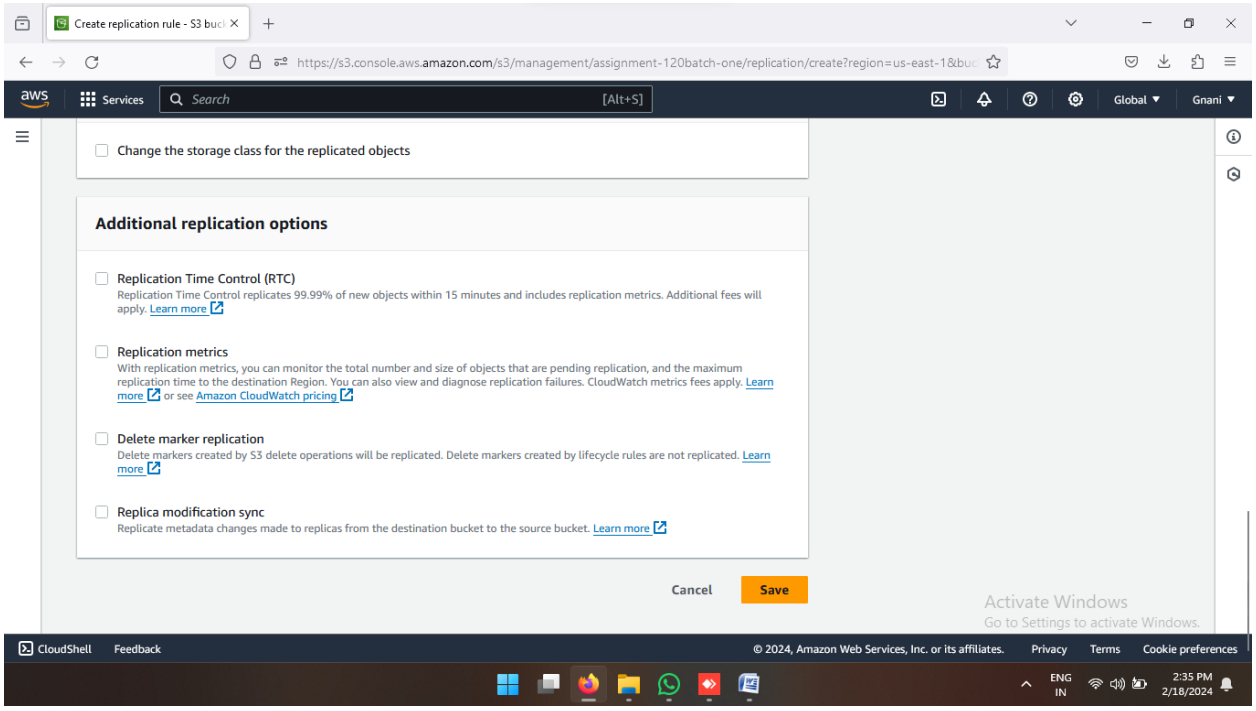
- Select another region Bucket (or) Where ever you want to see the data that bucket select and click on choose path



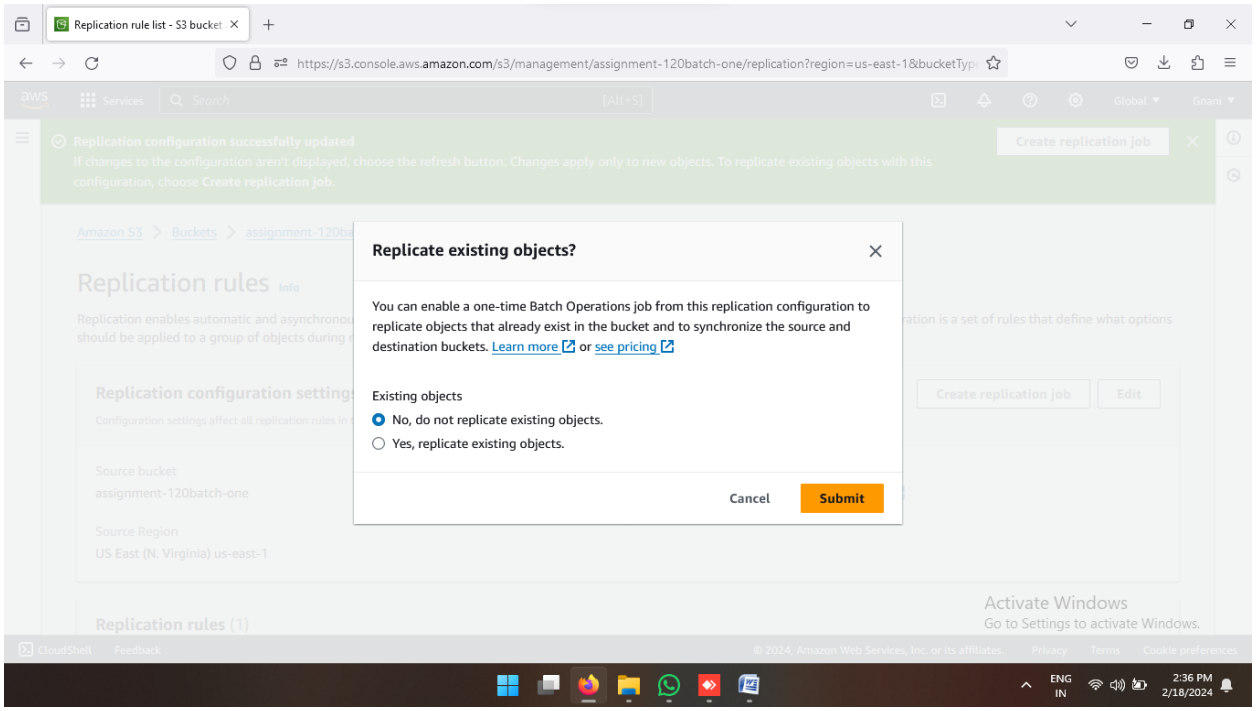
- Now choose from existing IAM roles
- Select Drop down Create a new role



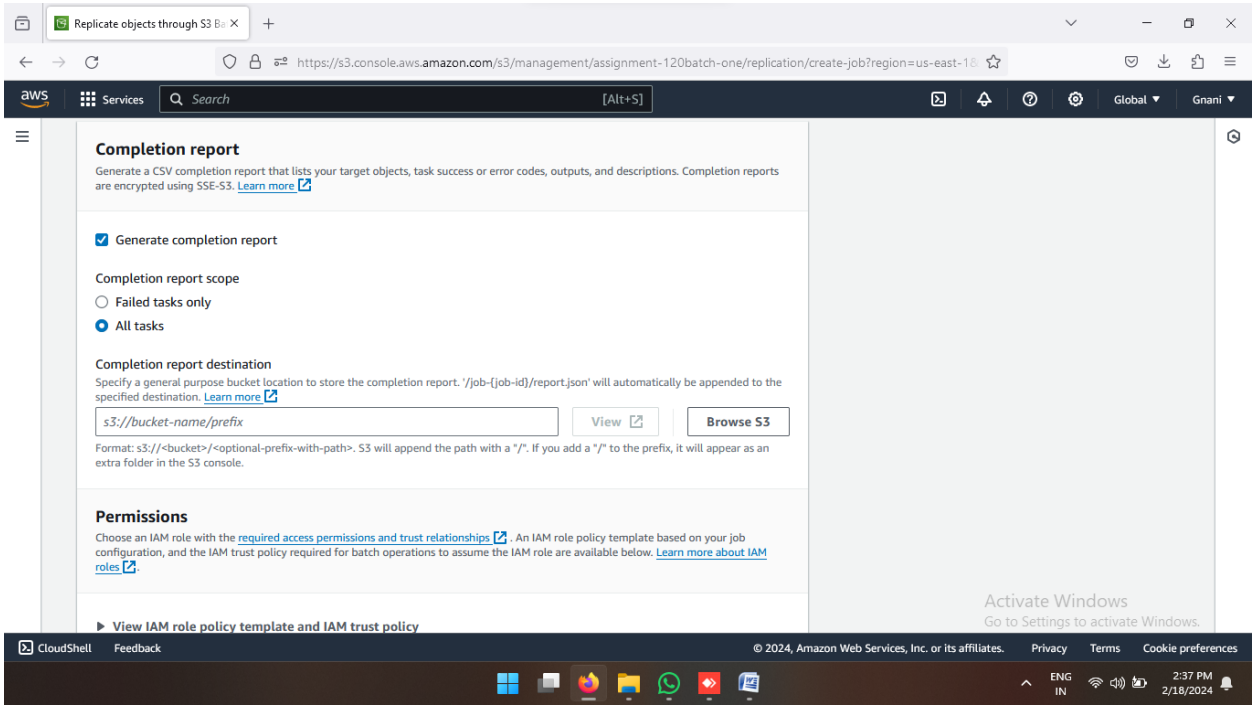
- Then Save the Replication Rule

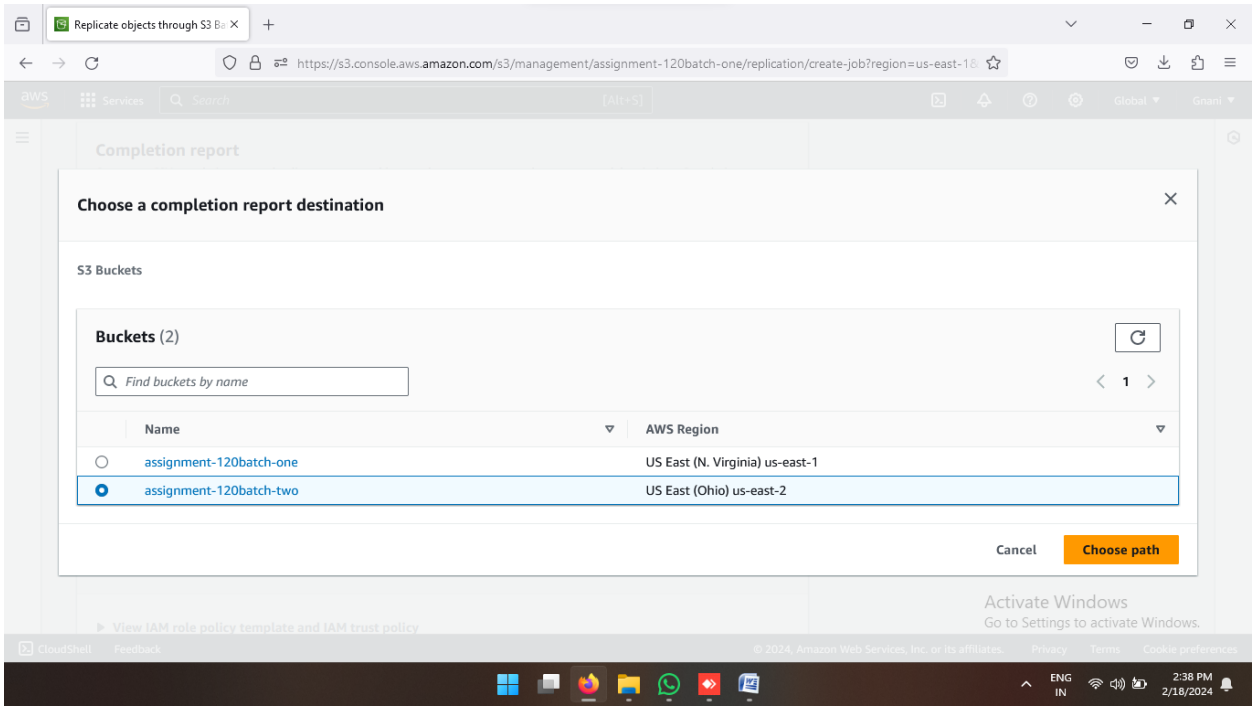


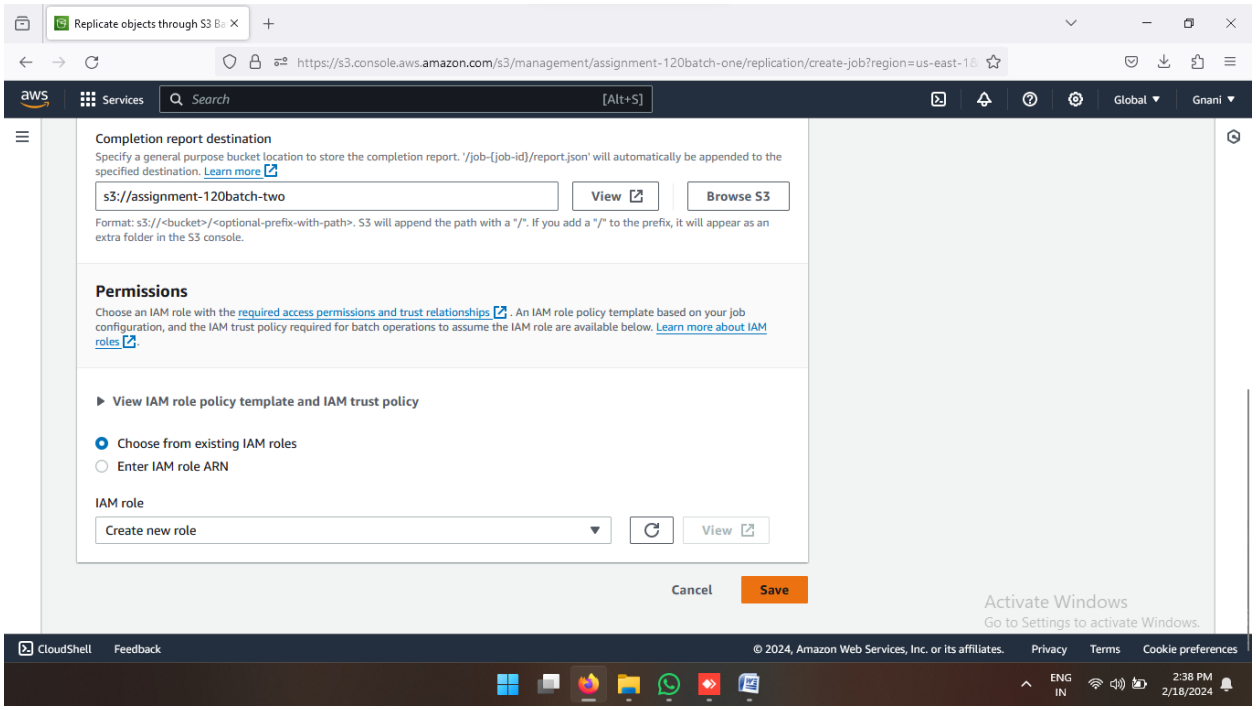
- Now if you want see the existing data then click on Yes
- If you don’t want to see the existing data then click on No then submit



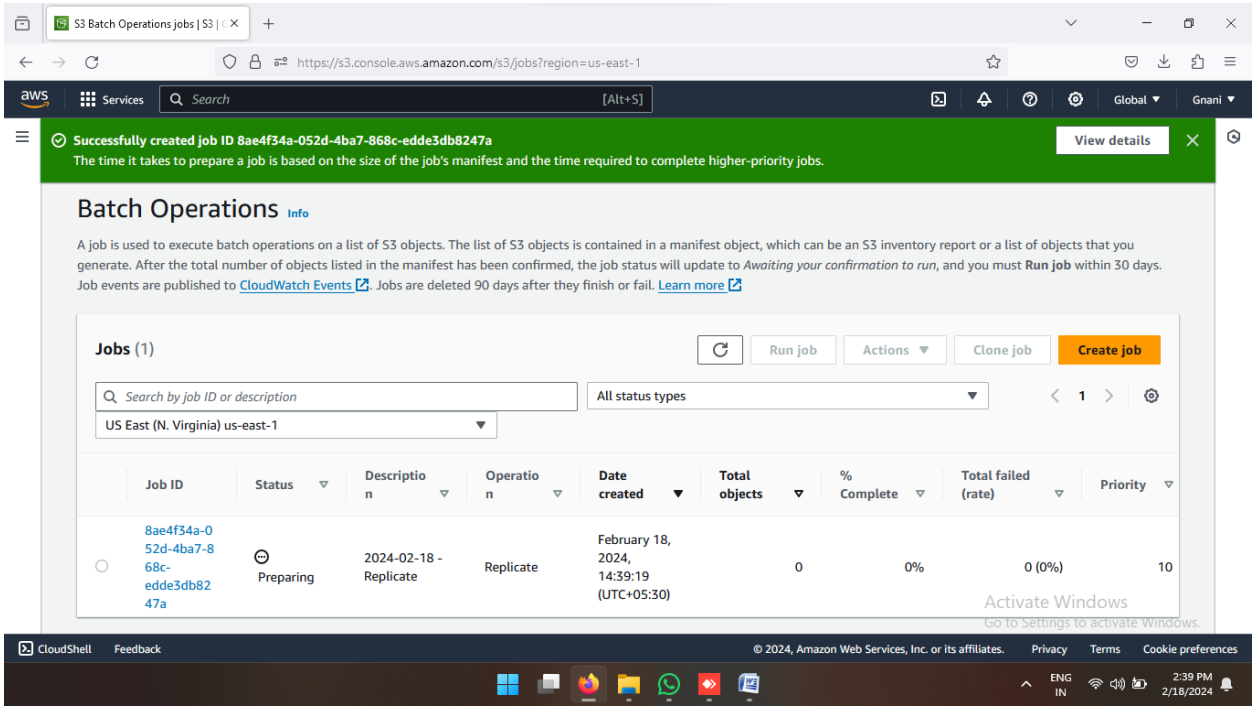
- If You Click yes then choose the destination path again and click on save button

