ASSIGNMENT – 01

COURSE : DEVOPS

Trainer : Mr . MADHUKAR

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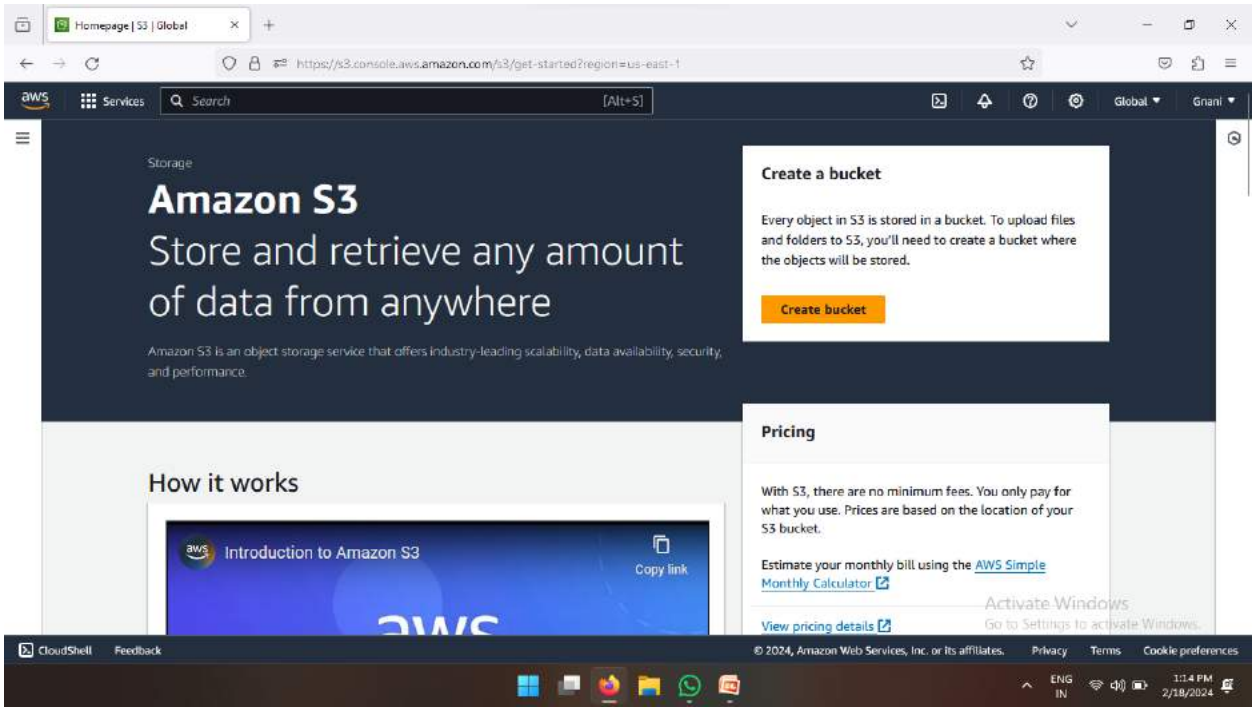
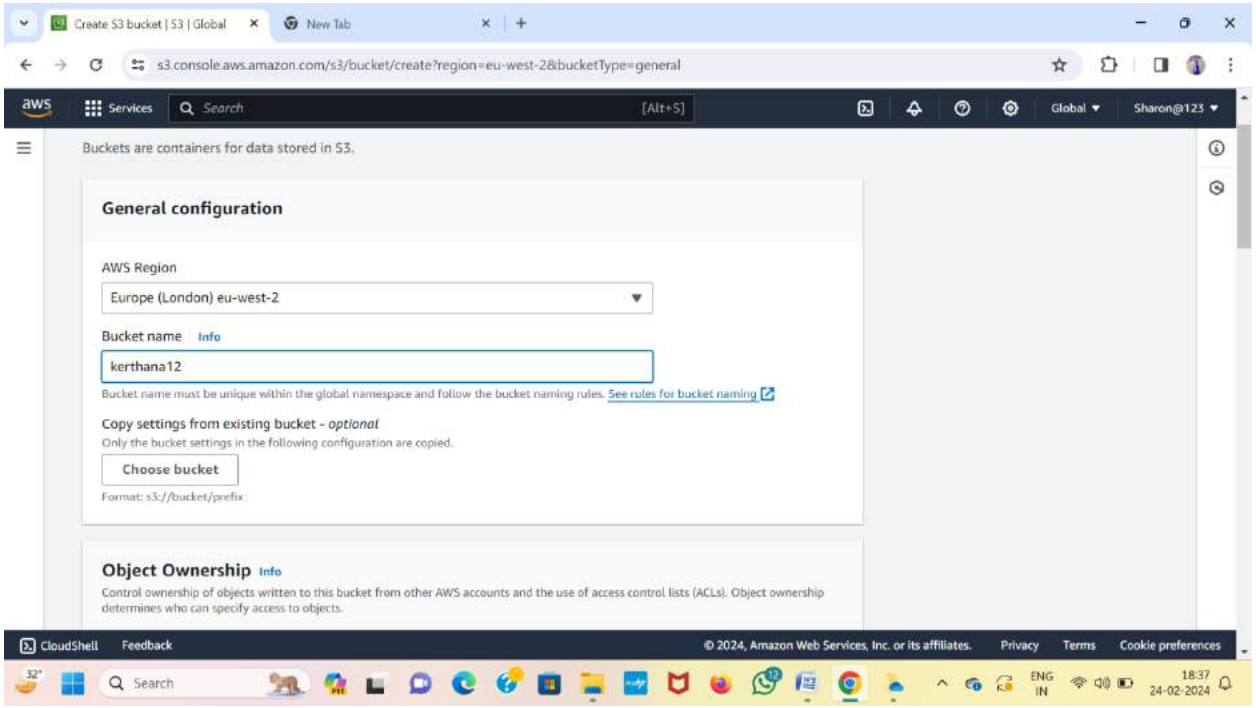
Mail id :merugukeerthana12@gmail.com

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

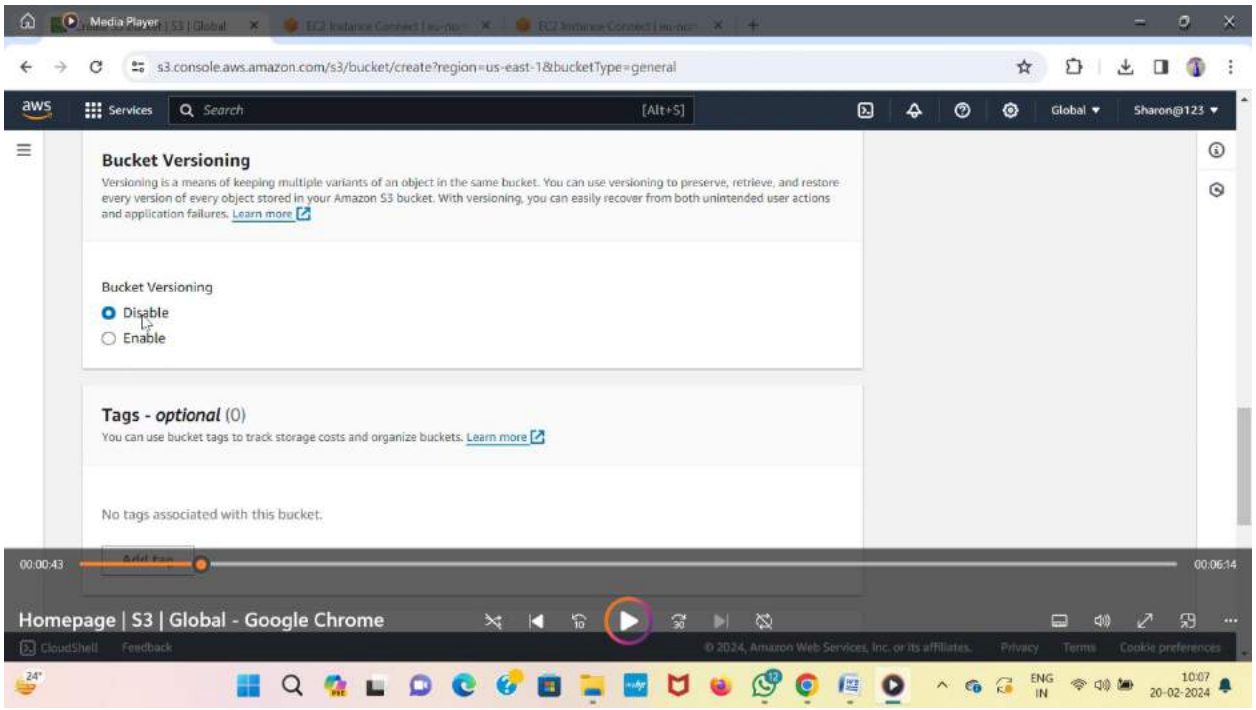
- Go to Amazon S3 , Click on Create Bucket



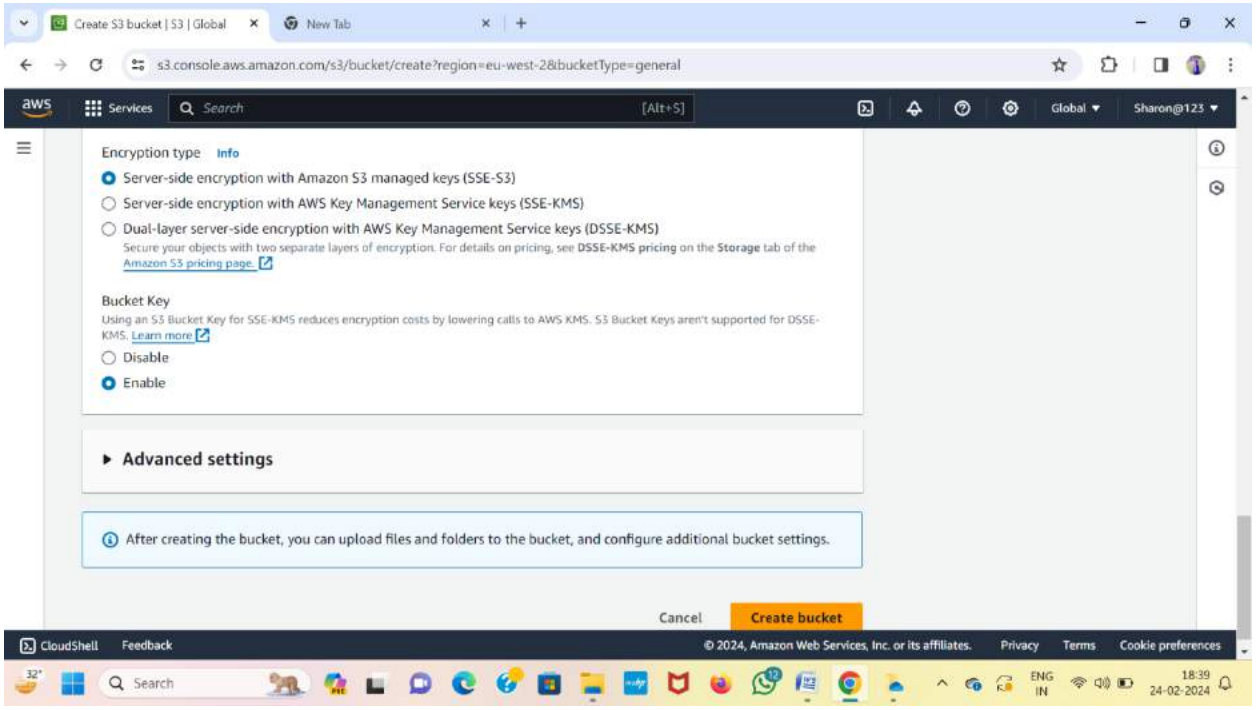
- Enter Bucket Name and Select Any one Region



- Enable Bucket Version

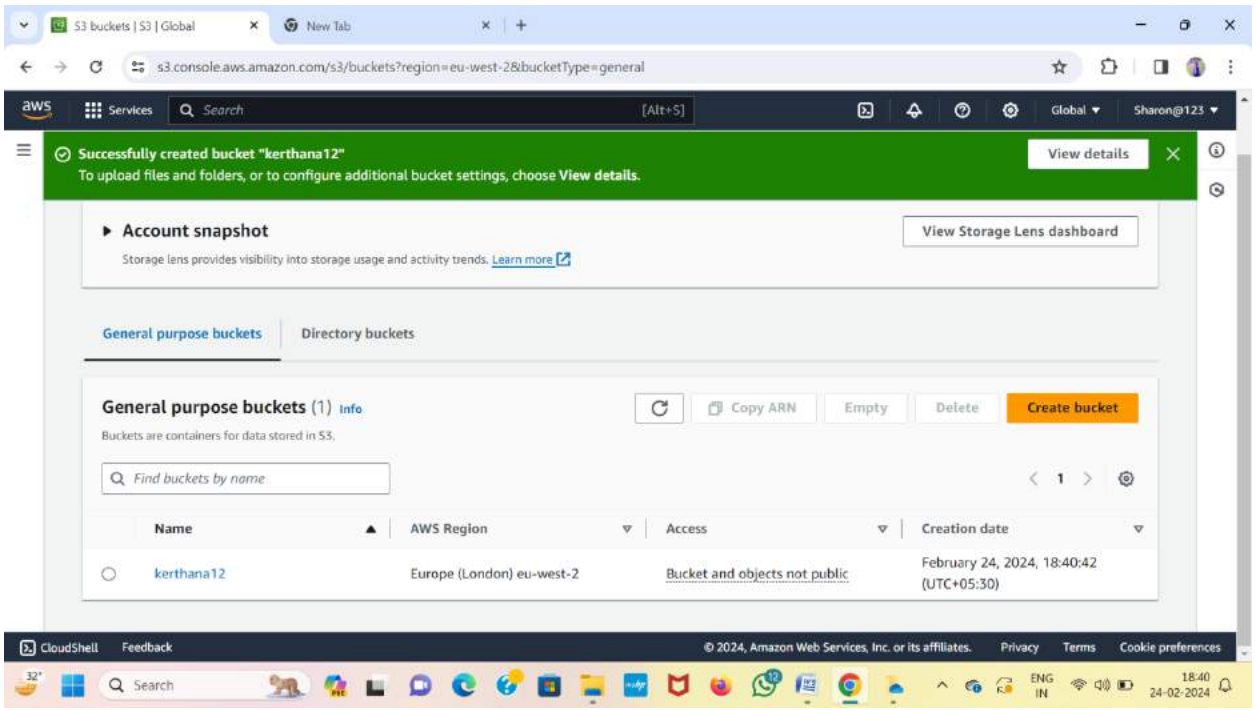


- After that Click on Create Bucket

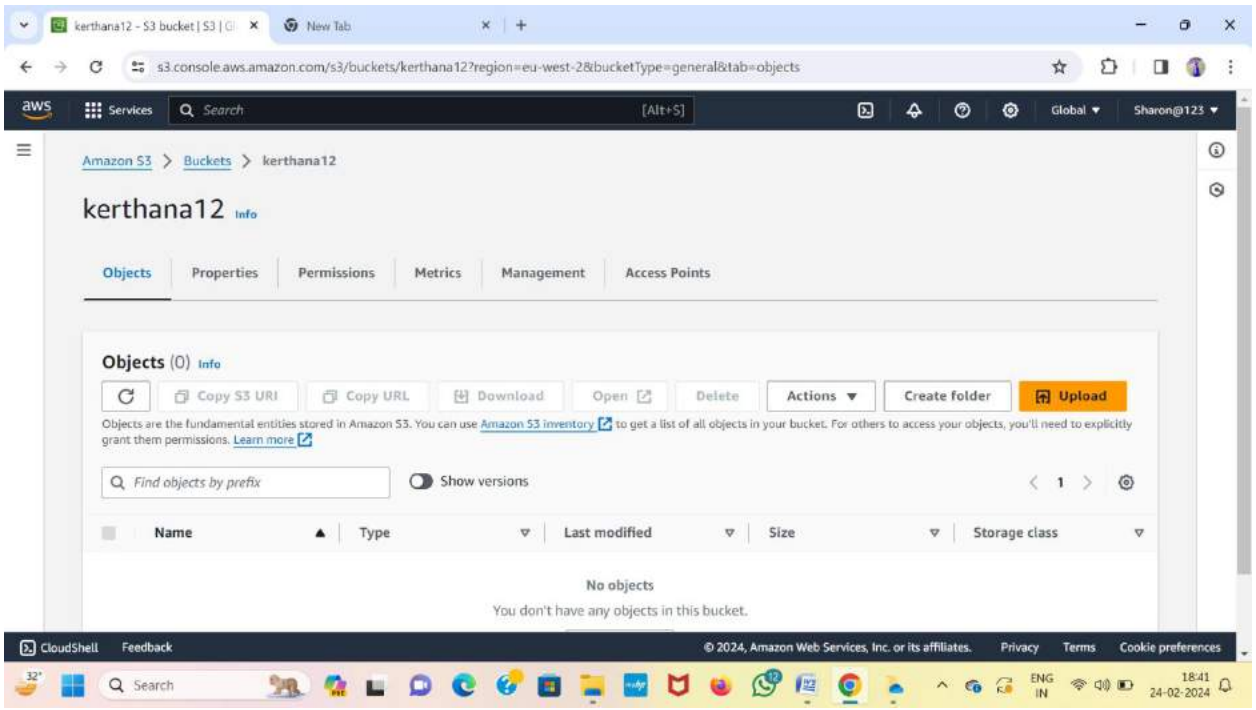


- One more bucket created in different region.

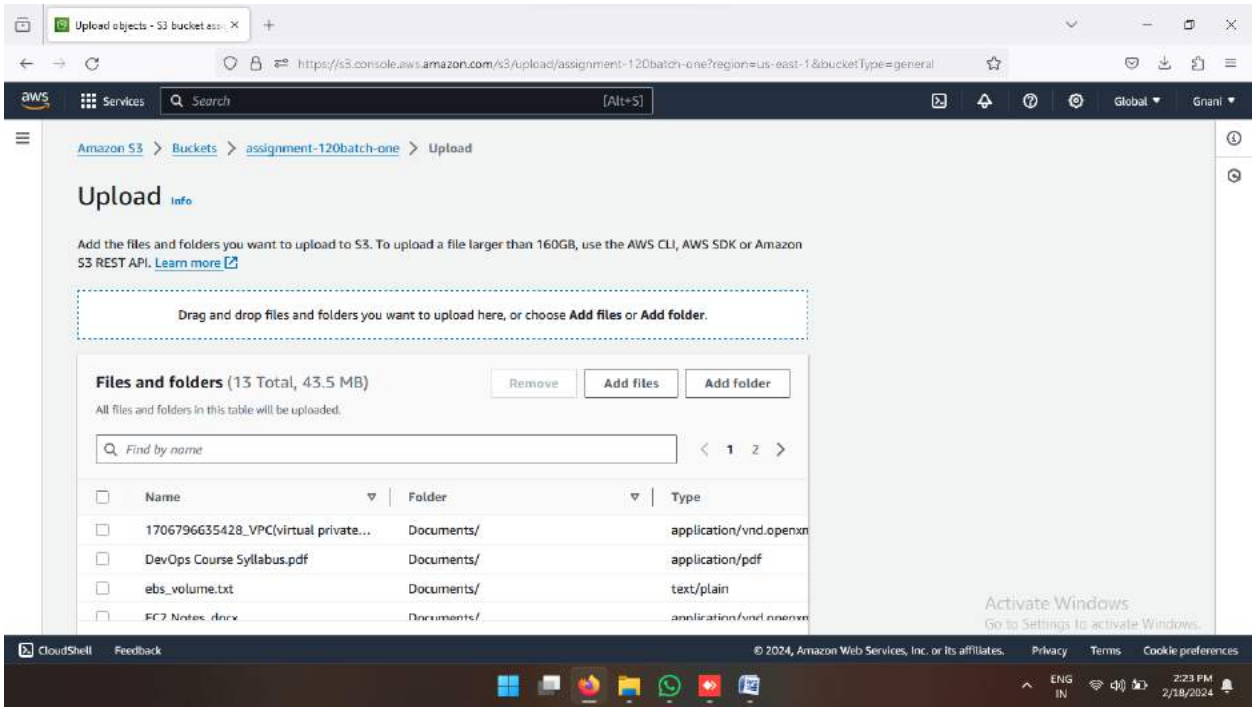
- Now see the 2 Buckets in different region