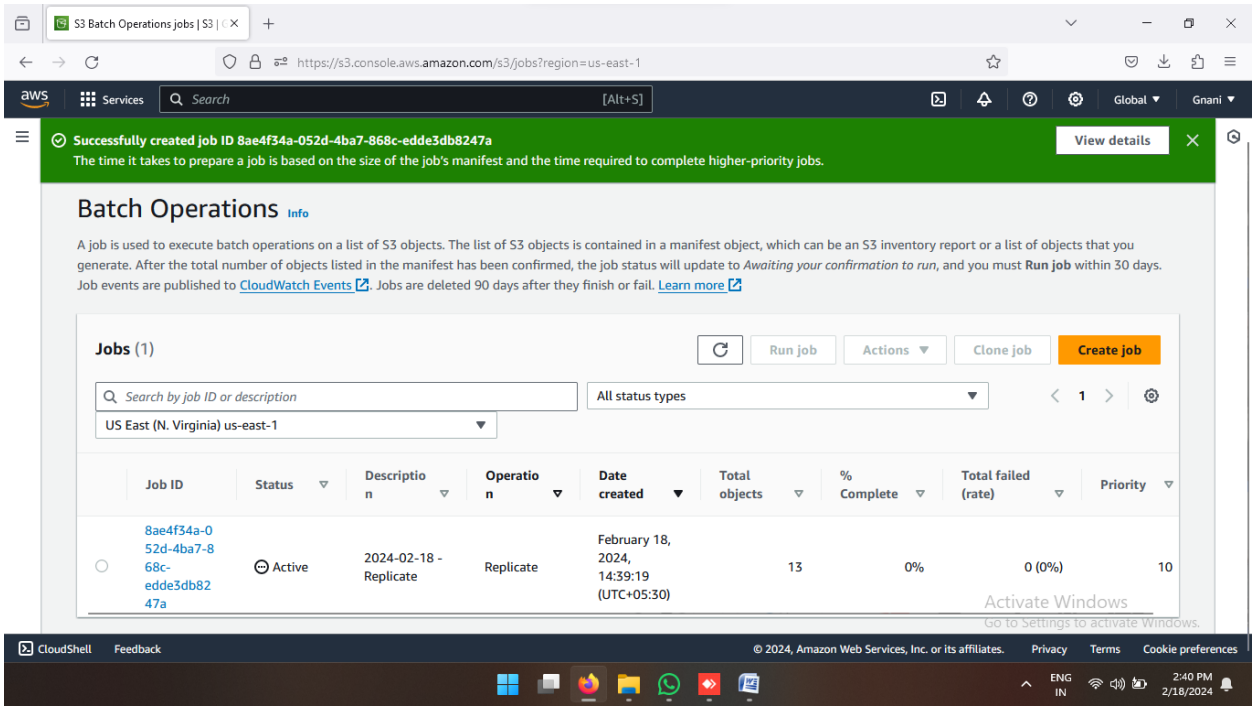




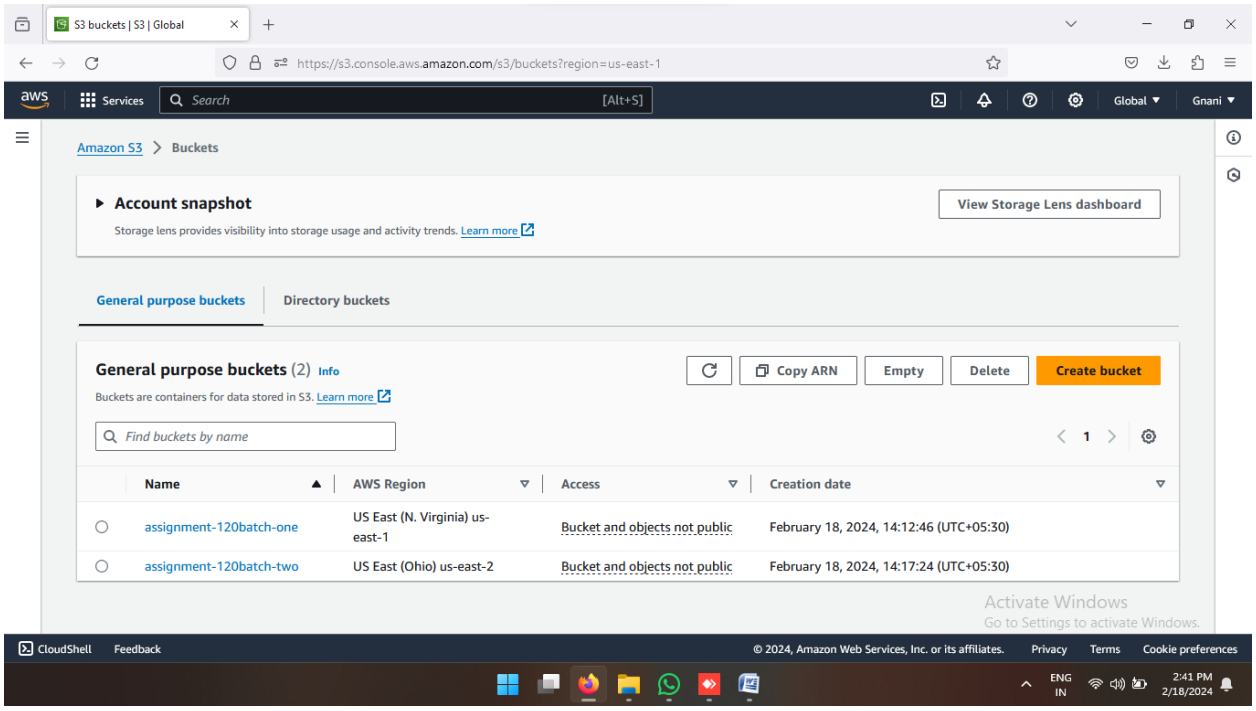


- After Save Button Click then one batch Operation Created that status is showing Preparing.
- Status is changed active then we can see the data into the destination bucket.

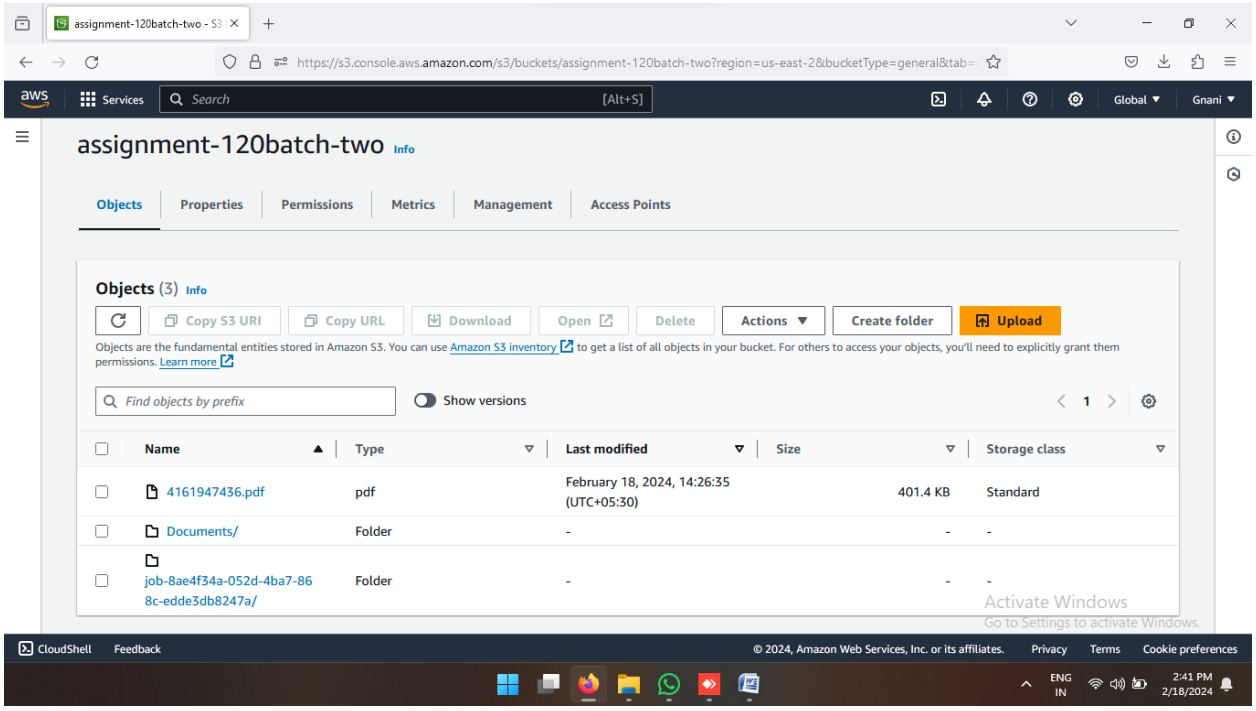




- Whenever Batch Operation Active go to Destination Bucket and see the data.



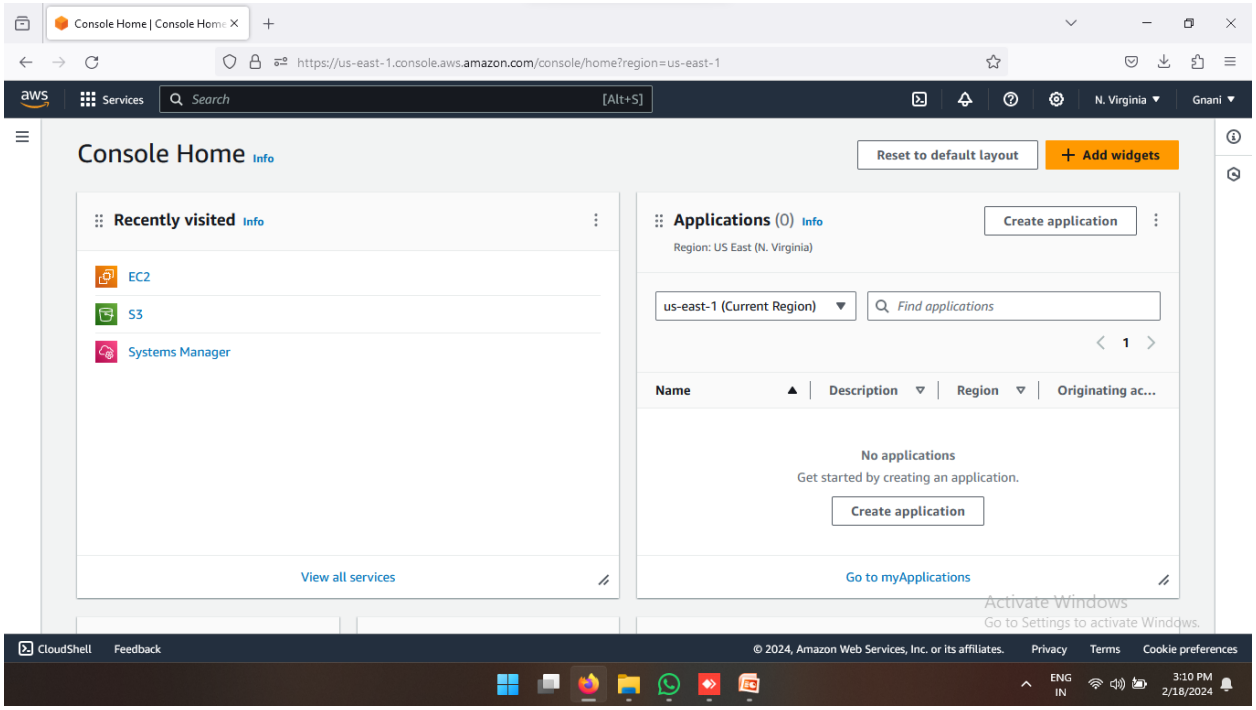
- Now See the data in Destination Bucket.



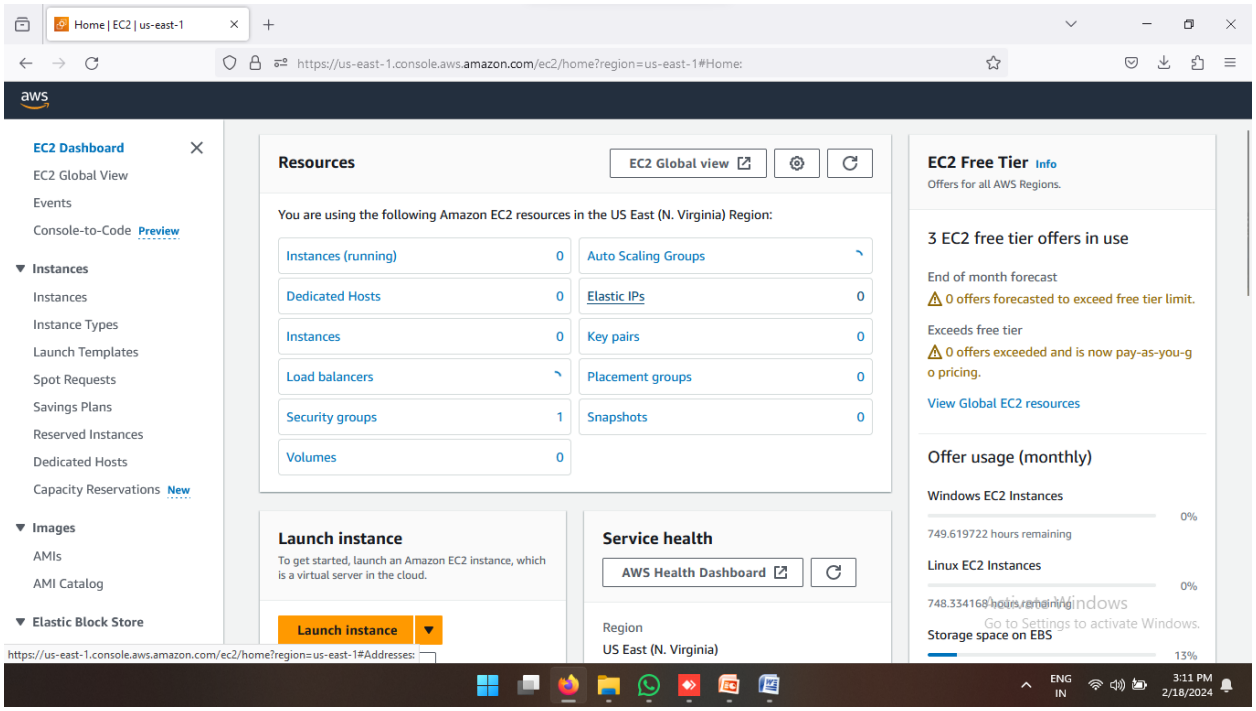
********** * END **********

3) Create ebs and attach volume to an instance and unmount the volume and attach to another instance?

- Go to AWS Console Home and search EC2 and Click on EC2

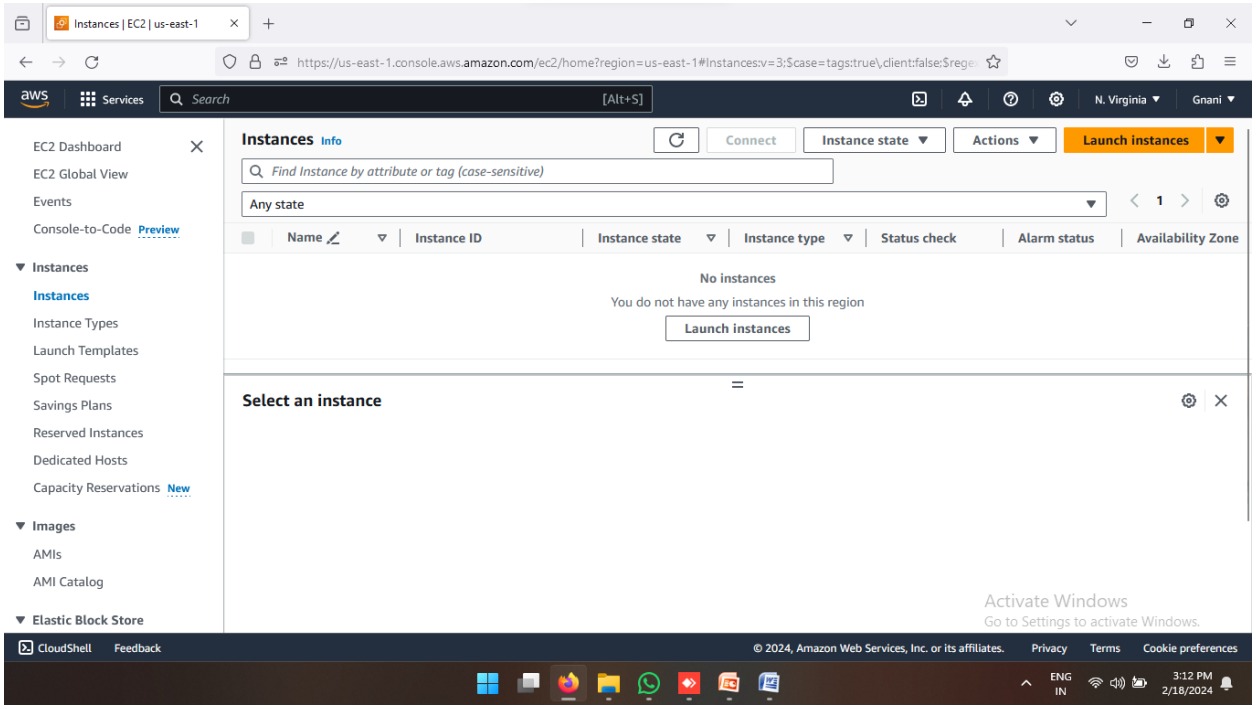


- Now we are in EC2 Dashboard
- Click on Instances

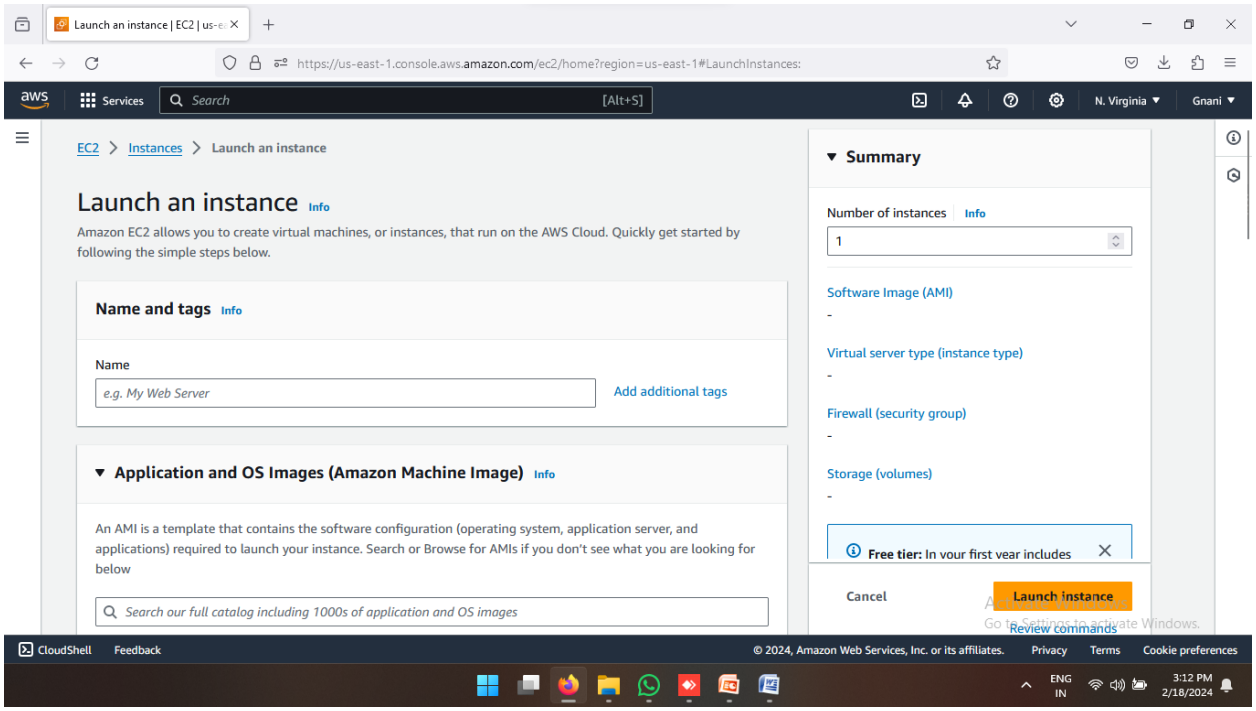


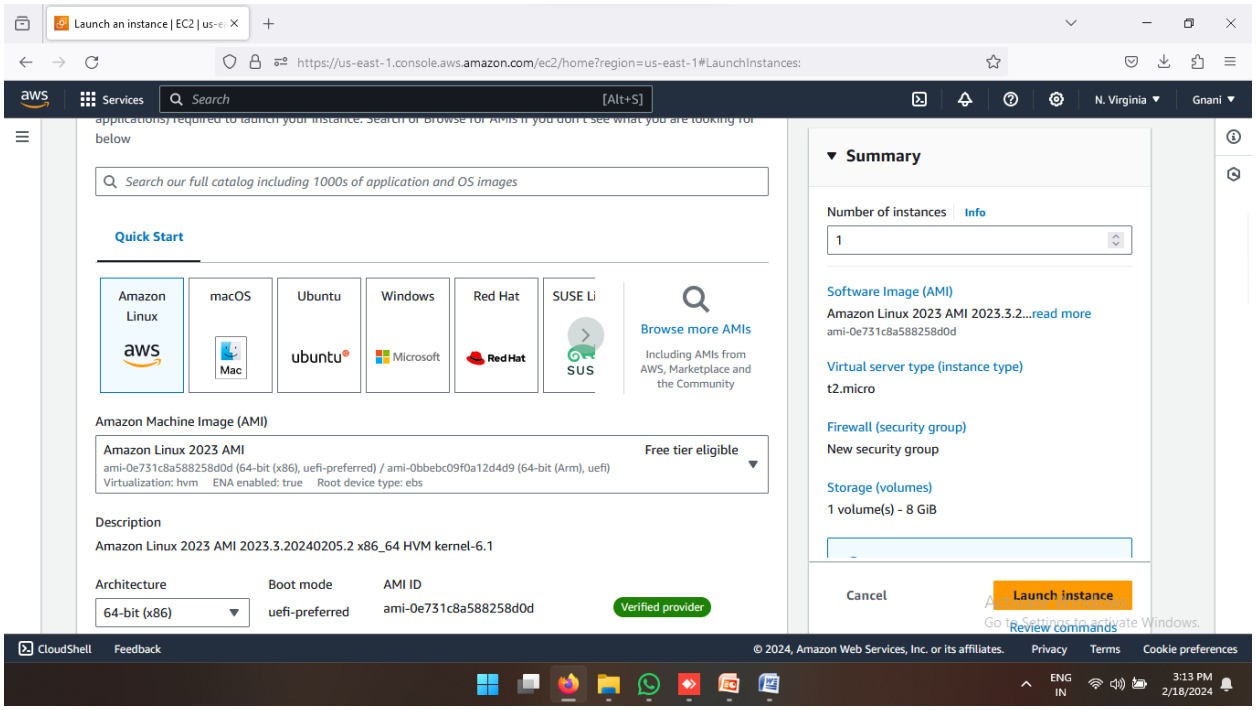
- Now Create One Server in any region

- Click on Launch Instances

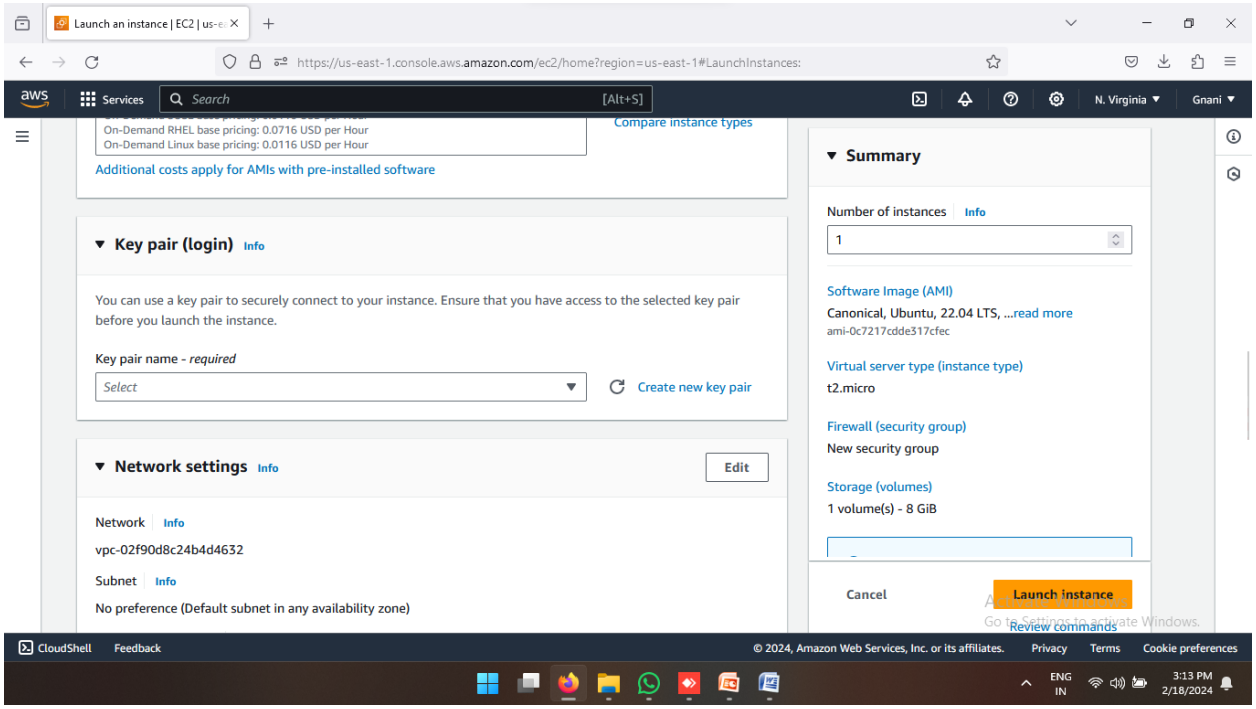


- Enter Name and select operating system

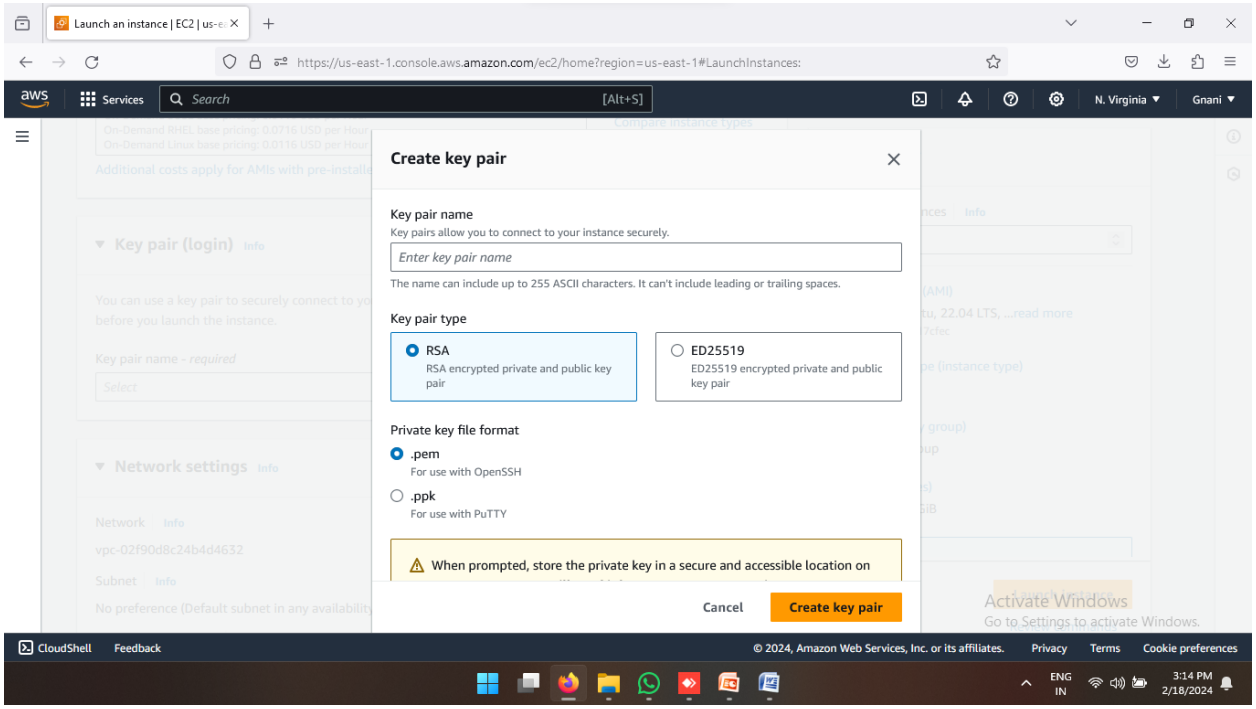




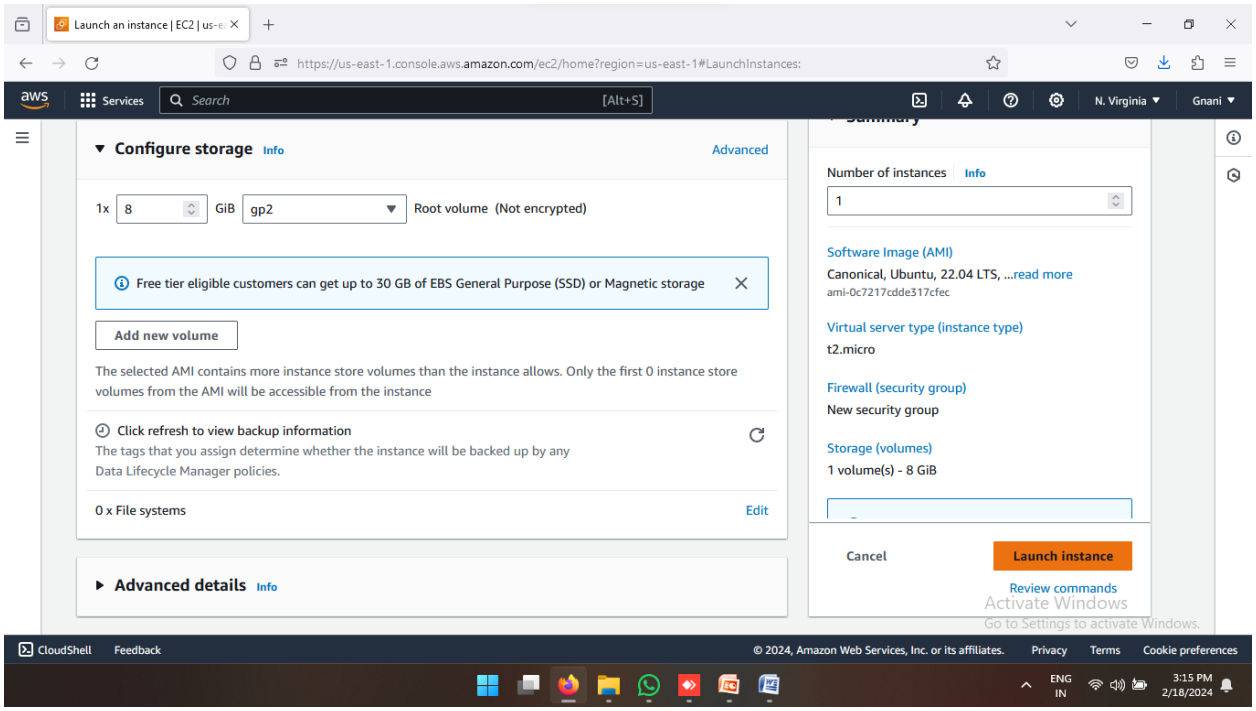
- Now Click a Create new key pair

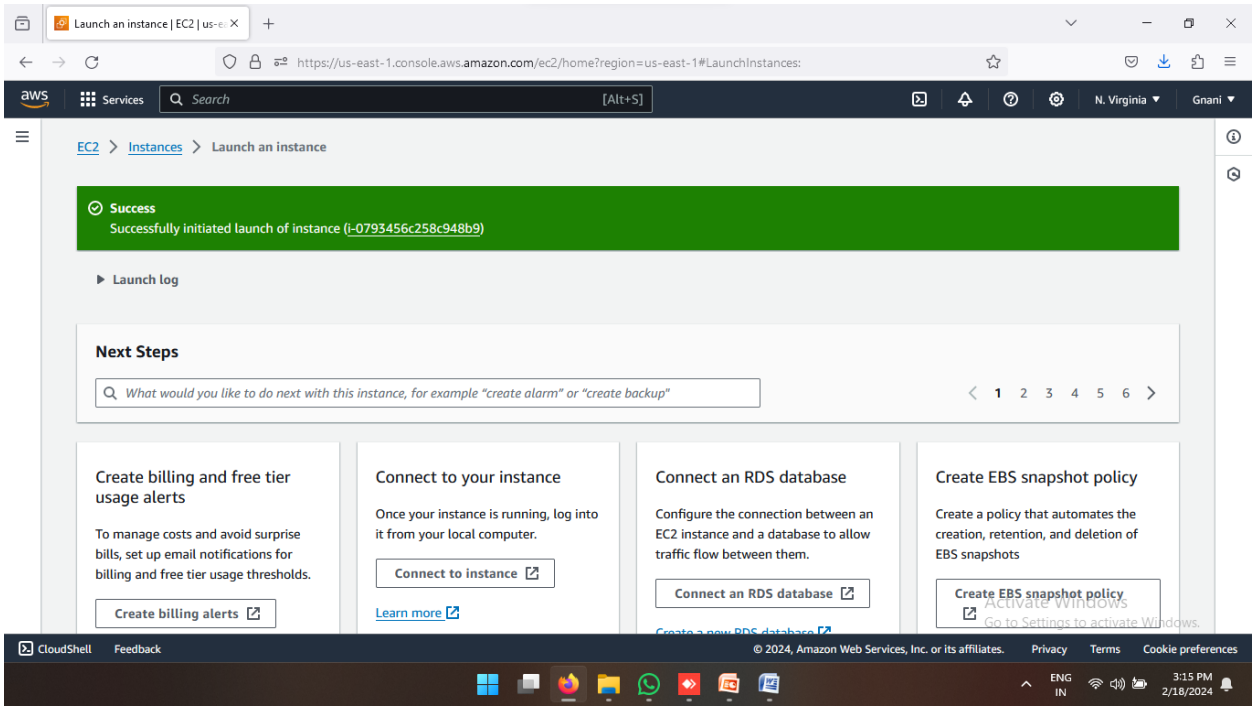


- Enter a key name and click on create key pair

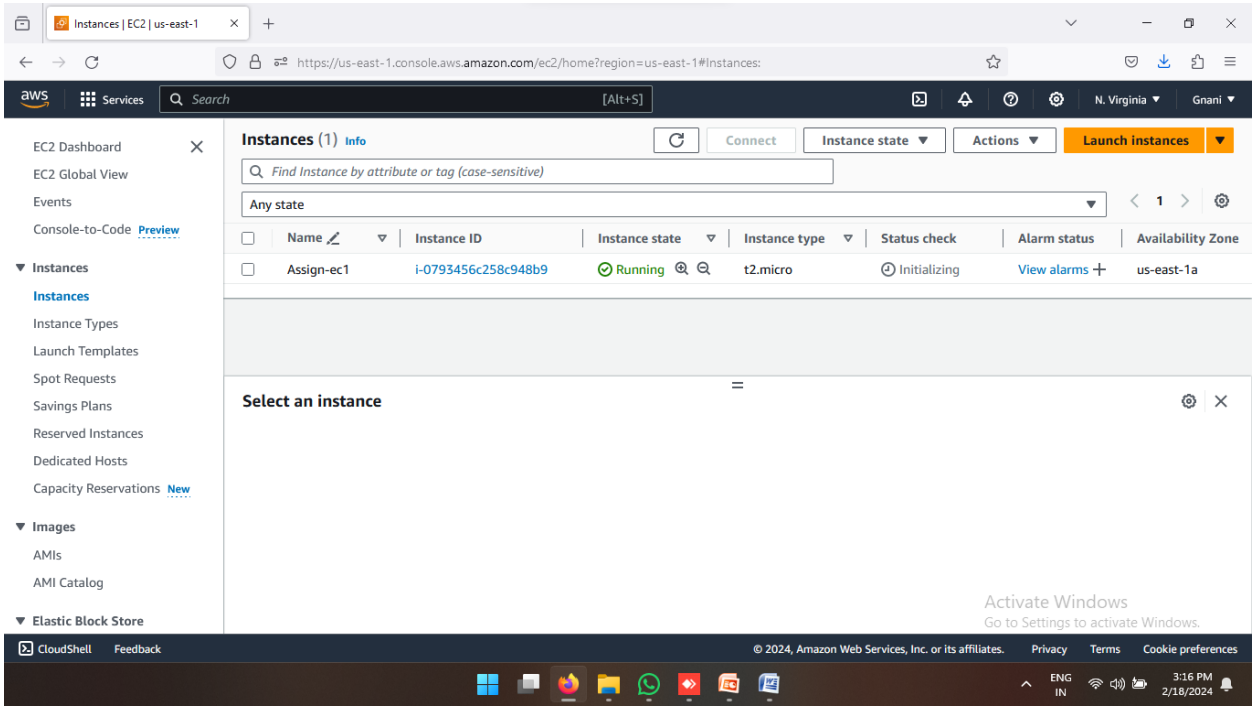


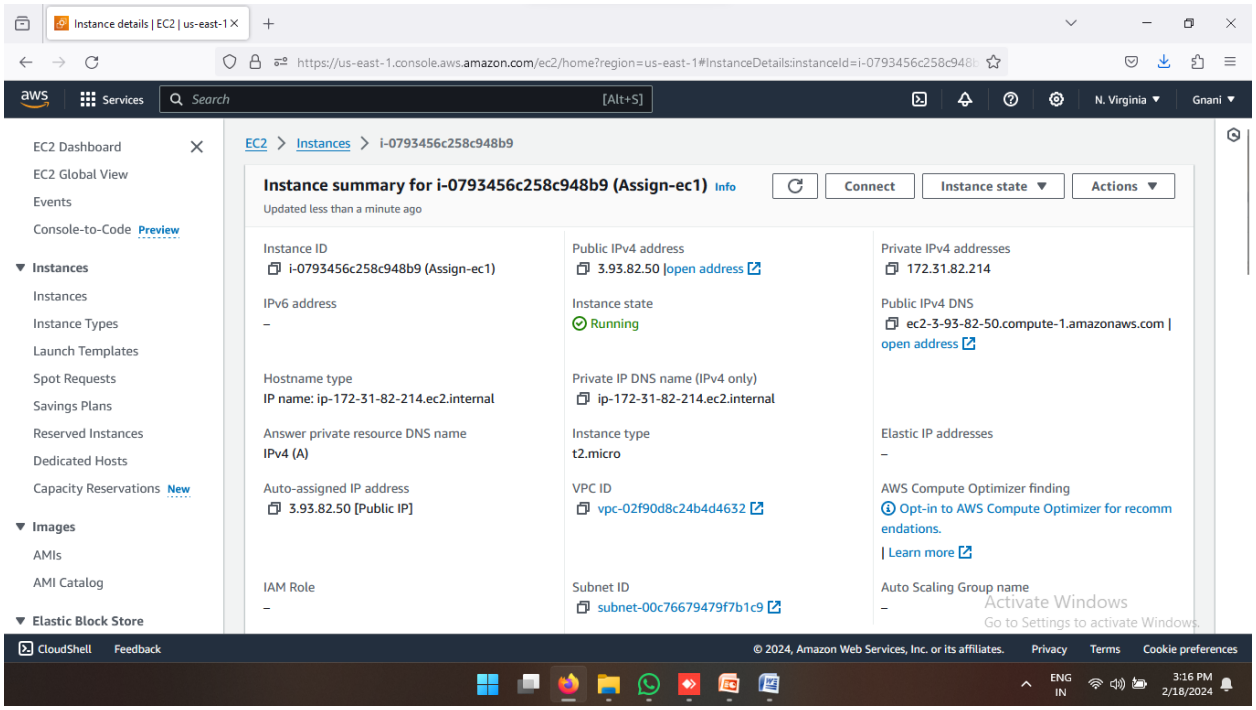
- Now Click on launch instance

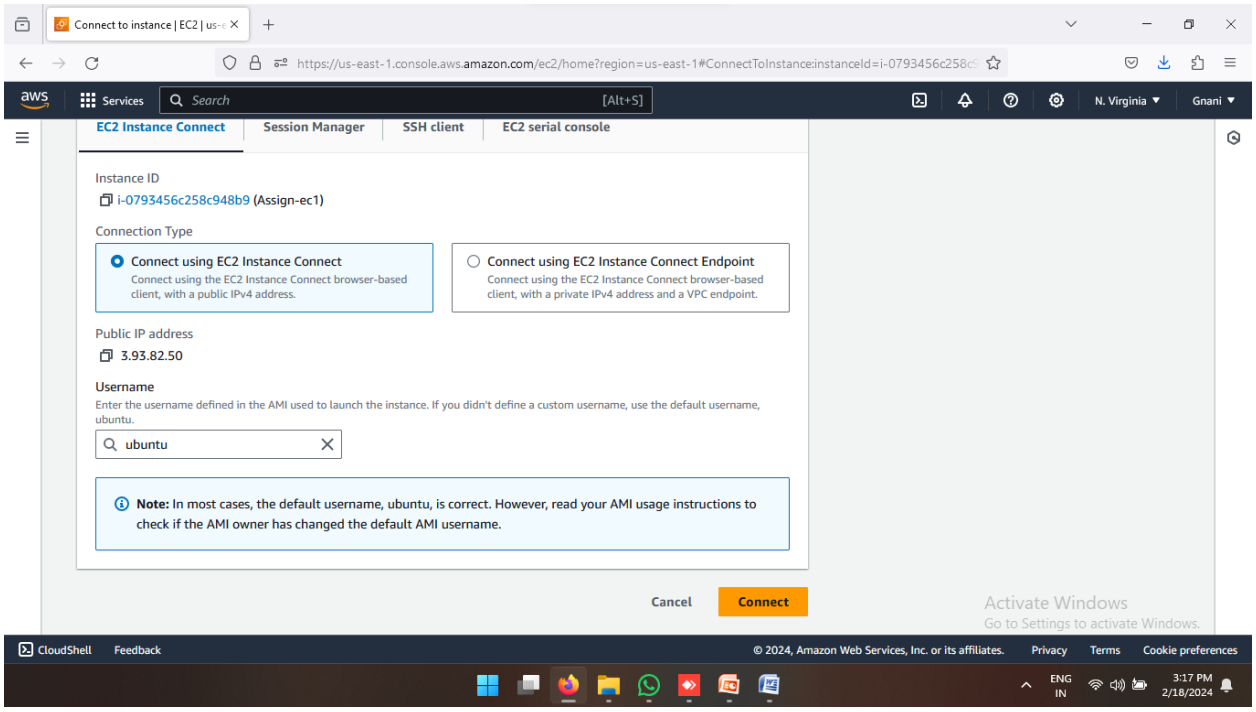




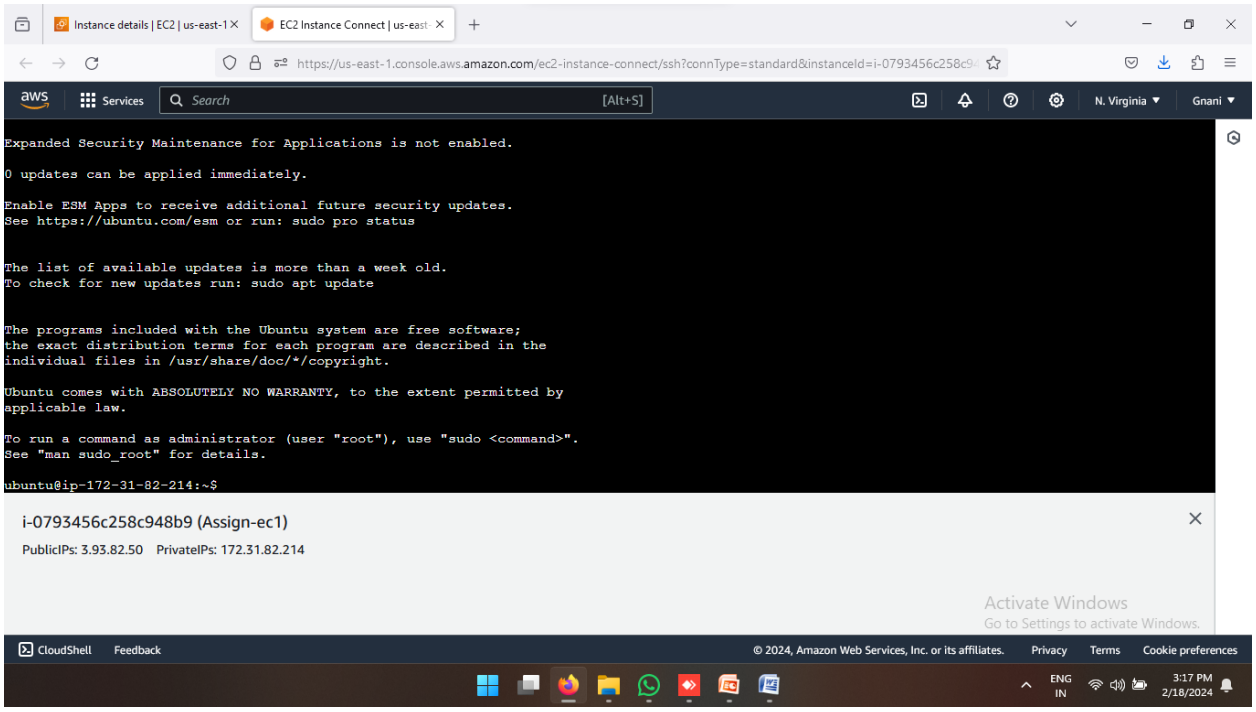
- One server (or) Instance Created and Click on instance id then connect



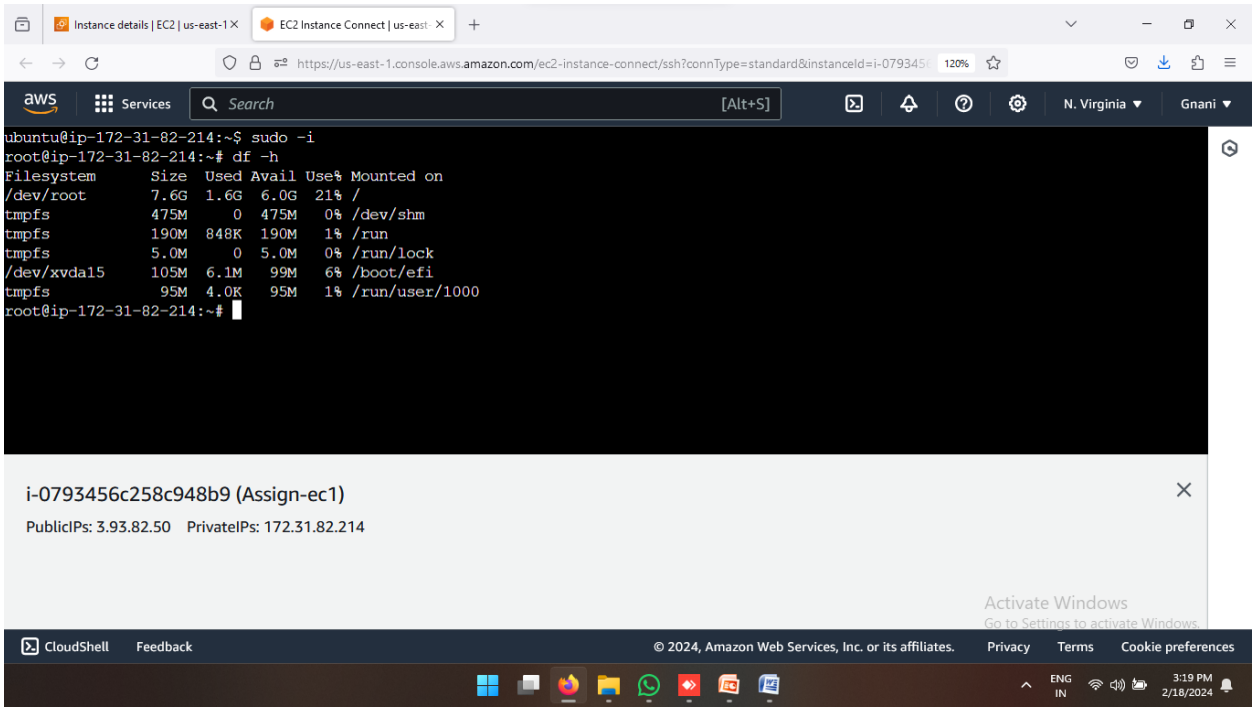

Instance details | EC2 | us-east-1
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-0793456c258c948b9
Services
Search
[Alt+S]
N. Virginia
Gnani
EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
AMI Catalog
Elastic Block Store
EC2 > Instances > i-0793456c258c948b9
Instance summary for i-0793456c258c948b9 (Assign-ec1) Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-0793456c258c948b9 (Assign-ec1)
IPv6 address
–
Hostname type
IP name: ip-172-31-82-214.ec2.internal
Answer private resource DNS name
IPv4 (A)
Auto-assigned IP address
3.93.82.50 [Public IP]