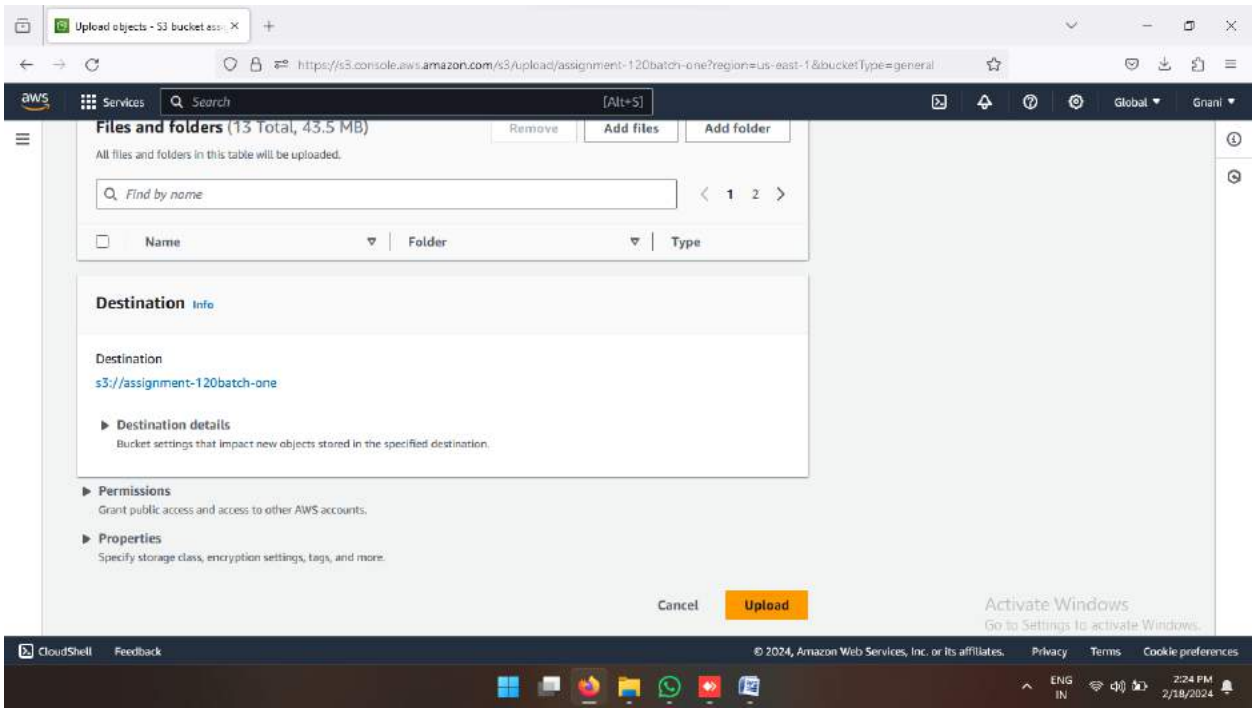
- Now go to first bucket and click on upload



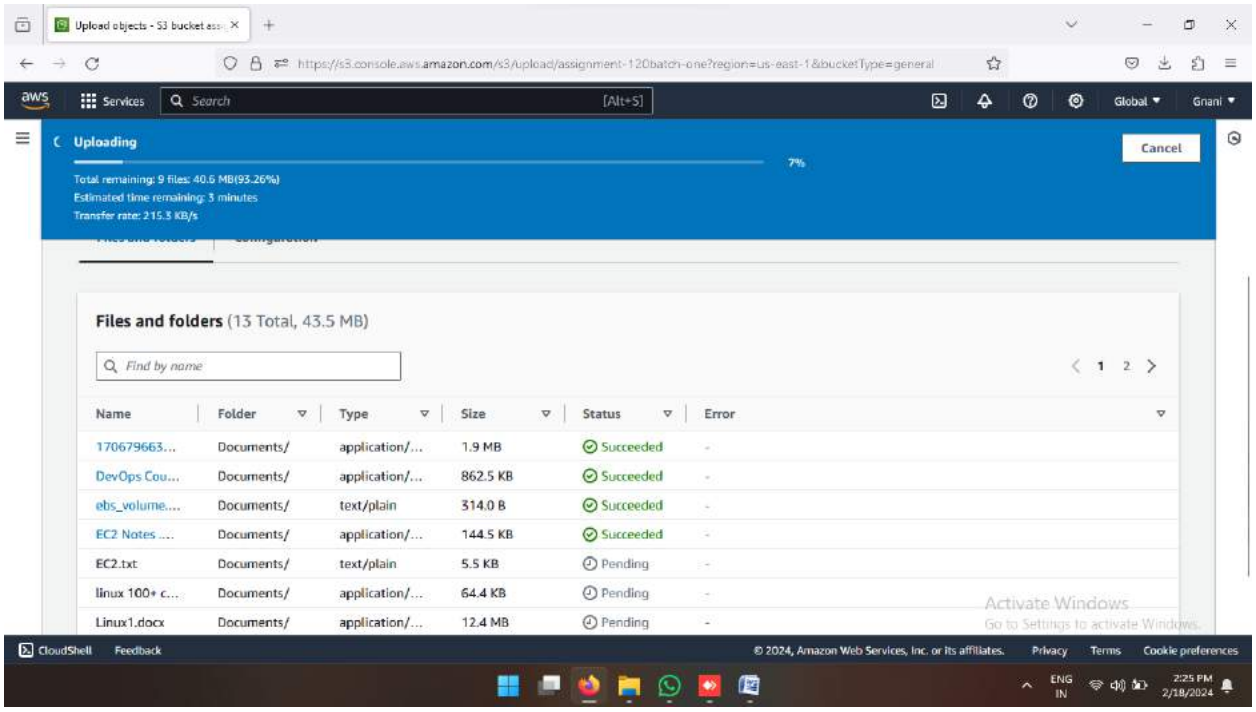
- Then Add Files and Add Folders then upload