IAM Role
–
Public IPv4 address
3.93.82.50 |open address
Instance state
Running
Private IP DNS name (IPv4 only)
ip-172-31-82-214.ec2.internal
Instance type
t2.micro
VPC ID
vpc-02f90d8c24b4d4632
Subnet ID
subnet-00c76679479f7b1c9
Private IPv4 addresses
172.31.82.214
Public IPv4 DNS
ec2-3-93-82-50.compute-1.amazonaws.com | open address
Elastic IP addresses
–
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations.
| Learn more
Auto Scaling Group name
–
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
ENG
IN
3:16 PM
2/18/2024


Connect to instance | EC2 | us-e
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-0793456c258c9
Services
Search
[Alt+S]
N. Virginia
Gnani
EC2 Instance Connect
Session Manager
SSH client
EC2 serial console
Instance ID
i-0793456c258c948b9 (Assign-ec1)
Connection Type
Connect using EC2 Instance Connect
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.
Connect using EC2 Instance Connect Endpoint
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.
Public IP address
3.93.82.50
Username
Enter the username defined in the AMI used to launch the instance. If you didn't define a custom username, use the default username, ubuntu.
ubuntu
Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.
Cancel
Connect
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
ENG
IN
3:17 PM
2/18/2024

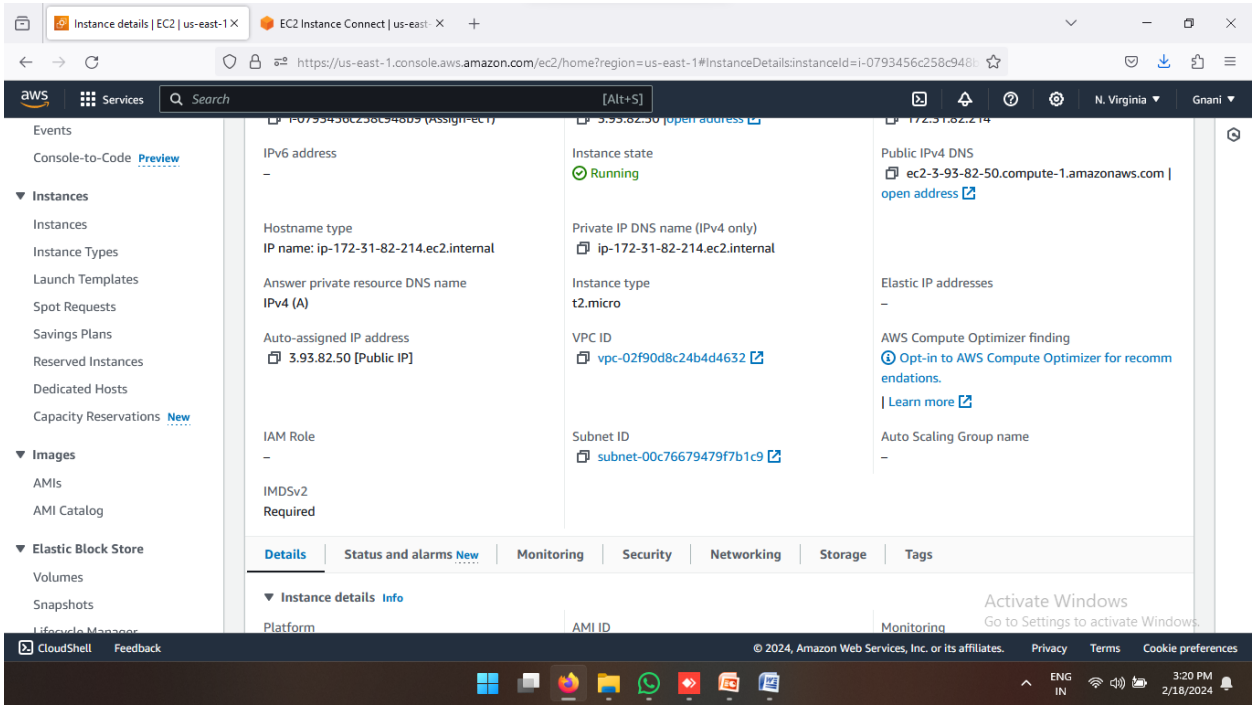
- Now Connected server



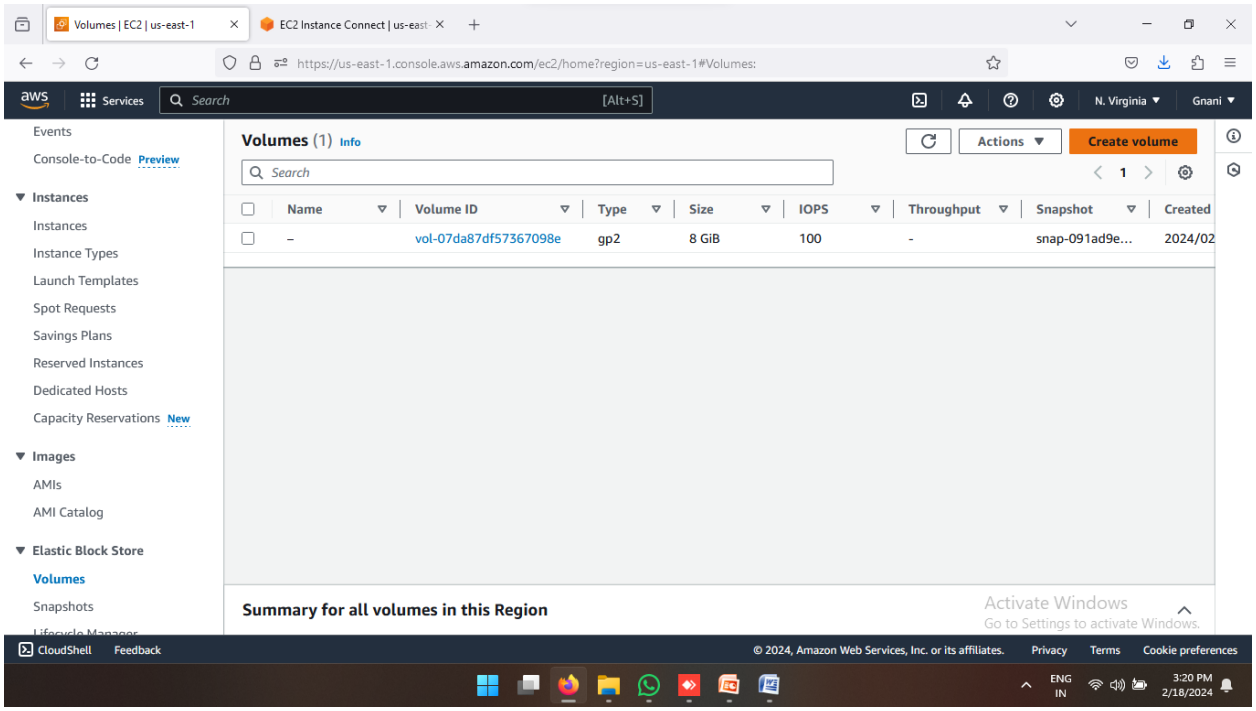
- **<u>df –h</u>** this command check user size