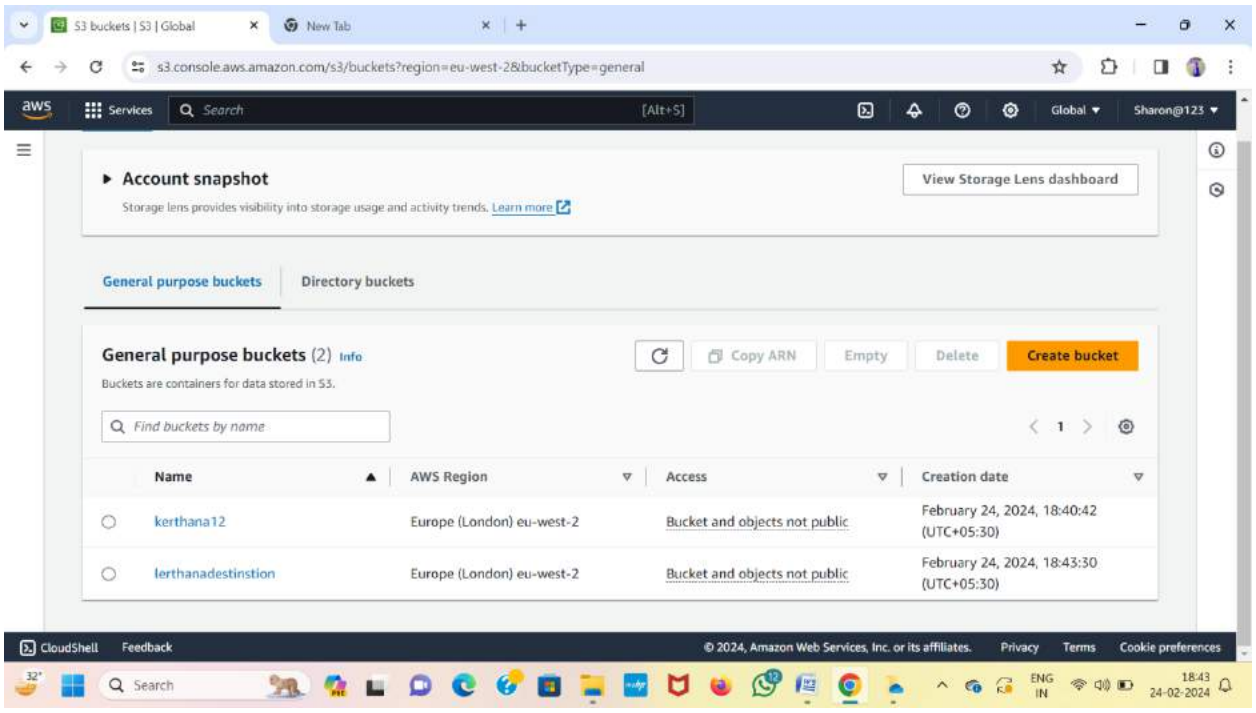
- Click on Upload



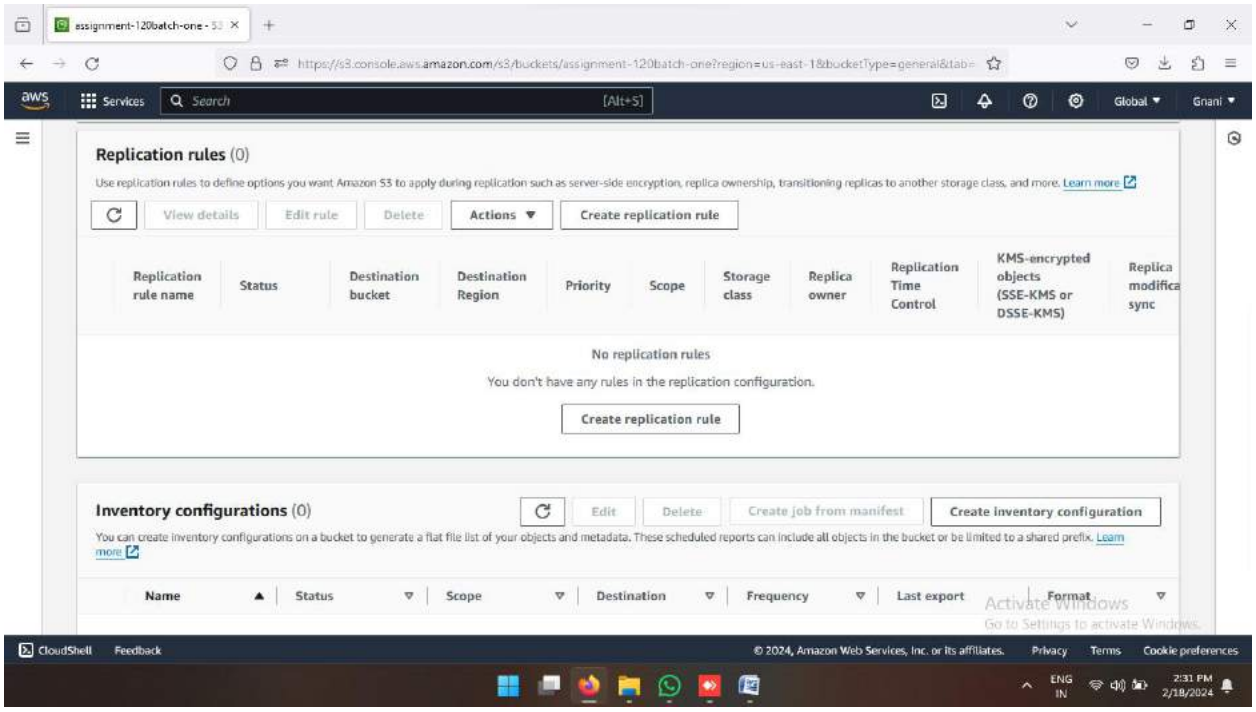
- Uploading Files and Folders



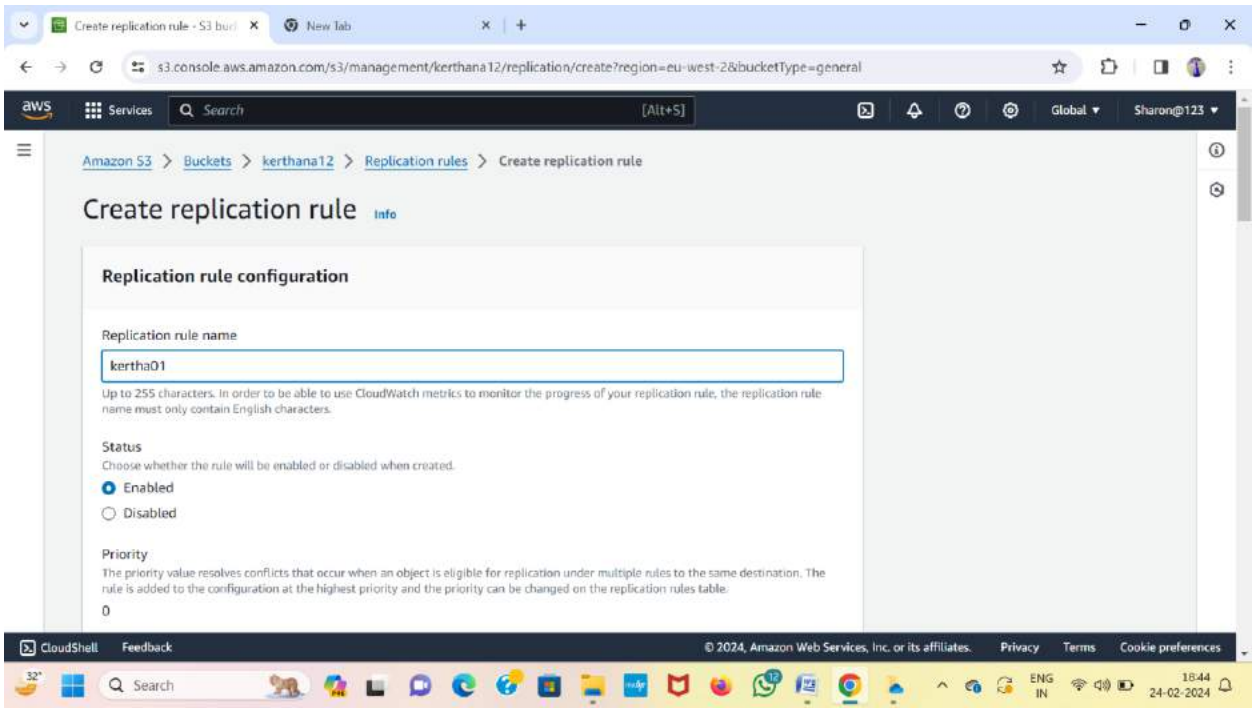
- Now go to Management in first bucket (or) Source Bucket



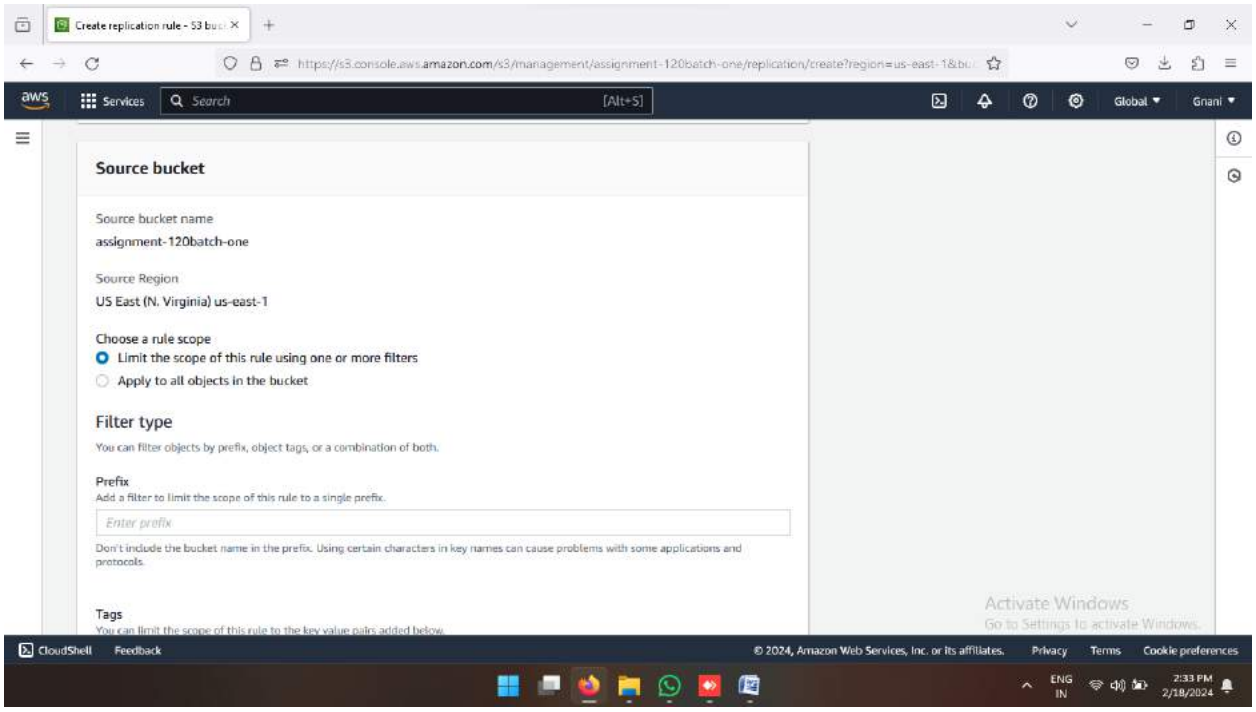
- In Management Console click on create Replication Rule



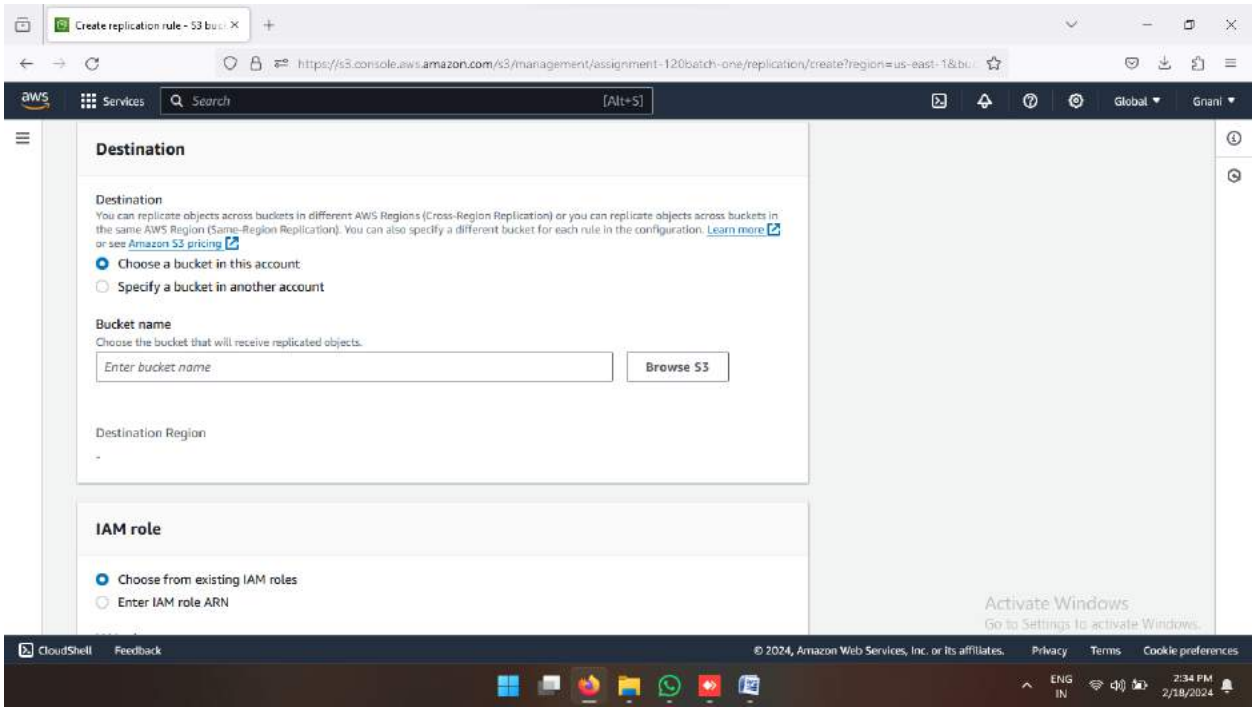
- Enter Replication rule name



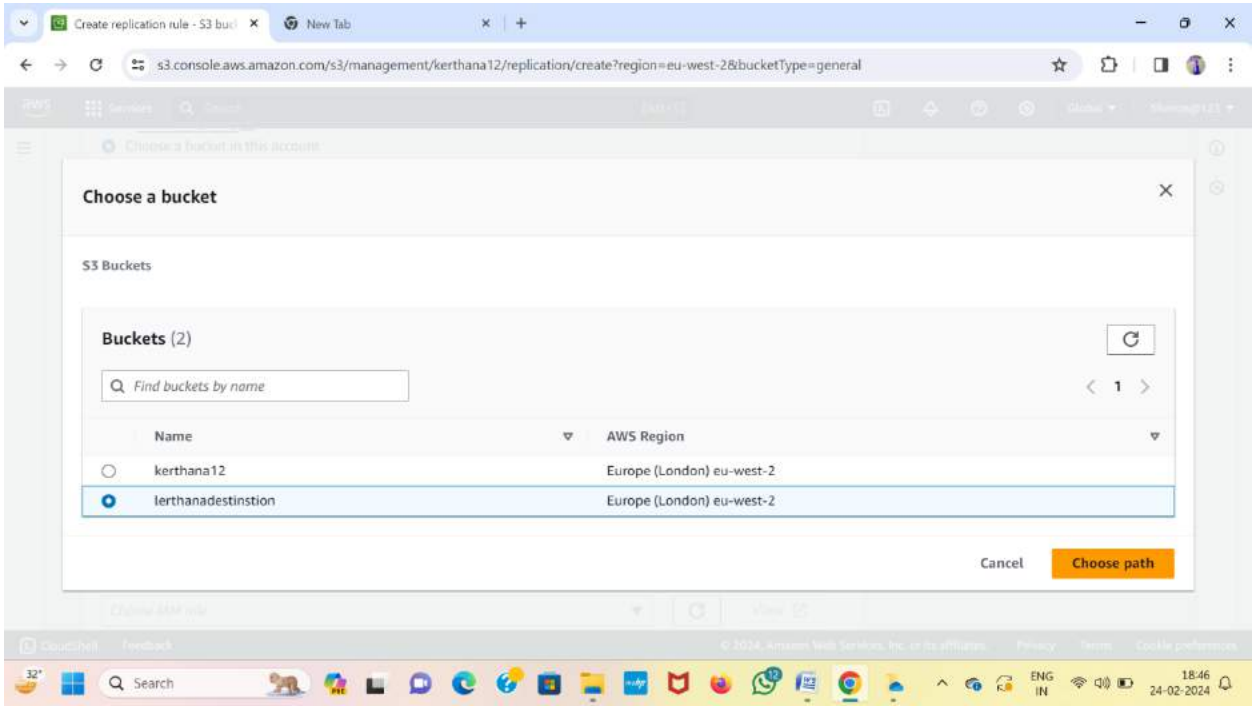
- Click on Apply to all objects in he bucket