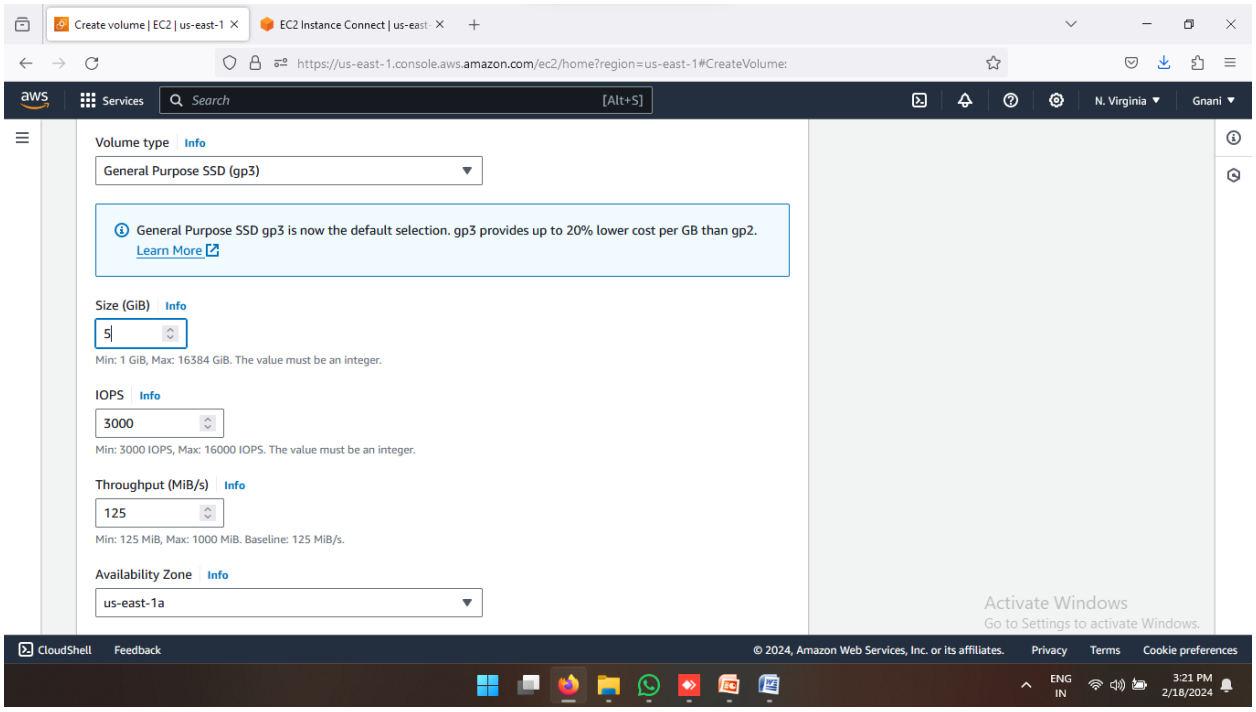
- Now go to ebs then volumes

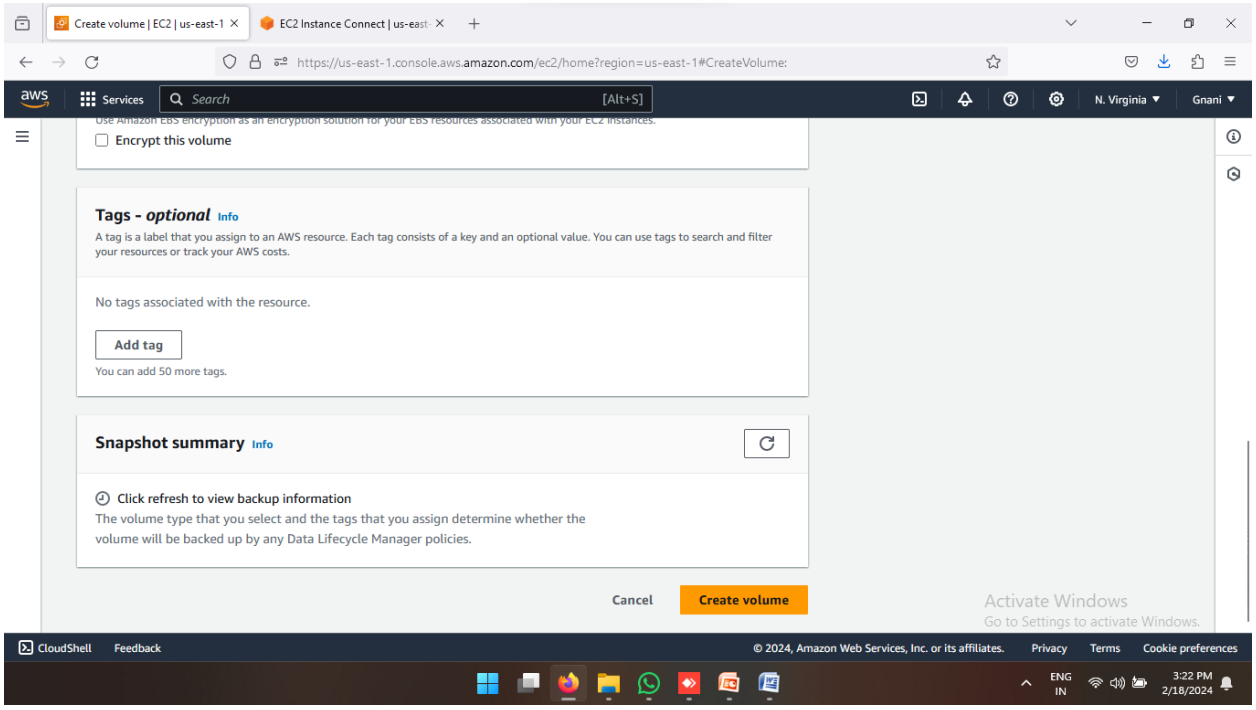


- Click on Create Volume

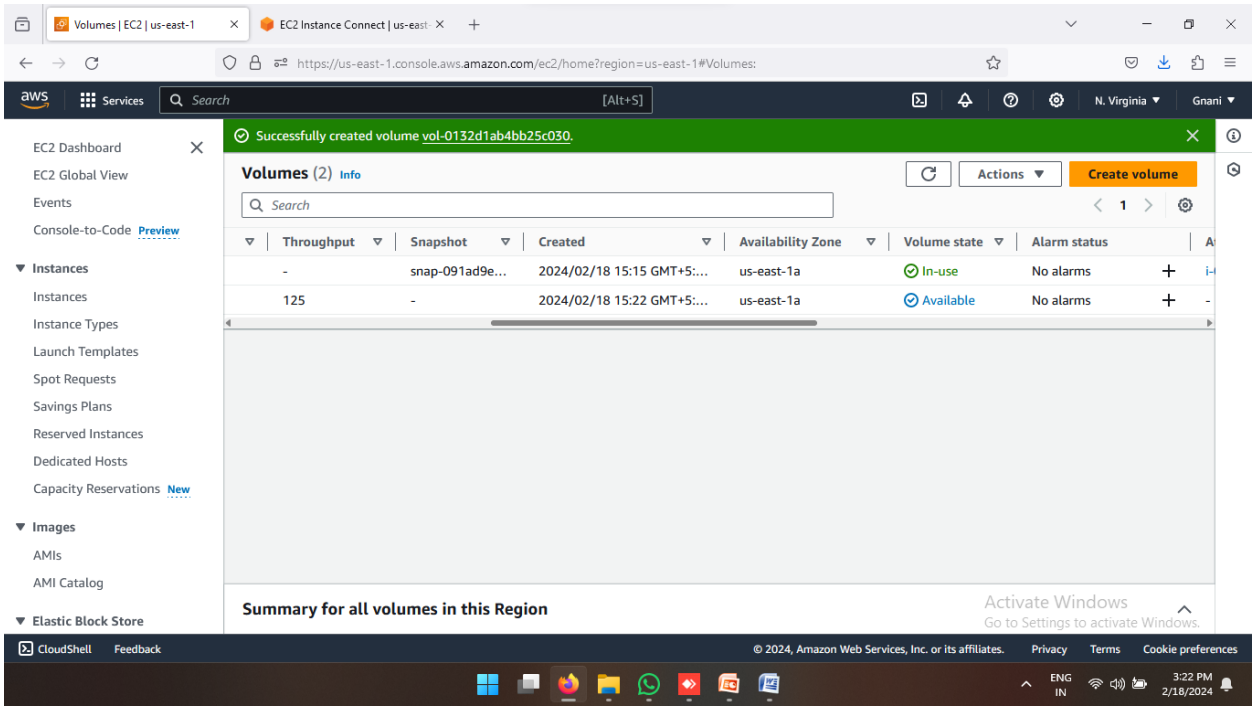


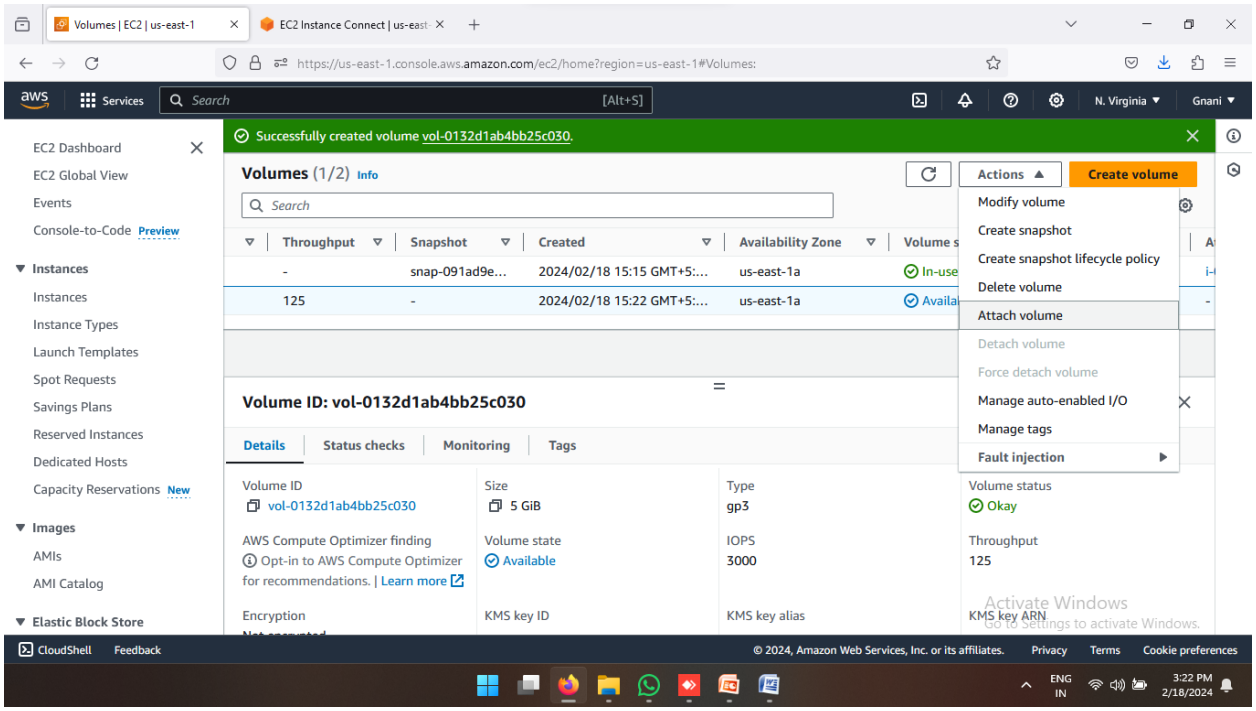
- Enter the size what ever you want then select same availability zone of EC2 then create volume

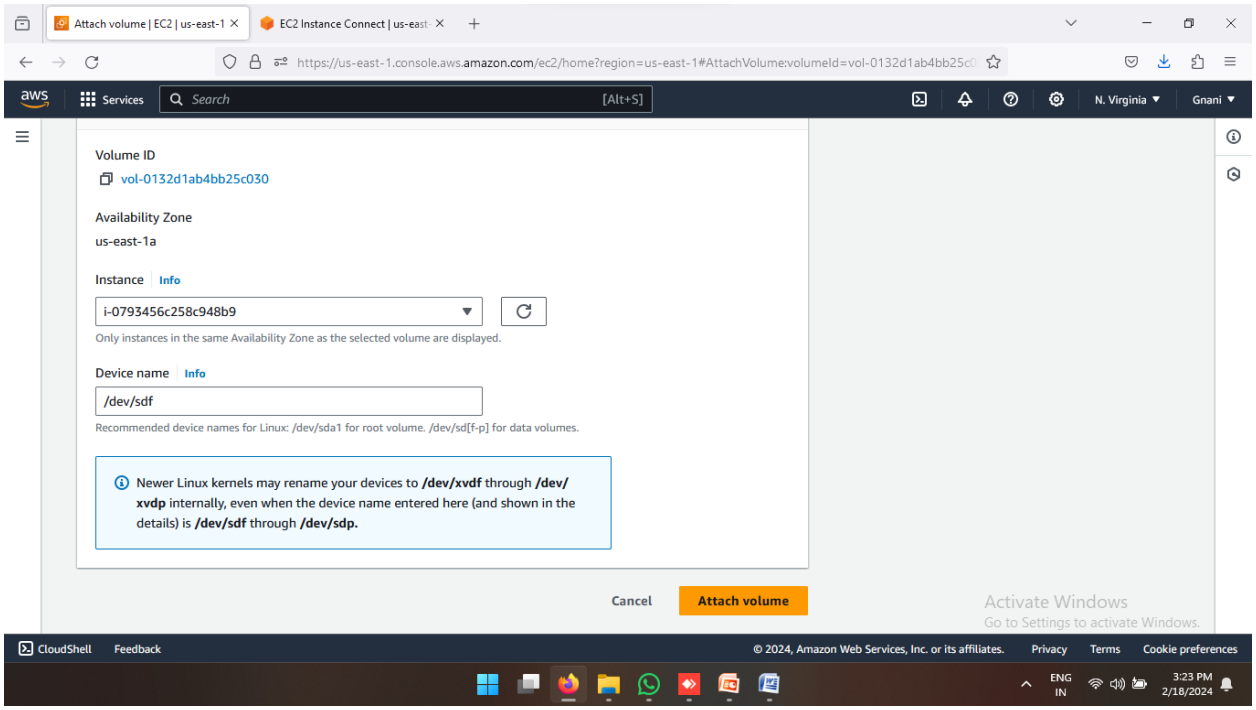


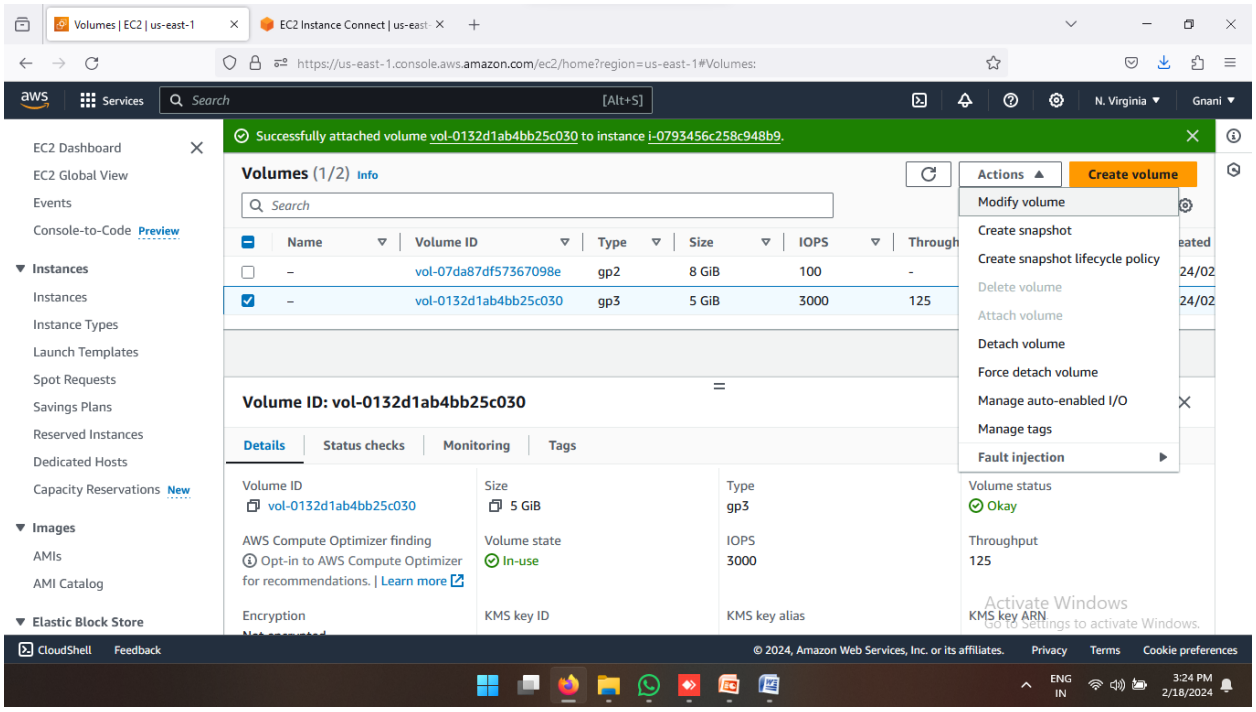


- After Create a volume see the status of created volume it is available state is showing.
- Select that volume and attach volume to our first instance.
- After Attach volume that should be disable. And detach is enable.



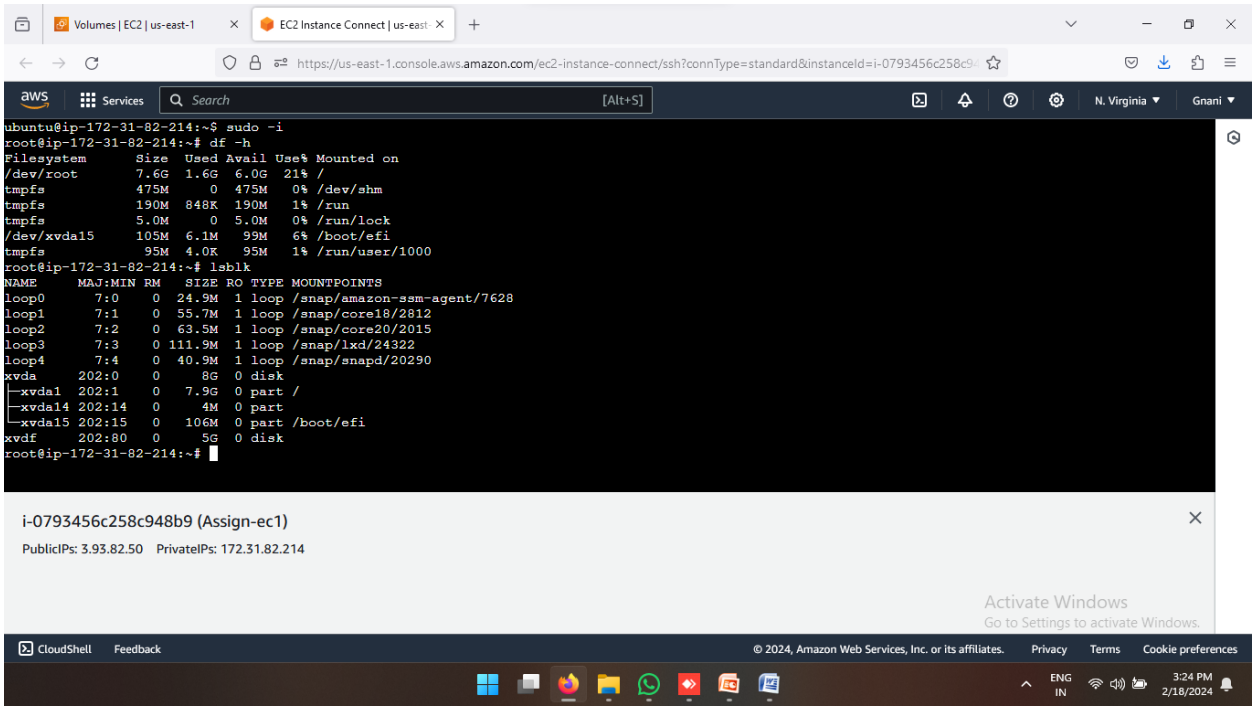




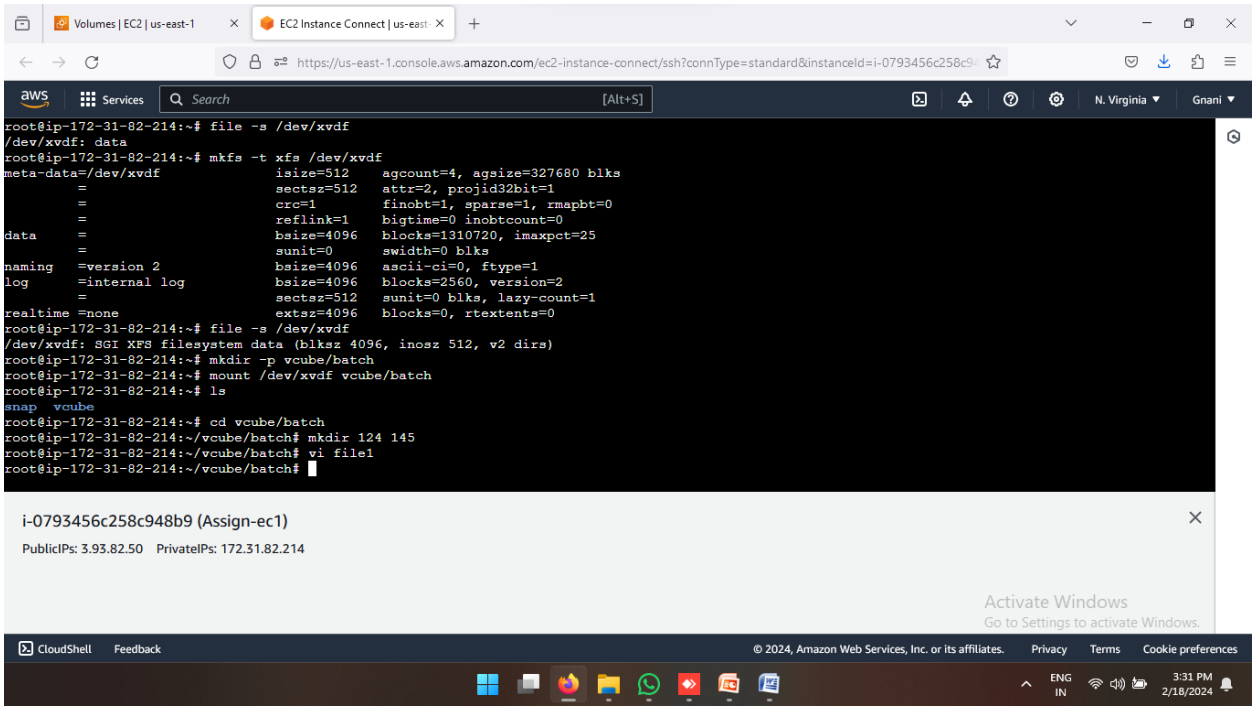


- Now Go to EC2 Connected server

- Enter Command for volume is attached or not
- Command is “**lsblk”**



- First to check file system is there or not then create new File system in volume
- Command is **mkfs –t xfs /dev/xvdf**
- To Check file system created or not command is **file –s /dev/xvdf**
- Create directories and mount the volume to directories
  Command is
  mkdir –p vcube/batch
  mount /dev/xvdf vcube/batch
  cd vcube/batch
  mkdir 124 145
  vi file1
  ls – see the list files and directories
  cd
  umount /dev/xvdf vcube/batch