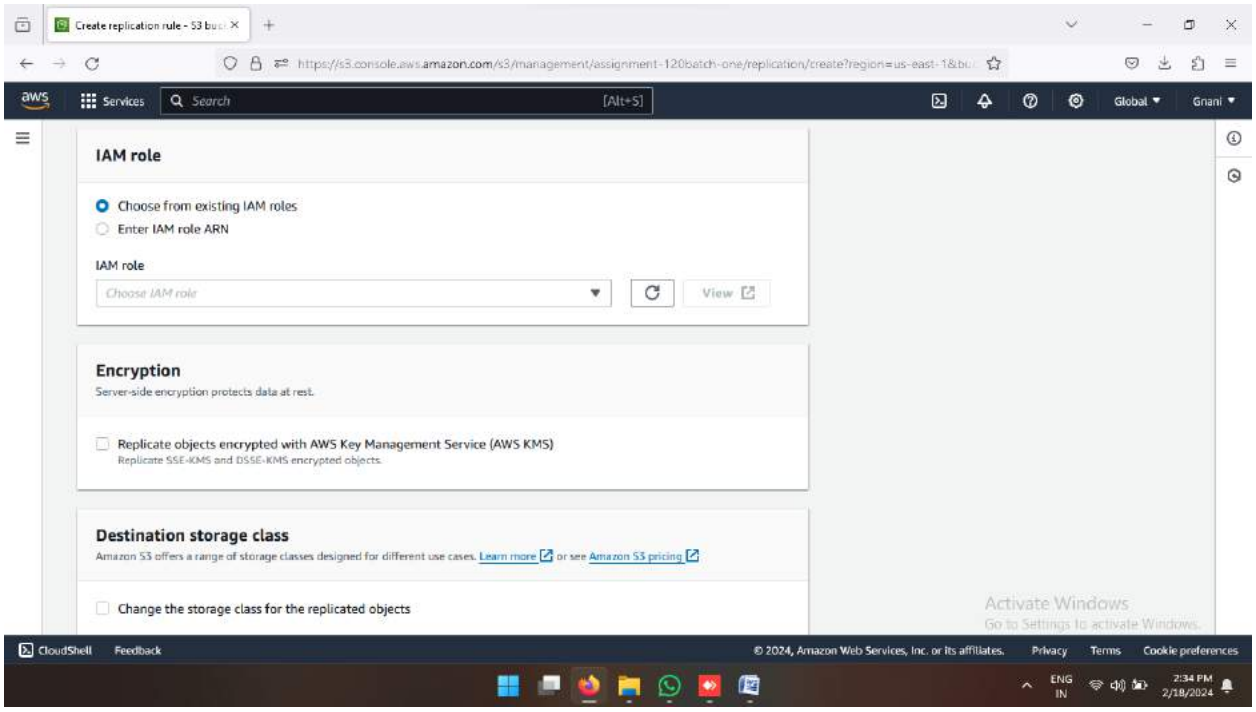
- Now Choose Destination where ever you want to see the data
- Choose a bucket in this account



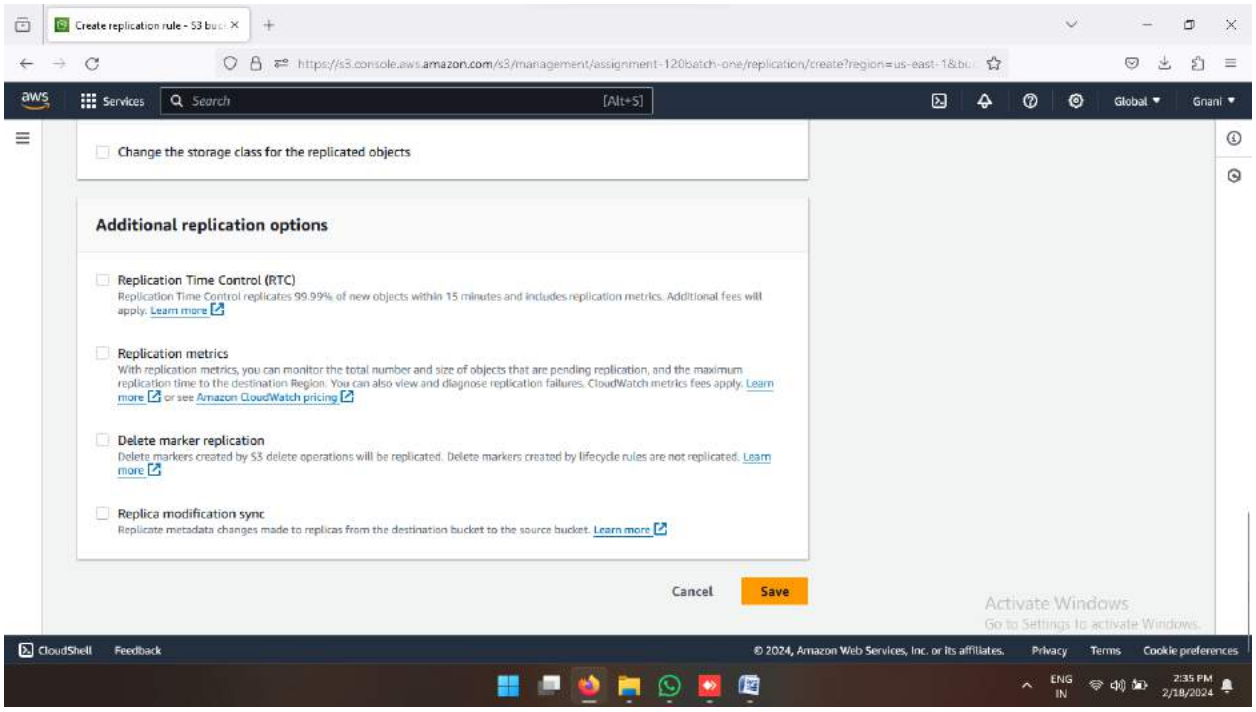
- Select another region Bucket (or) Where ever you want to see the data that bucket select and click on choose path



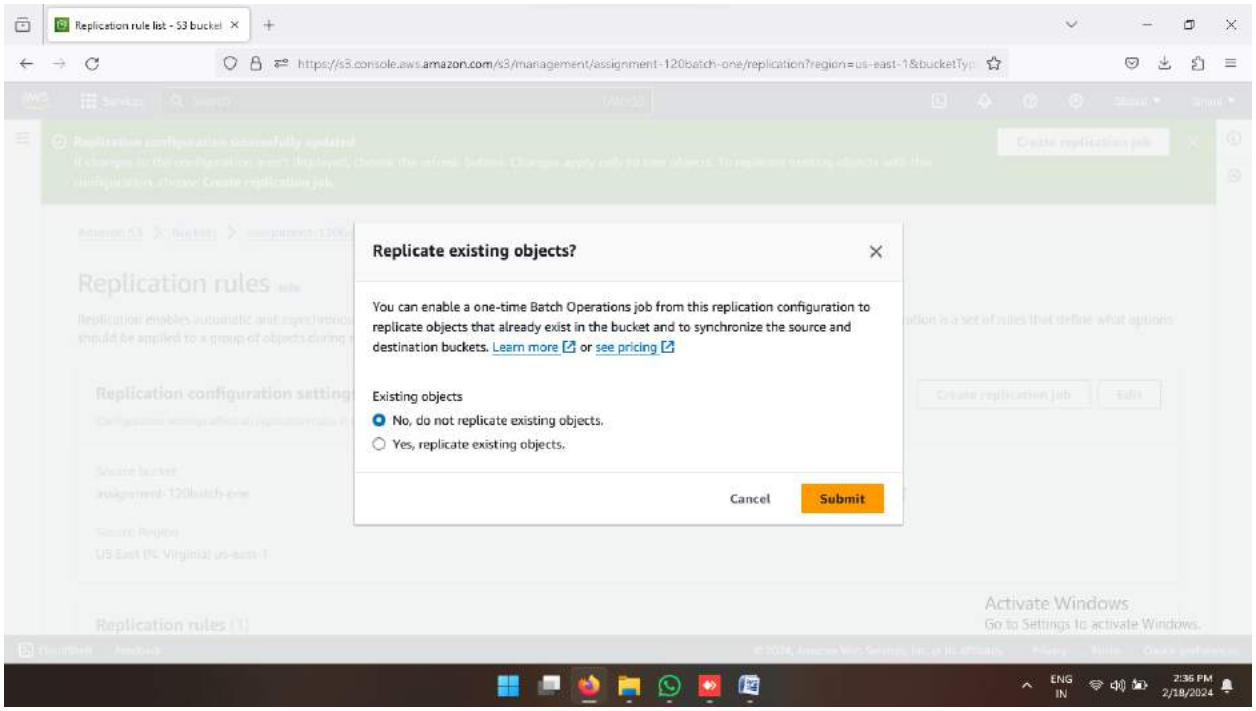
- Now choose from existing IAM roles
- Select Drop down Create a new role



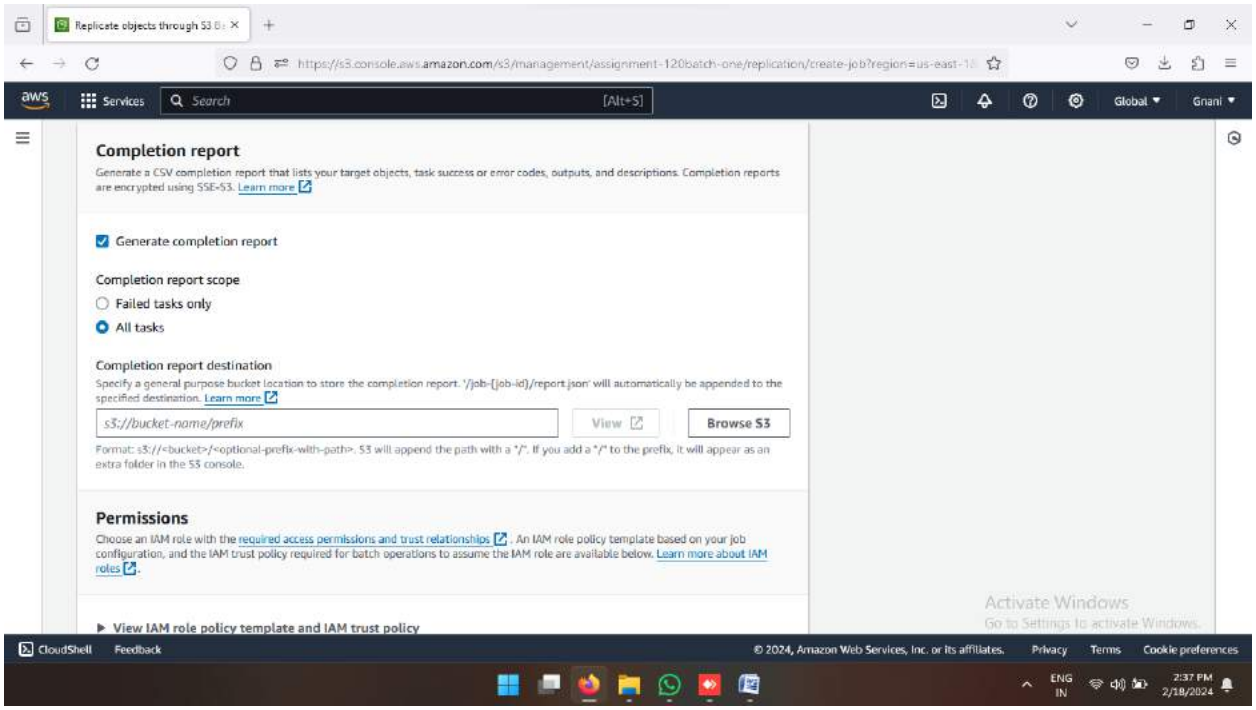
- Then Save the Replication Rule

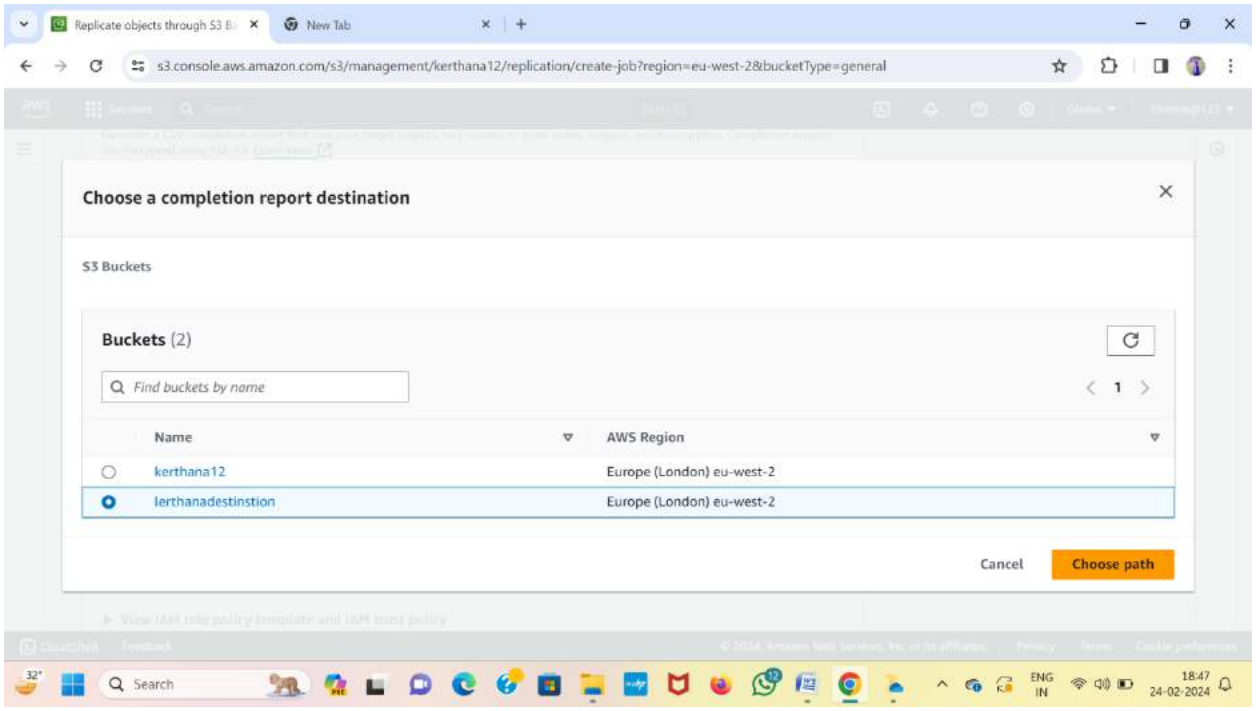


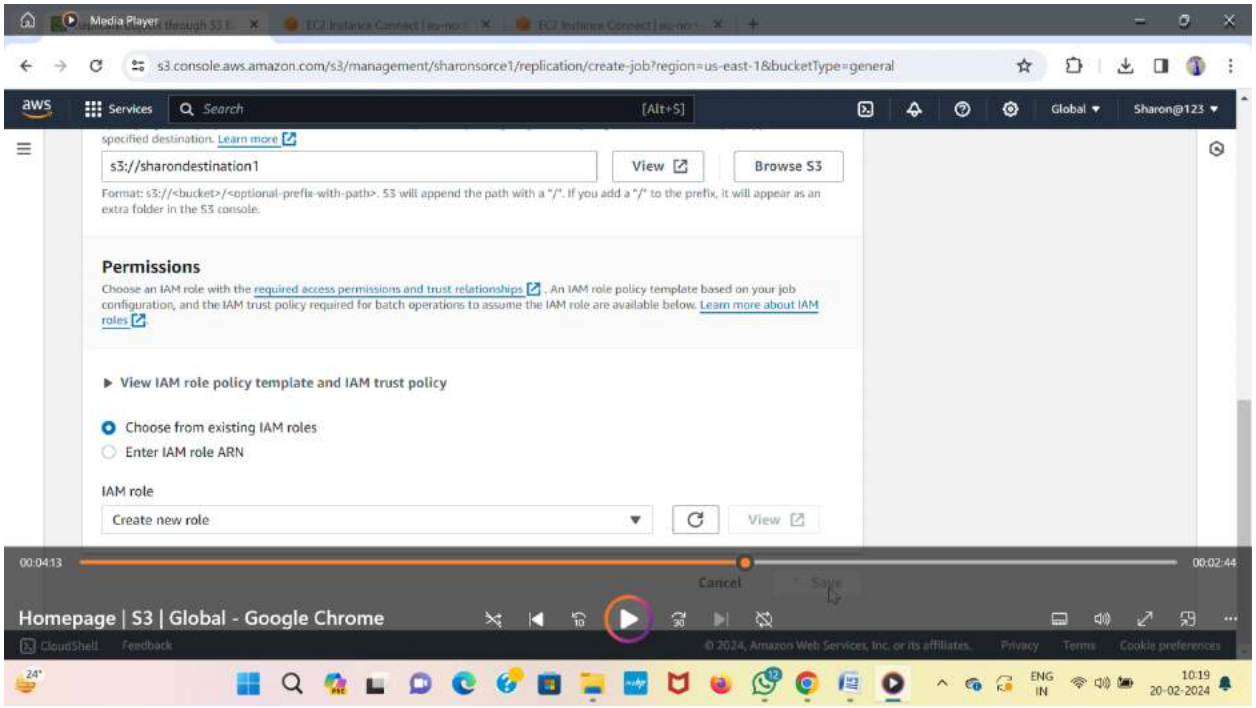
- Now if you want see the existing data then click on Yes
- If you don’t want to see the existing data then click on No then submit



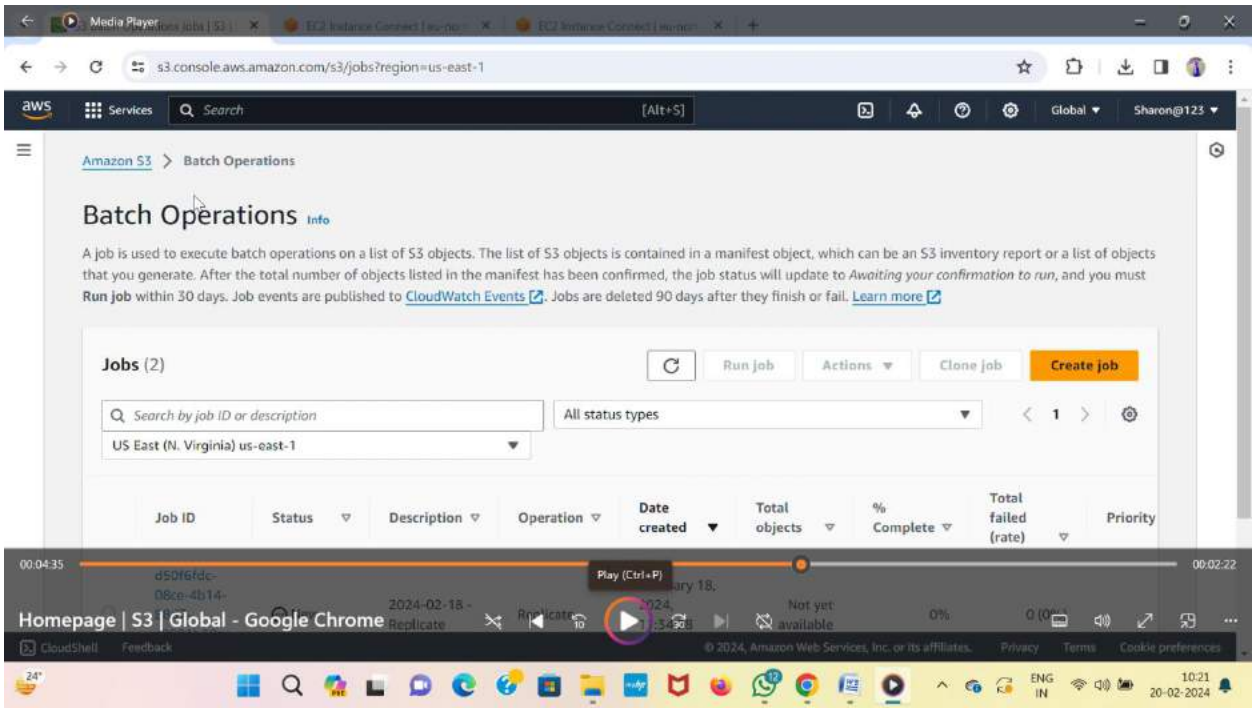
- If You Click yes then choose the destination path again and click on save button