Volumes | EC2 | us-east-1
EC2 Instance Connect | us-east-
https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0793456c258c94
Services
Search
[Alt+S]
N. Virginia
Gnani
root@ip-172-31-82-214:~# file -s /dev/xvdf
/dev/xvdf: data
root@ip-172-31-82-214:~# mkfs -t xfs /dev/xvdf
meta-data=/dev/xvdf isize=512 agcount=4, agsize=327680 blks
= sectsz=512 attr=2, projid32bit=1
= crc=1 finobt=1, sparse=1, rmapbt=0
= reflink=1 bigtime=0 inobtcount=0
data = bsize=4096 blocks=1310720, imaxpct=25
= sunit=0 swidth=0 blks
naming =version 2 bsize=4096 ascii-ci=0, ftype=1
log =internal log bsize=4096 blocks=2560, version=2
= sectsz=512 sunit=0 blks, lazy-count=1
realtime =none extsz=4096 blocks=0, rtextents=0
root@ip-172-31-82-214:~# file -s /dev/xvdf
/dev/xvdf: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
root@ip-172-31-82-214:~# mkdir -p vcube/batch
root@ip-172-31-82-214:~# mount /dev/xvdf vcube/batch
root@ip-172-31-82-214:~# ls
snap vcube
root@ip-172-31-82-214:~# cd vcube/batch
root@ip-172-31-82-214:~/vcube/batch# mkdir 124 145
root@ip-172-31-82-214:~/vcube/batch# vi file1
root@ip-172-31-82-214:~/vcube/batch#
i-0793456c258c948b9 (Assign-ec1)
PublicIPs: 3.93.82.50 PrivateIPs: 172.31.82.214
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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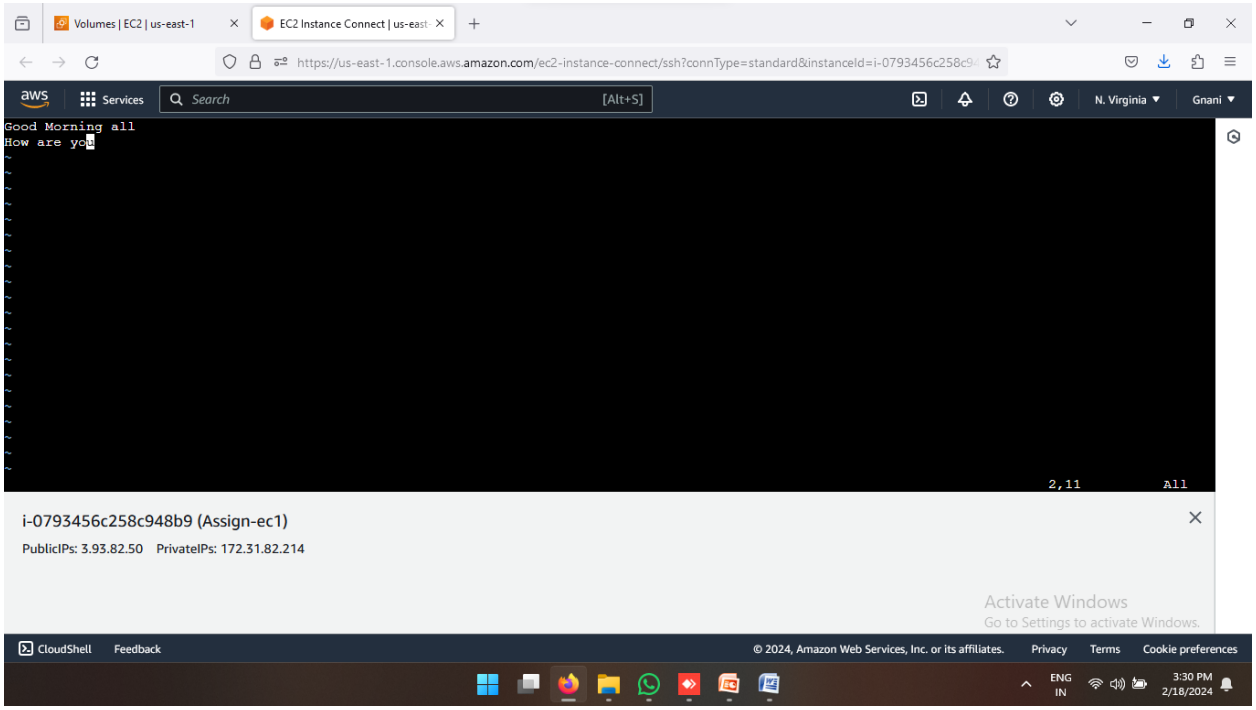
ENG
IN
3:31 PM
2/18/2024


Volumes | EC2 | us-east-1
EC2 Instance Connect | us-east-
https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0793456c258c94
Services
Search
[Alt+S]
N. Virginia
Gnani
Good Morning all
How are yo
2,11 All
i-0793456c258c948b9 (Assign-ec1)
PublicIPs: 3.93.82.50 PrivateIPs: 172.31.82.214
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IN
3:30 PM
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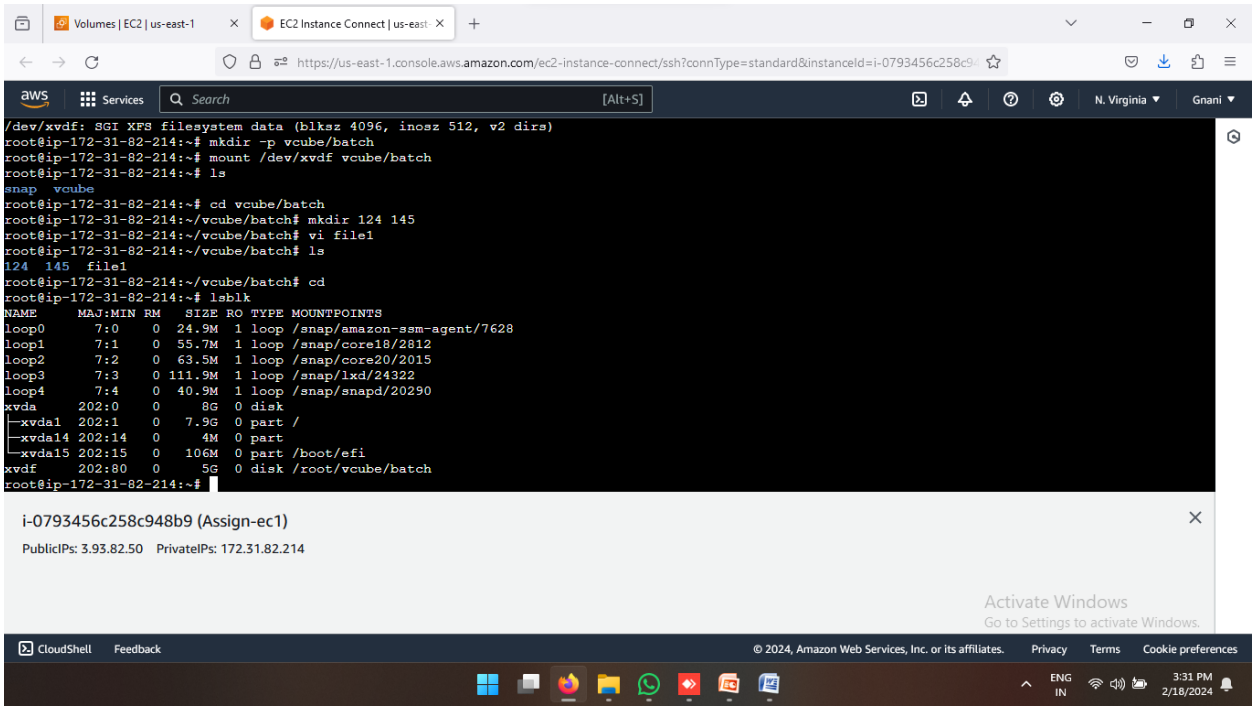
Volumes | EC2 | us-east-1
EC2 Instance Connect | us-east-
https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0793456c258c94
Services
Search
[Alt+S]
N. Virginia
Gnani
/dev/xvdf: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
root@ip-172-31-82-214:~# mkdir -p vcube/batch
root@ip-172-31-82-214:~# mount /dev/xvdf vcube/batch
root@ip-172-31-82-214:~# ls
snap vcube
root@ip-172-31-82-214:~# cd vcube/batch
root@ip-172-31-82-214:~/vcube/batch# mkdir 124 145
root@ip-172-31-82-214:~/vcube/batch# vi file1
root@ip-172-31-82-214:~/vcube/batch# ls
124 145 file1
root@ip-172-31-82-214:~/vcube/batch# cd
root@ip-172-31-82-214:~# lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
loop0 7:0 0 24.9M 1 loop /snap/amazon-ssm-agent/7628
loop1 7:1 0 55.7M 1 loop /snap/core18/2812
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 40.9M 1 loop /snap/snapd/20290
xvda 202:0 0 8G 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
xvdf 202:80 0 5G 0 disk /root/vcube/batch
root@ip-172-31-82-214:~#
i-0793456c258c948b9 (Assign-ec1)
PublicIPs: 3.93.82.50 PrivateIPs: 172.31.82.214
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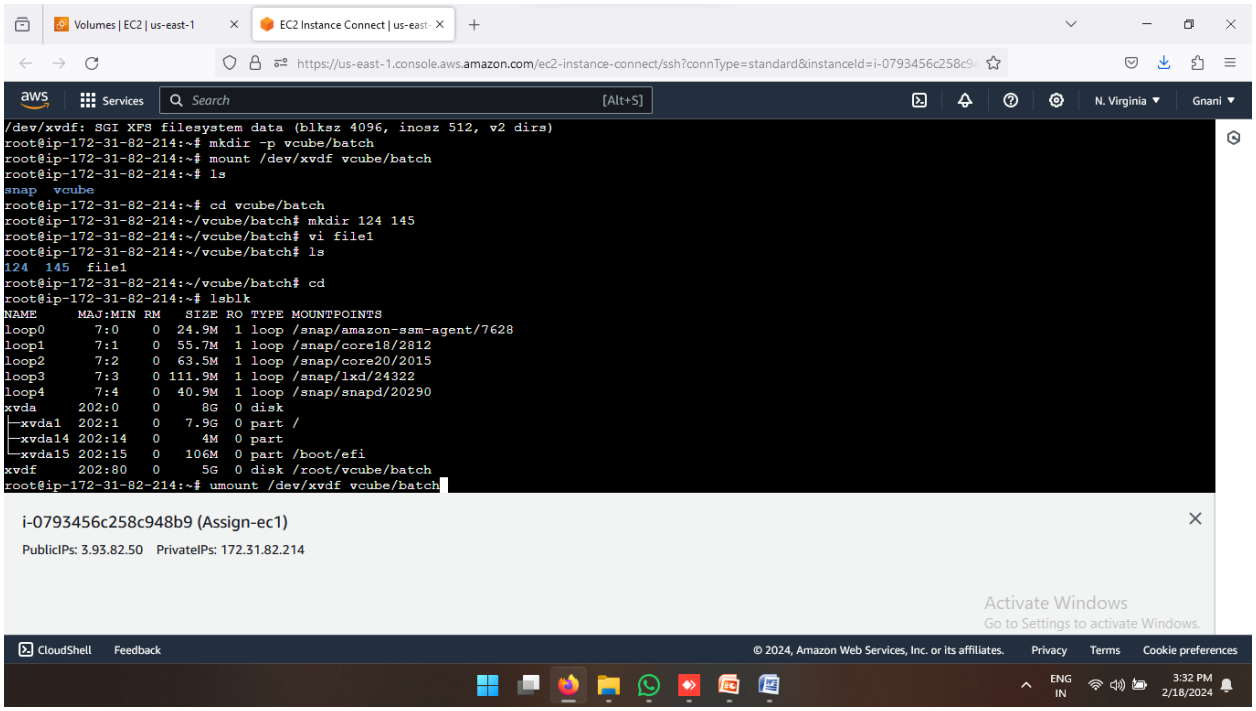
Volumes | EC2 | us-east-1
EC2 Instance Connect | us-east-
https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0793456c258c94
Services
Search
[Alt+S]
N. Virginia
Gnani
/dev/xvdf: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
root@ip-172-31-82-214:~# mkdir -p vcube/batch
root@ip-172-31-82-214:~# mount /dev/xvdf vcube/batch
root@ip-172-31-82-214:~# ls
snap vcube
root@ip-172-31-82-214:~# cd vcube/batch
root@ip-172-31-82-214:~/vcube/batch# mkdir 124 145
root@ip-172-31-82-214:~/vcube/batch# vi file1
root@ip-172-31-82-214:~/vcube/batch# ls
124 145 file1
root@ip-172-31-82-214:~/vcube/batch# cd
root@ip-172-31-82-214:~# lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINTS
loop0 7:0 0 24.9M 1 loop /snap/amazon-ssm-agent/7628
loop1 7:1 0 55.7M 1 loop /snap/core18/2812
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 40.9M 1 loop /snap/snapd/20290
xvda 202:0 0 8G 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
xvdf 202:80 0 5G 0 disk /root/vcube/batch
root@ip-172-31-82-214:~# umount /dev/xvdf vcube/batch
i-0793456c258c948b9 (Assign-ec1)
PublicIPs: 3.93.82.50 PrivateIPs: 172.31.82.214
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CloudShell
Feedback
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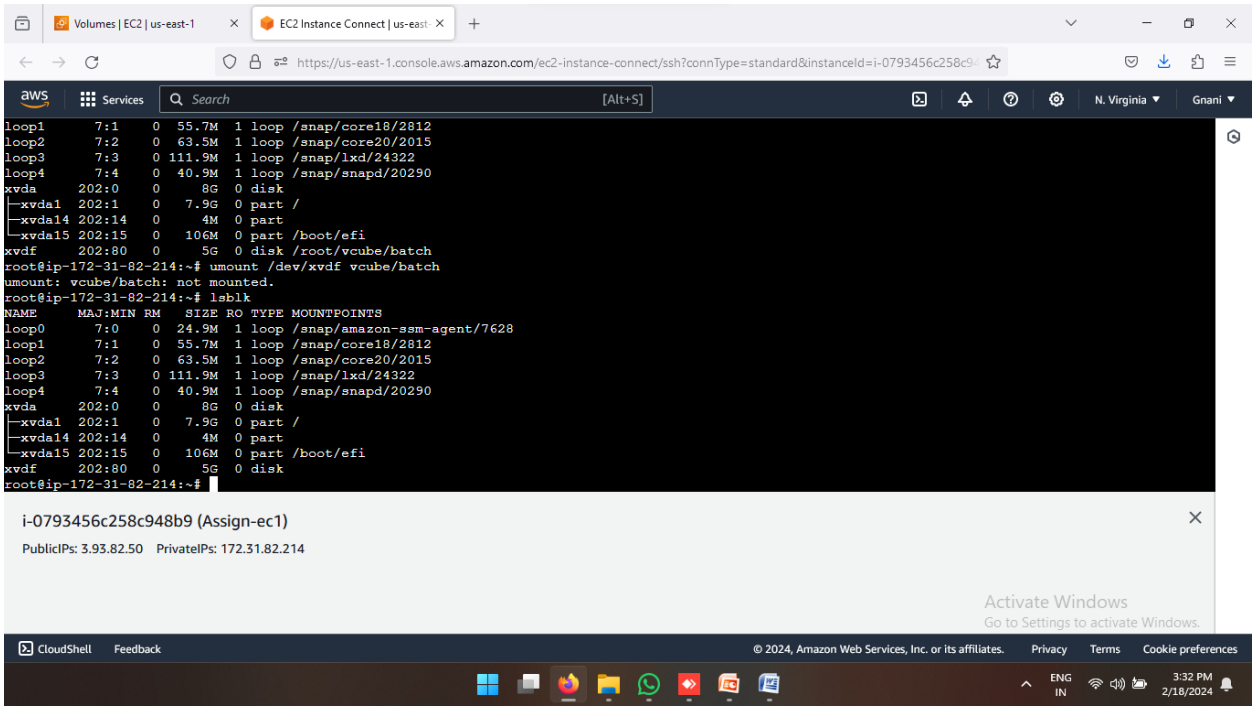
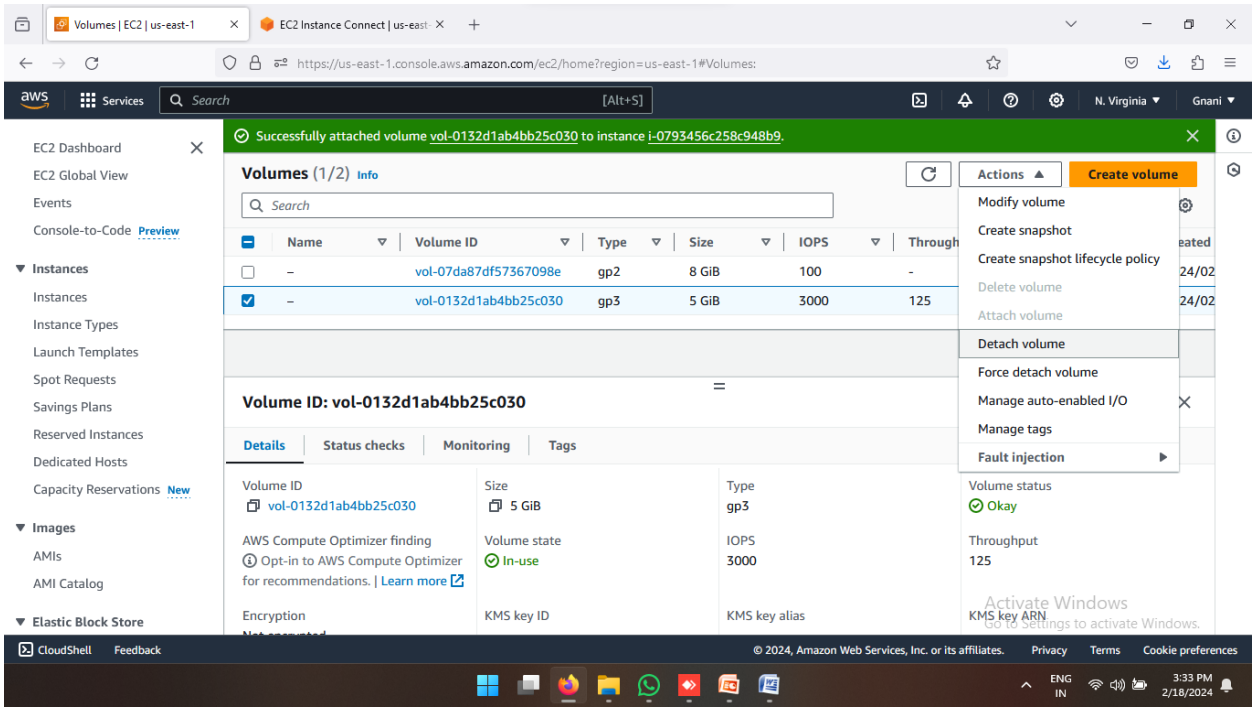
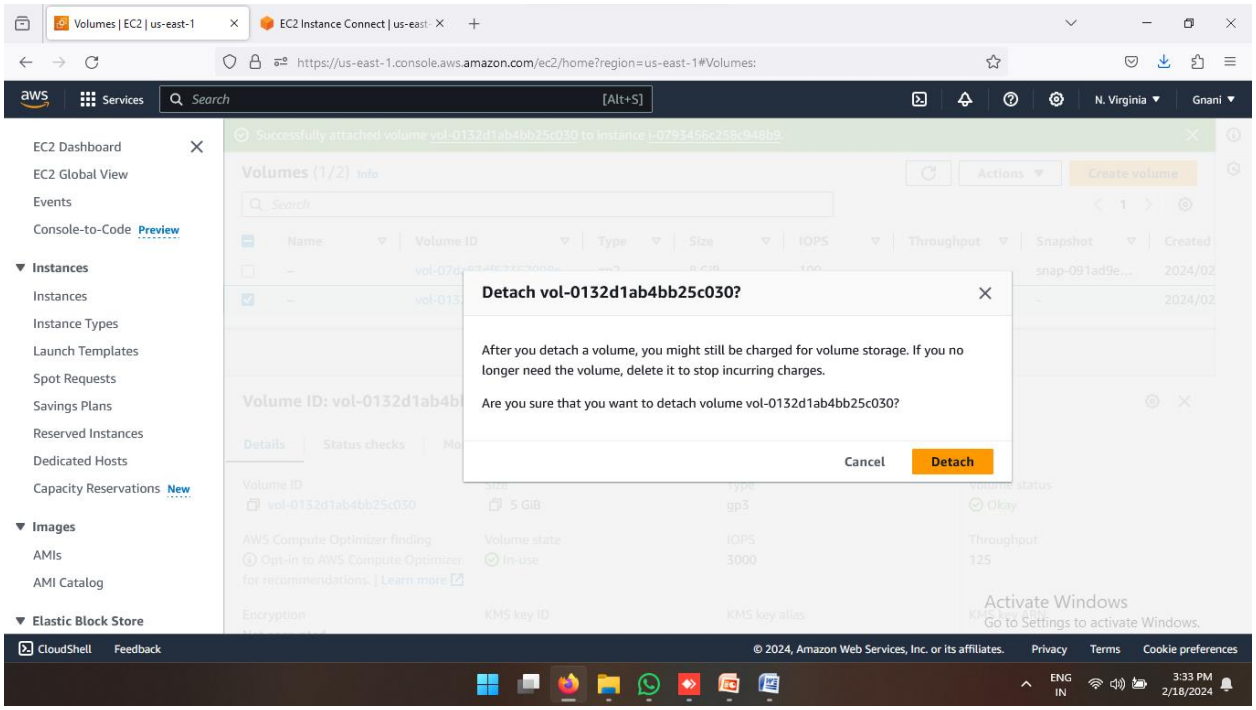
ENG
IN
3:32 PM
2/18/2024