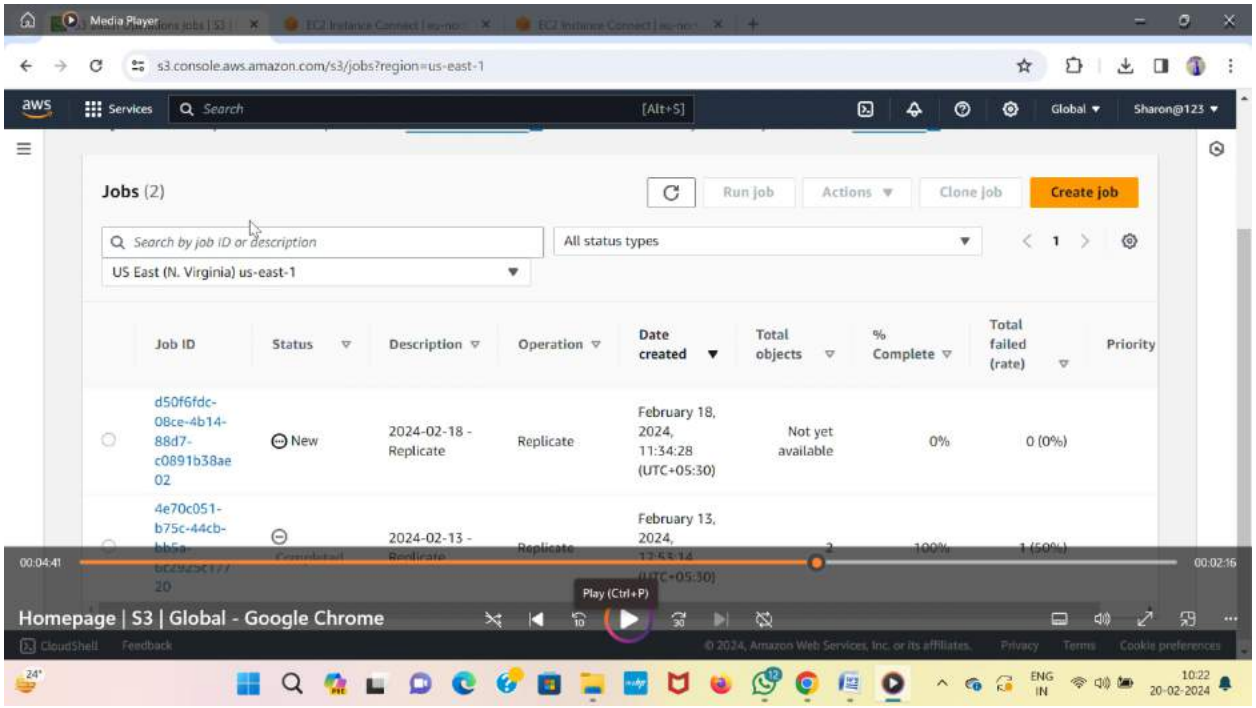




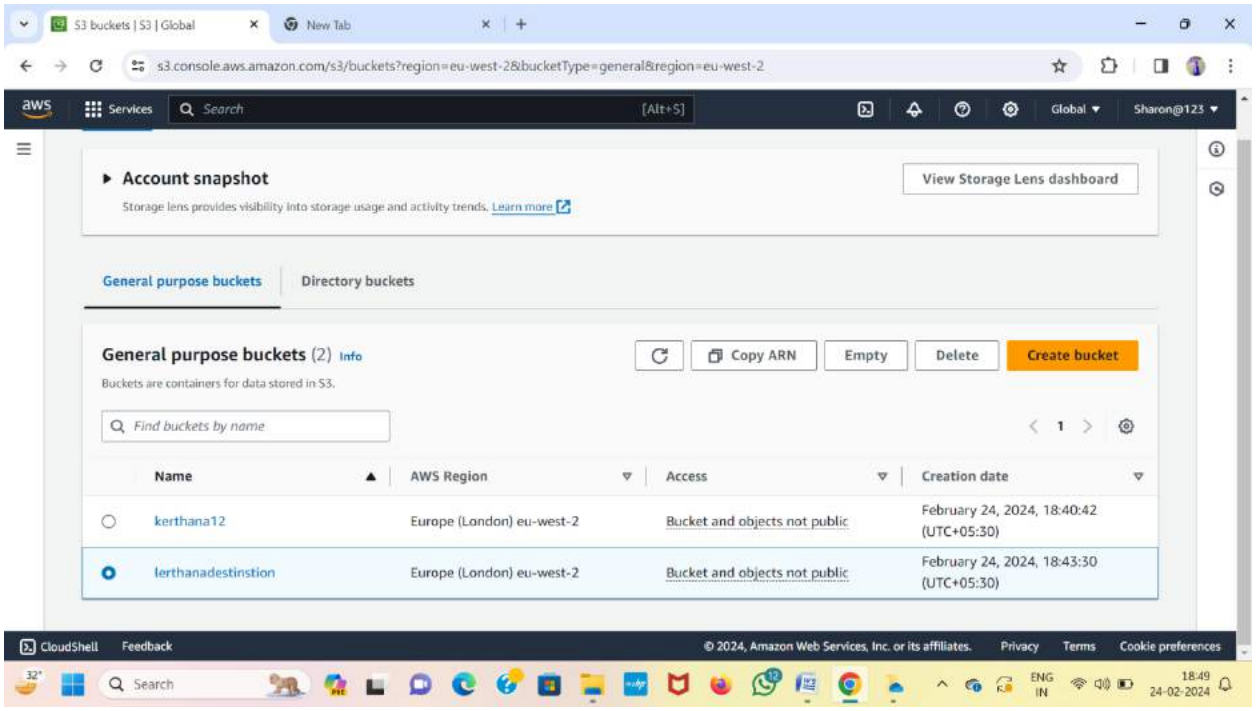


- After Save Button Click then one batch Operation Created that status is showing Preparing.
- Status is changed active then we can see the data into the destination bucket.

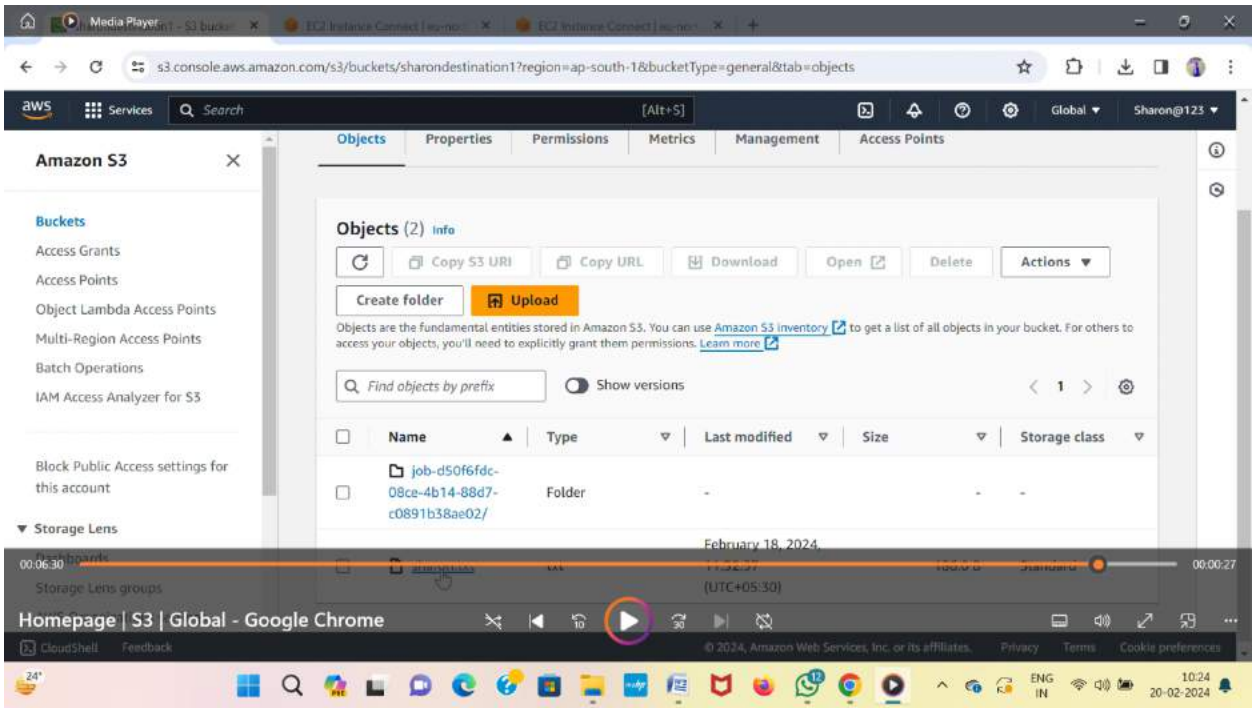




- Whenever Batch Operation Active go to Destination Bucket and see the data.



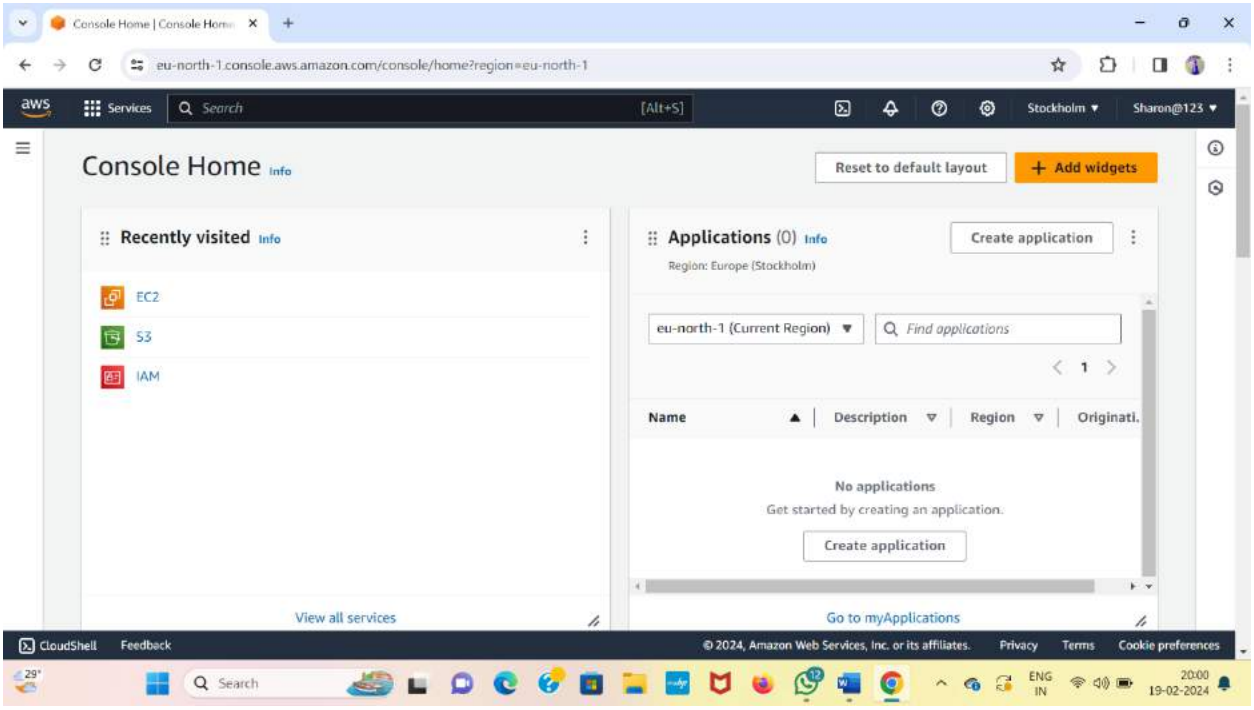
- Now See the data in Destination Bucket.