- Now go to Volumes and detach the volume to instance




Volumes | EC2 | us-east-1
EC2 Instance Connect | us-east
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes:
Services
Search
[Alt+S]
N. Virginia
Gnani
EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
AMI Catalog
Elastic Block Store
Detach vol-0132d1ab4bb25c030?
After you detach a volume, you might still be charged for volume storage. If you no longer need the volume, delete it to stop incurring charges.
Are you sure that you want to detach volume vol-0132d1ab4bb25c030?
Cancel
Detach
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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3:33 PM
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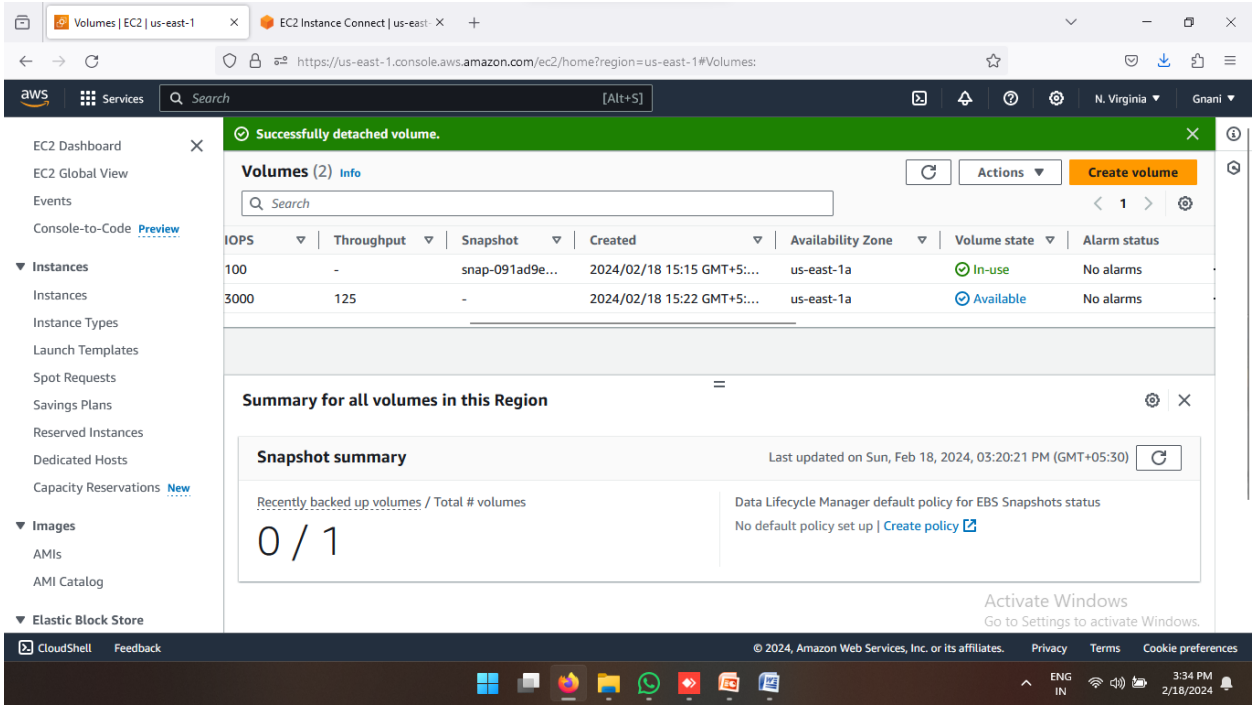
Volumes | EC2 | us-east-1
EC2 Instance Connect | us-east
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes:
Services
Search
[Alt+S]
N. Virginia
Gnani
Successfully detached volume.
EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes (2) Info
Actions
Create volume
Search
IOPS
Throughput
Snapshot
Created
Availability Zone
Volume state
Alarm status
100
-
snap-091ad9e...
2024/02/18 15:15 GMT+5:...
us-east-1a
In-use
No alarms
3000
125
-
2024/02/18 15:22 GMT+5:...
us-east-1a
Available
No alarms
Summary for all volumes in this Region
Snapshot summary
Last updated on Sun, Feb 18, 2024, 03:20:21 PM (GMT+05:30)
Recently backed up volumes / Total # volumes
0 / 1
Data Lifecycle Manager default policy for EBS Snapshots status
No default policy set up | Create policy
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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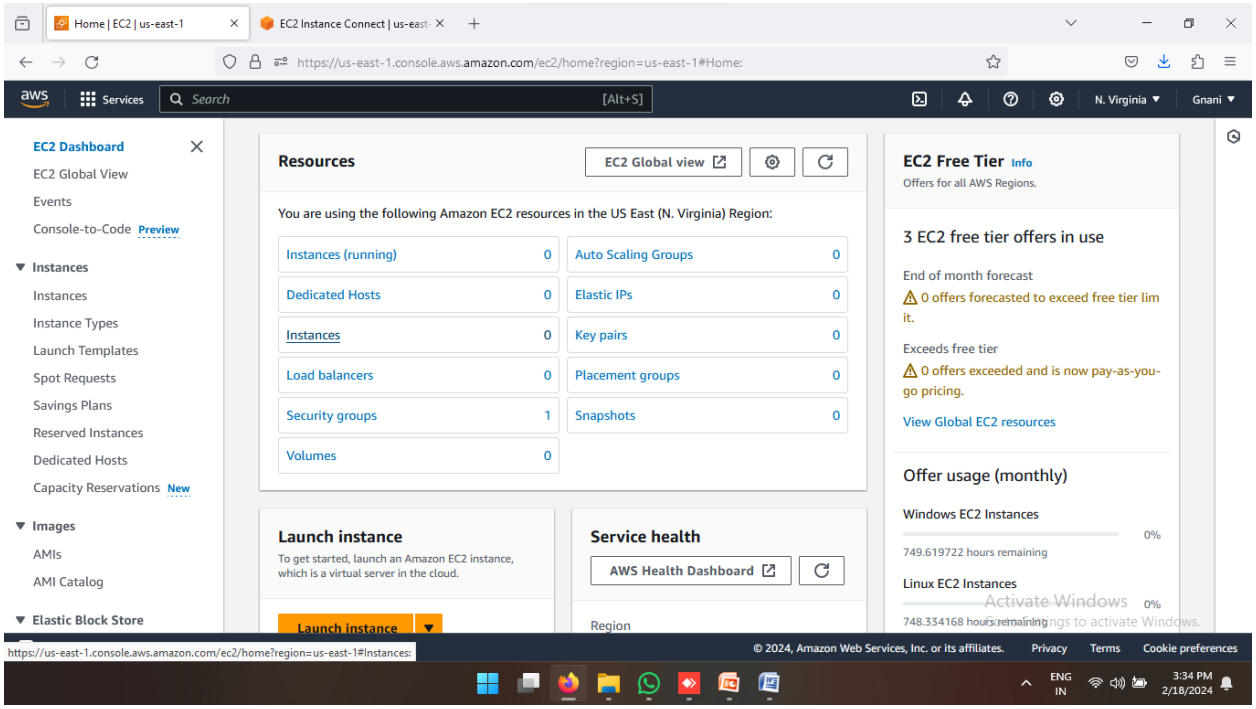
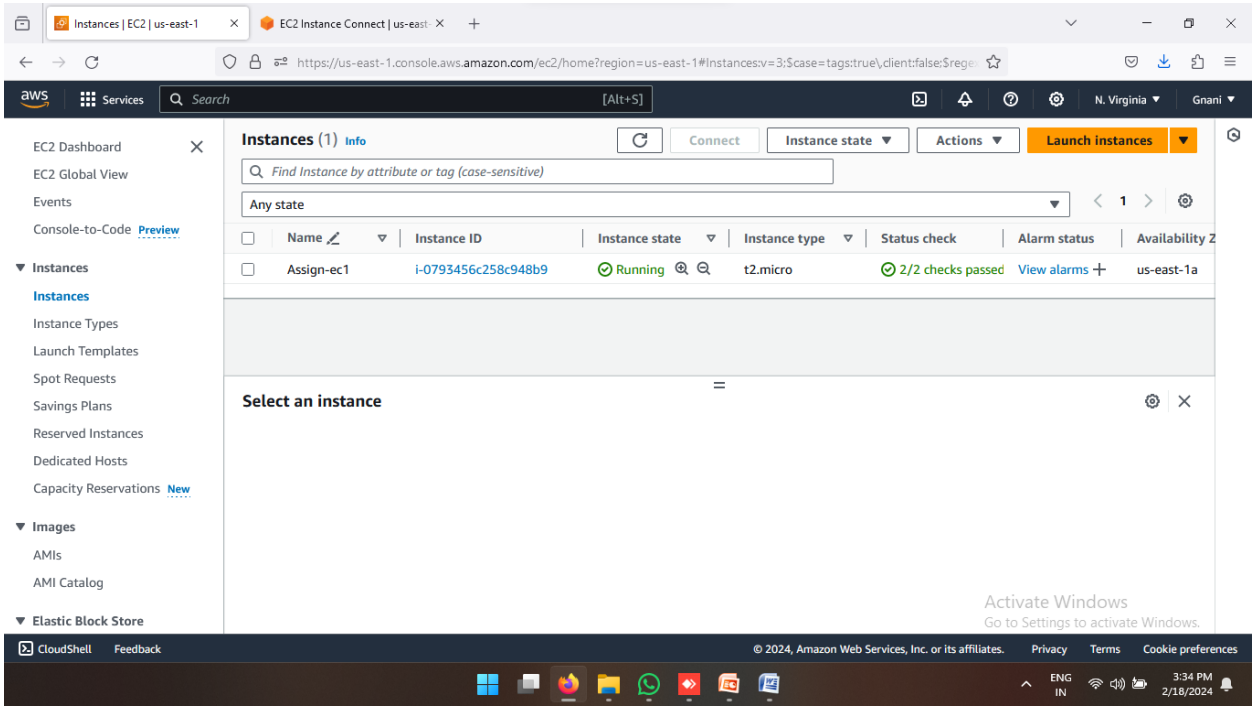
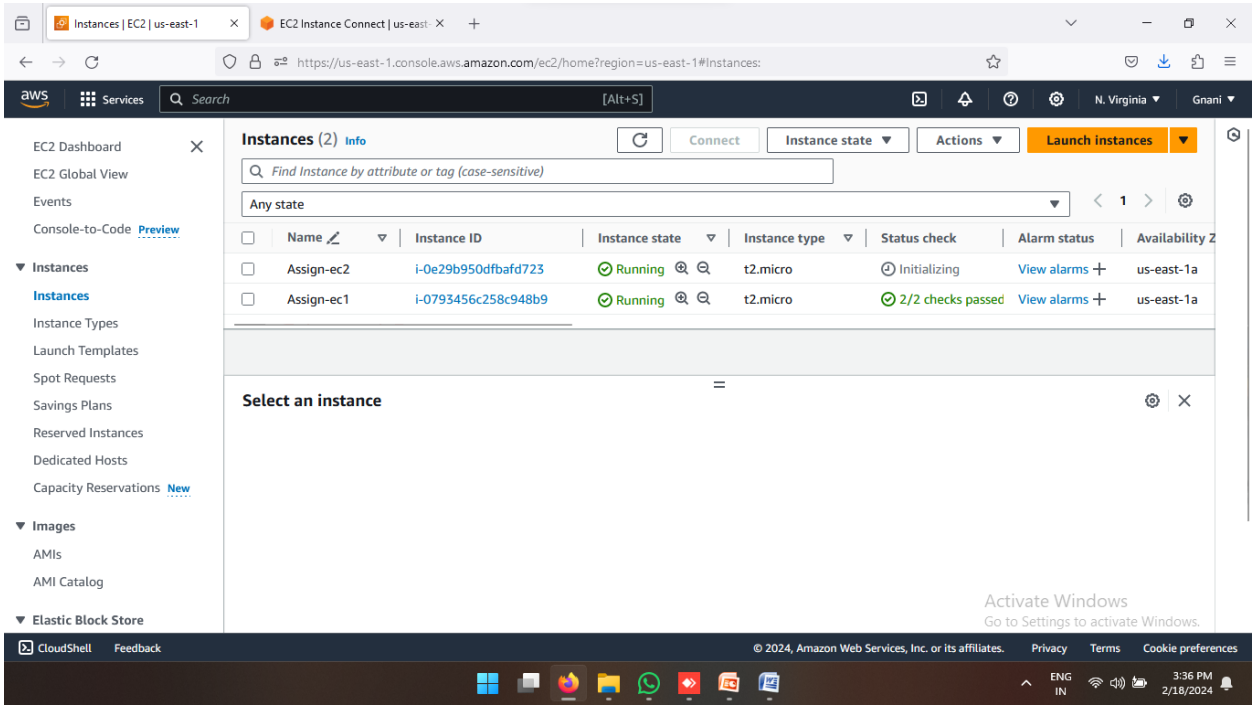
Cookie preferences
3:34 PM
2/18/2024

- Now to EC2 Instance and create one more instance in same availability zone

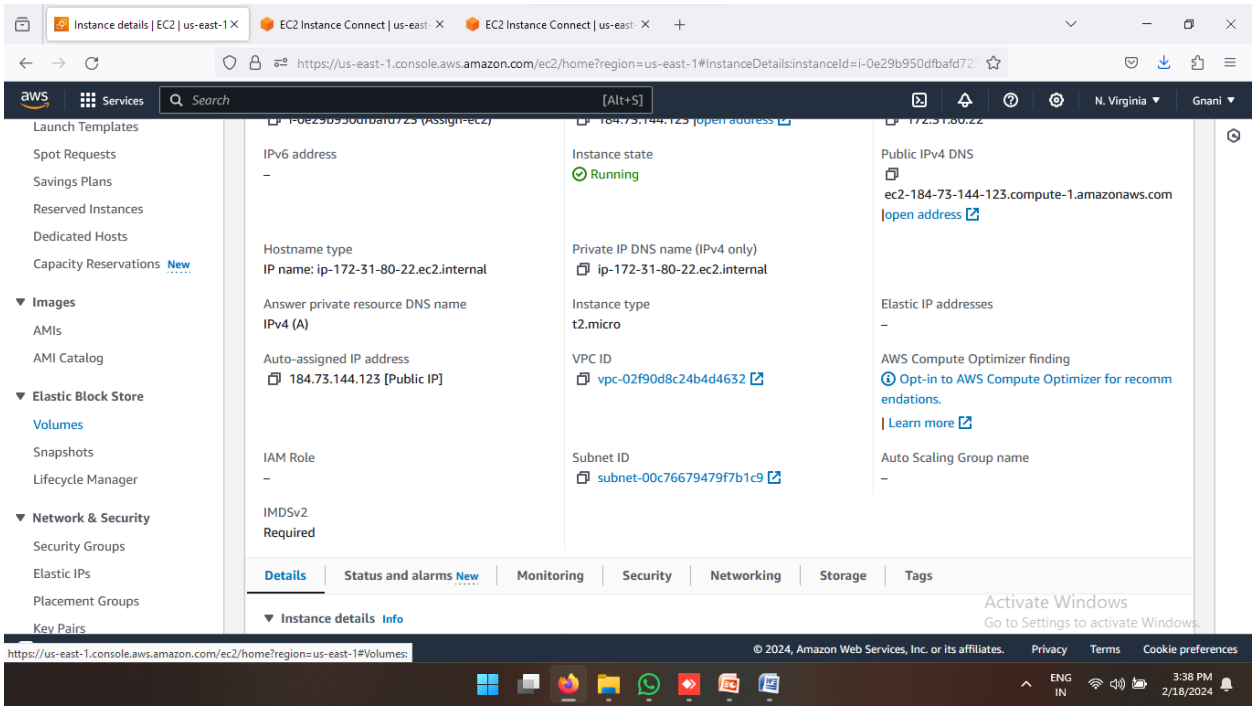


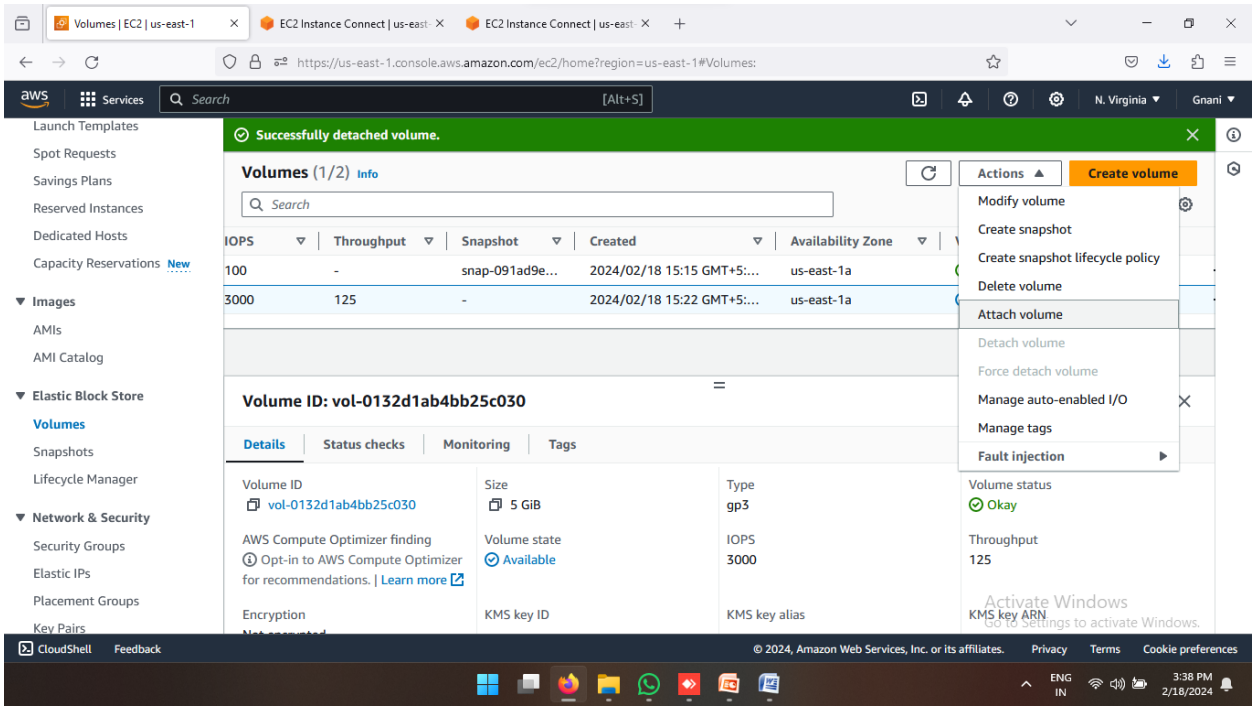


- After Creating Instance go to instance id and connect the instance



- Now go to Volumes and attach the already created volume attach to second instance




Volumes | EC2 | us-east-1
EC2 Instance Connect | us-east-
EC2 Instance Connect | us-east-
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes:
Services
Search
[Alt+S]
N. Virginia
Gnani
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Successfully detached volume.
Volumes (1/2) Info
Search
Actions
Create volume
Modify volume
Create snapshot
Create snapshot lifecycle policy
Delete volume
Attach volume
Detach volume
Force detach volume
Manage auto-enabled I/O
Manage tags
Fault injection
IOPS
Throughput
Snapshot
Created
Availability Zone
100
-
snap-091ad9e...
2024/02/18 15:15 GMT+5:...
us-east-1a
3000
125
-
2024/02/18 15:22 GMT+5:...
us-east-1a
Volume ID: vol-0132d1ab4bb25c030
Details
Status checks
Monitoring
Tags
Volume ID
vol-0132d1ab4bb25c030
Size
5 GiB
Type
gp3
Volume status
Okay
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more
Volume state
Available
IOPS
3000
Throughput
125
Encryption
KMS key ID
KMS key alias
KMS key ARN
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Go to Settings to activate Windows.
CloudShell
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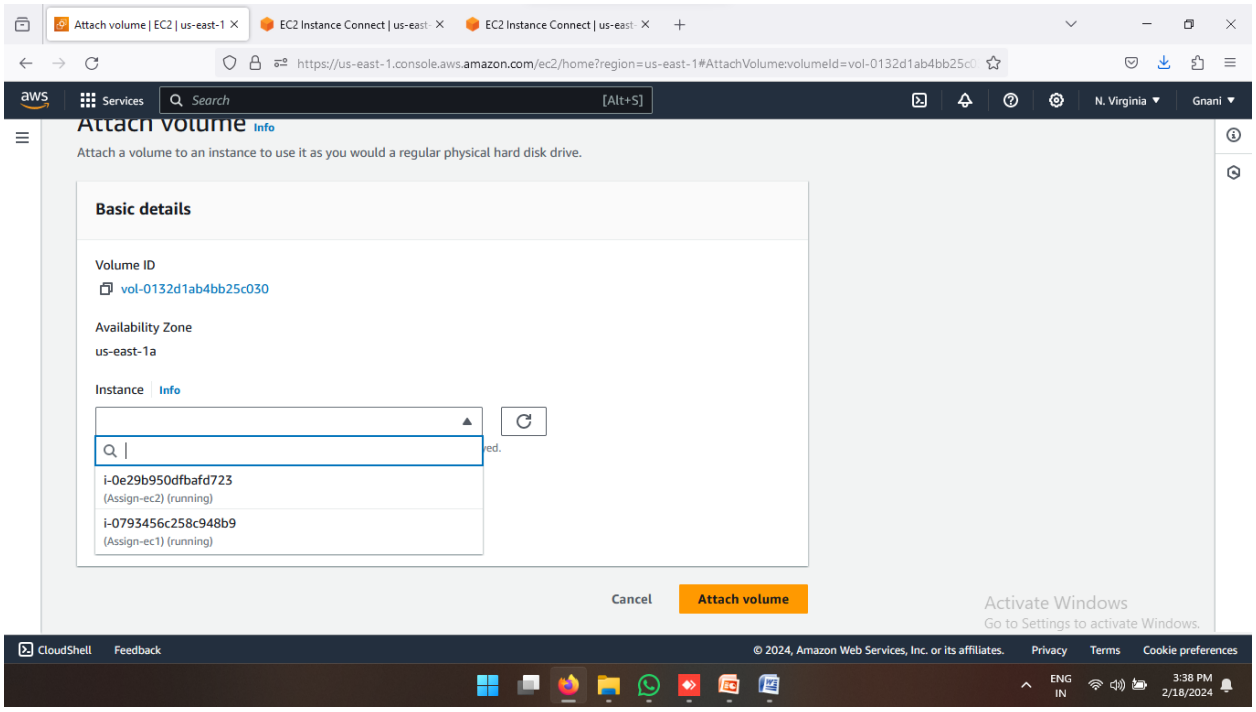
Attach volume | EC2 | us-east-1
EC2 Instance Connect | us-east-
EC2 Instance Connect | us-east-
https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AttachVolume:volumeId=vol-0132d1ab4bb25c0
Services
Search
[Alt+S]
N. Virginia
Gnani
Attach volume Info
Attach a volume to an instance to use it as you would a regular physical hard disk drive.
Basic details
Volume ID
vol-0132d1ab4bb25c030
Availability Zone
us-east-1a
Instance Info
i-0e29b950dfbafd723
(Assign-ec2) (running)
i-0793456c258c948b9
(Assign-ec1) (running)
Cancel
Attach volume
Activate Windows
Go to Settings to activate Windows.
CloudShell
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ENG
IN
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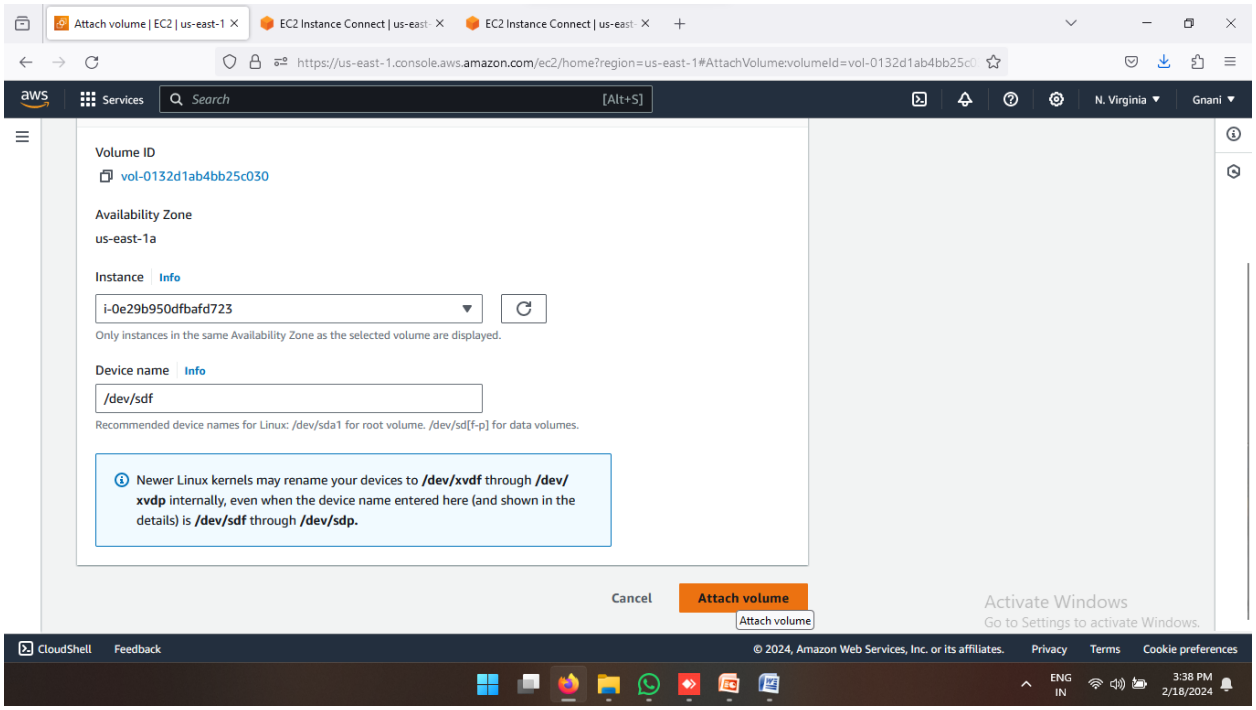
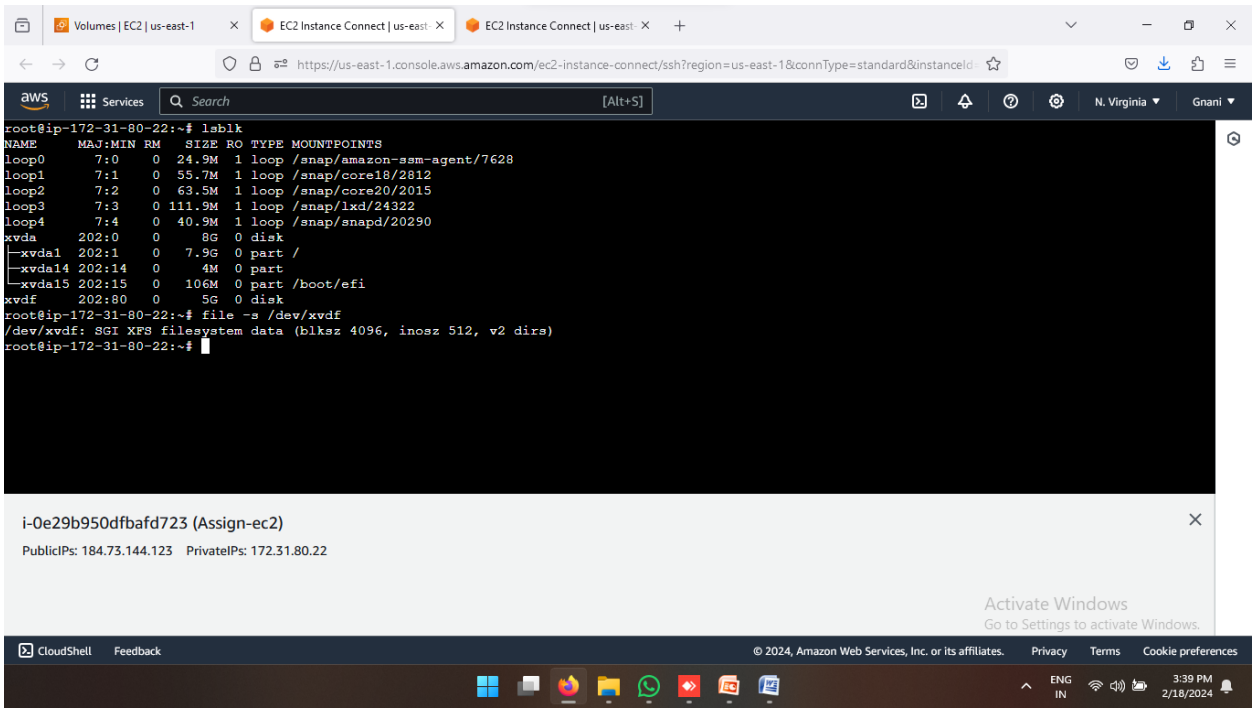
2/18/2024

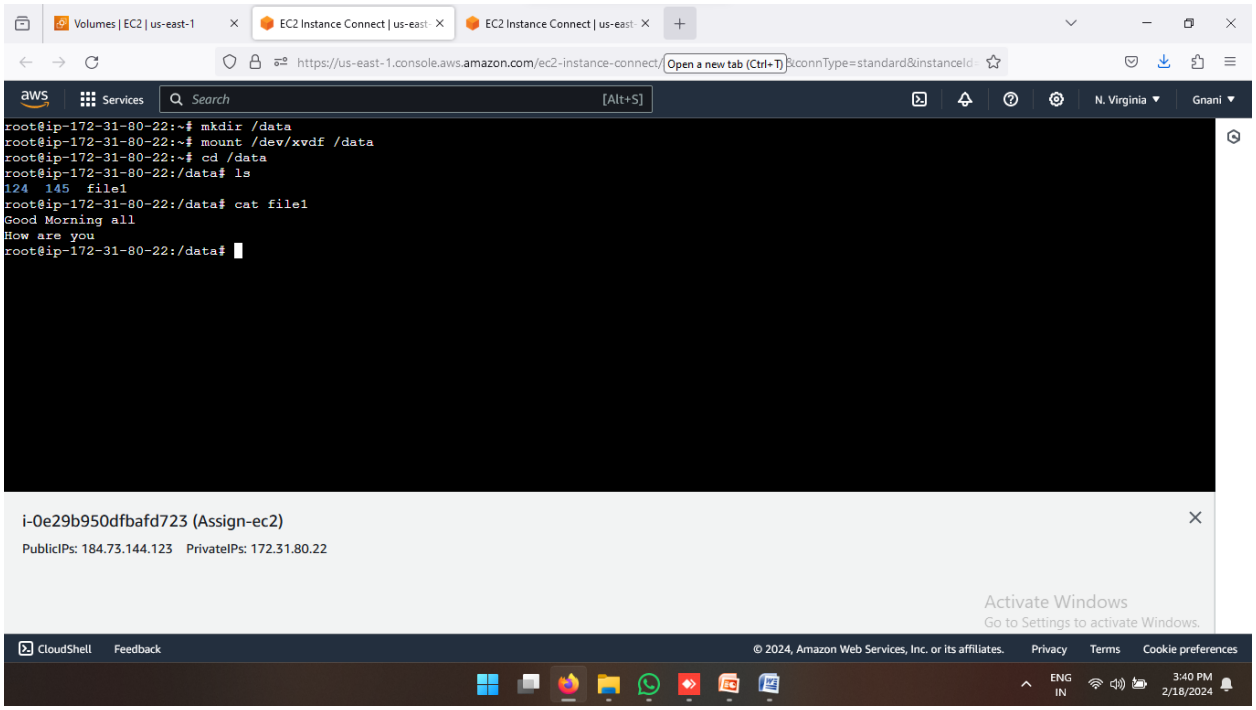


After Attach volume to check the file system is there or not

Then see the data in volume Command is

- **File –s /dev/xvdf**
- **Mkdir /data**
- **Mount /dev/xvdf /data**
- **Cd /data**
- **Ls**




Volumes | EC2 | us-east-1
EC2 Instance Connect | us-east-
EC2 Instance Connect | us-east-
https://us-east-1.console.aws.amazon.com/ec2-instance-connect/
Open a new tab (Ctrl+T)
&connType=standard&instanceId
aws
Services
Search
[Alt+S]
N. Virginia
Gnani
root@ip-172-31-80-22:~# mkdir /data
root@ip-172-31-80-22:~# mount /dev/xvdf /data
root@ip-172-31-80-22:~# cd /data
root@ip-172-31-80-22:/data# ls
124 145 file1
root@ip-172-31-80-22:/data# cat file1
Good Morning all
How are you
root@ip-172-31-80-22:/data#
i-0e29b950dfbafd723 (Assign-ec2)
PublicIPs: 184.73.144.123 PrivateIPs: 172.31.80.22
Activate Windows
Go to Settings to activate Windows.
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3:40 PM
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