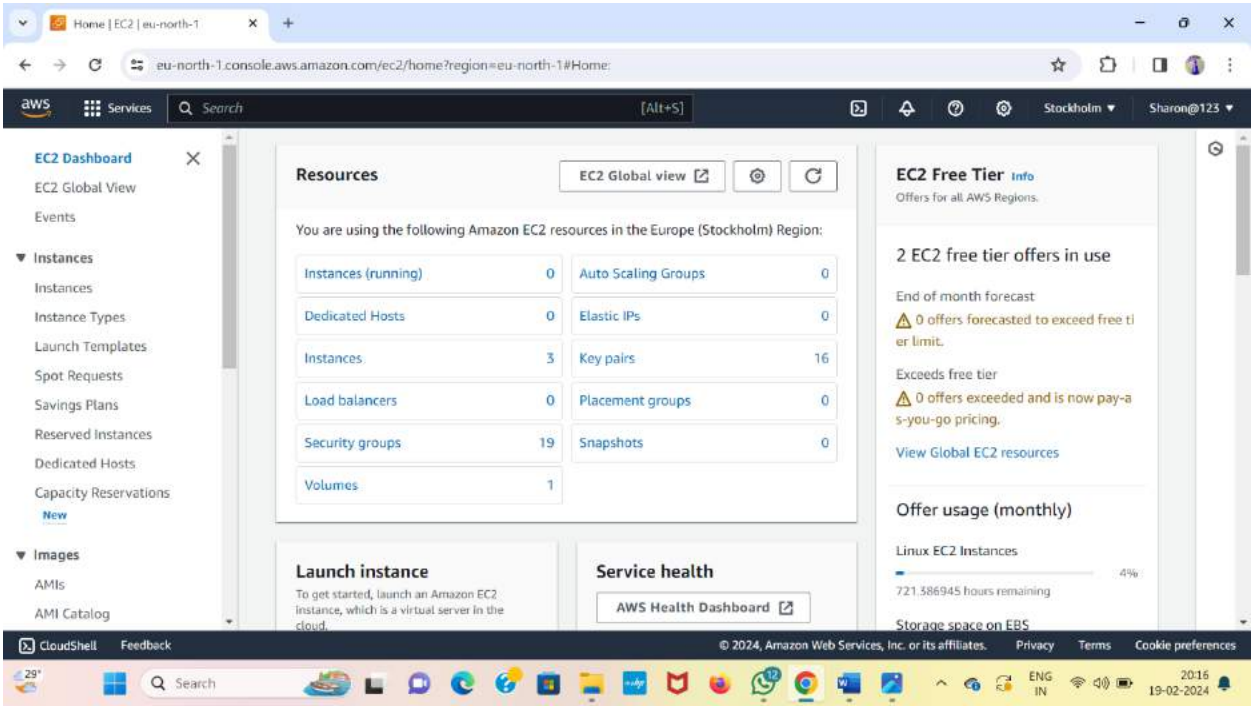
********** END **********

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

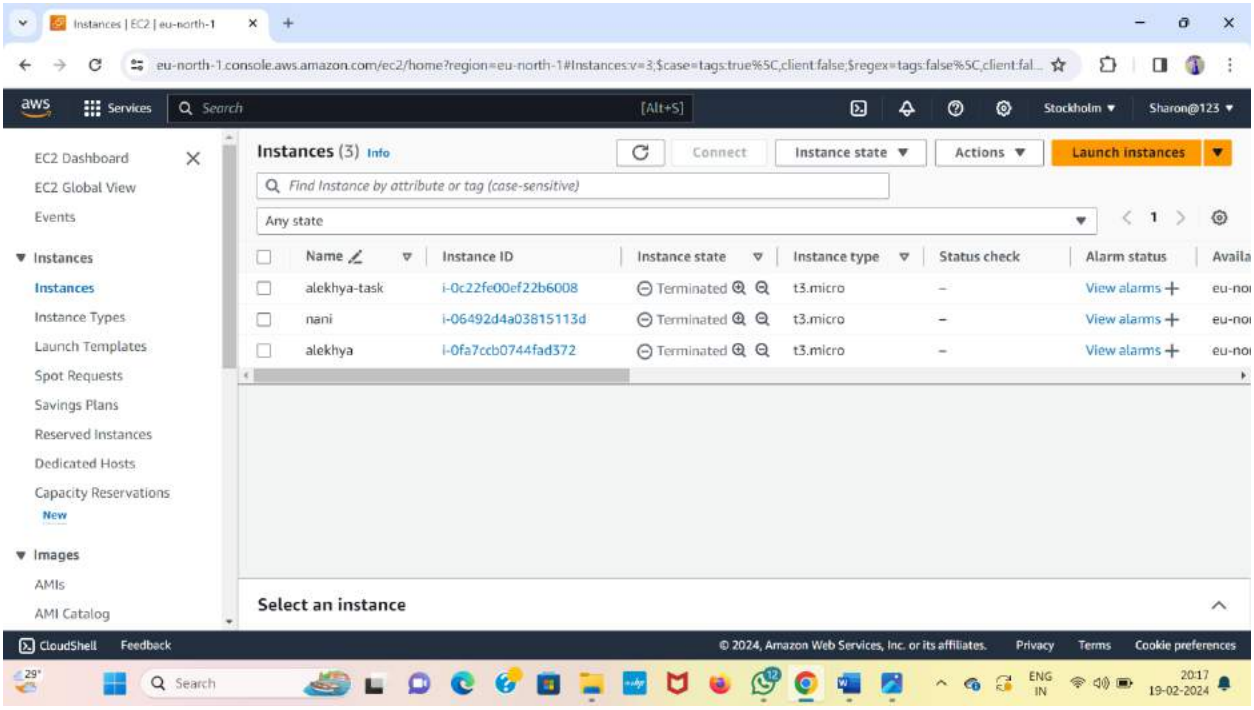


- Now we are in EC2 Dashboard
- Click on Instances

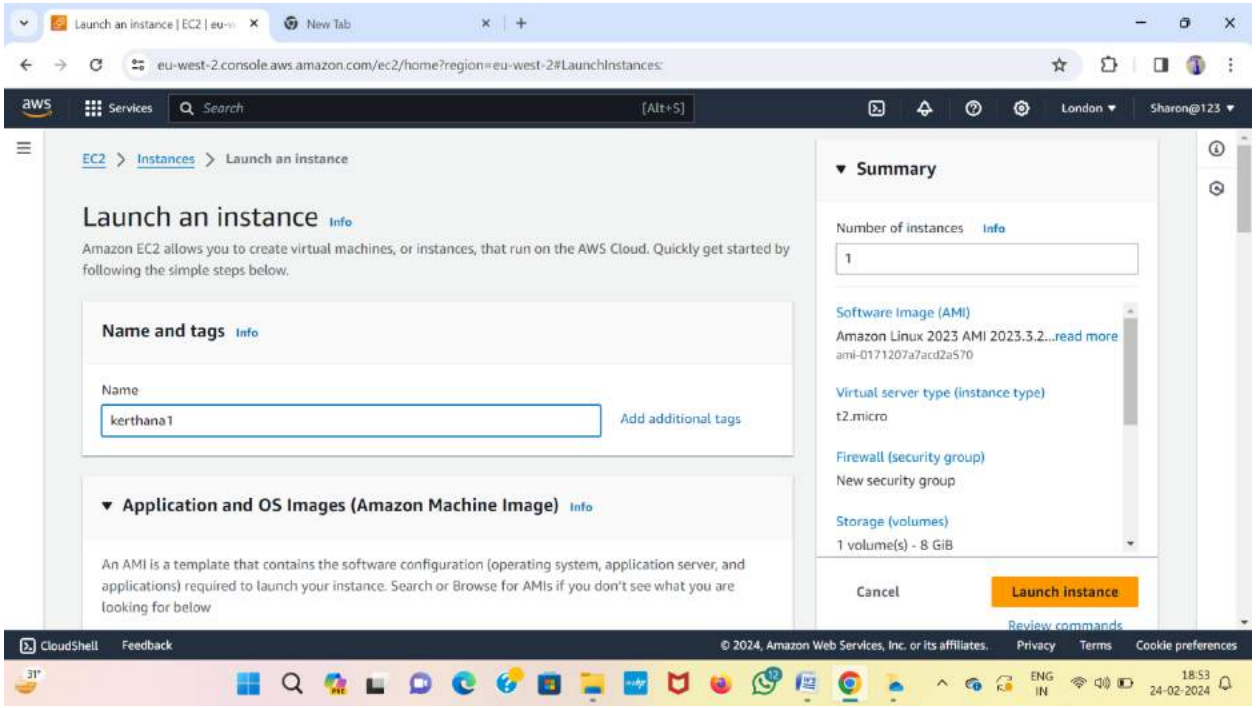


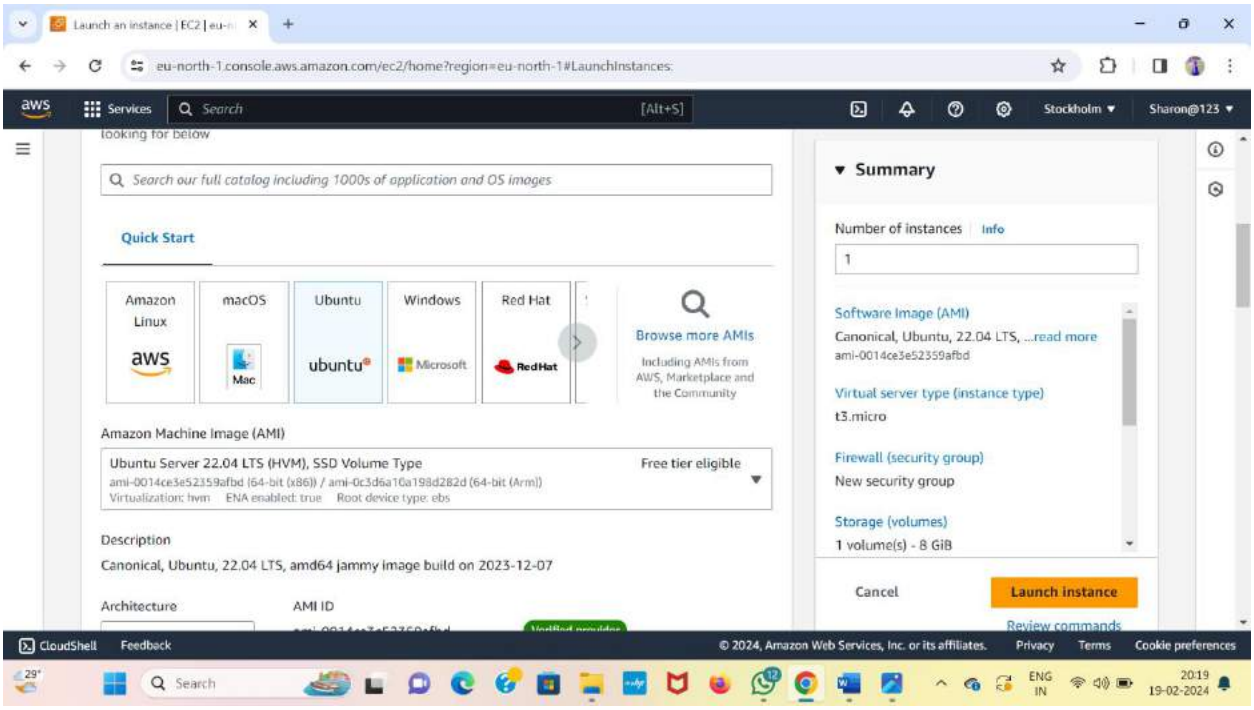
- Now Create One Server in any region

- Click on Launch Instances

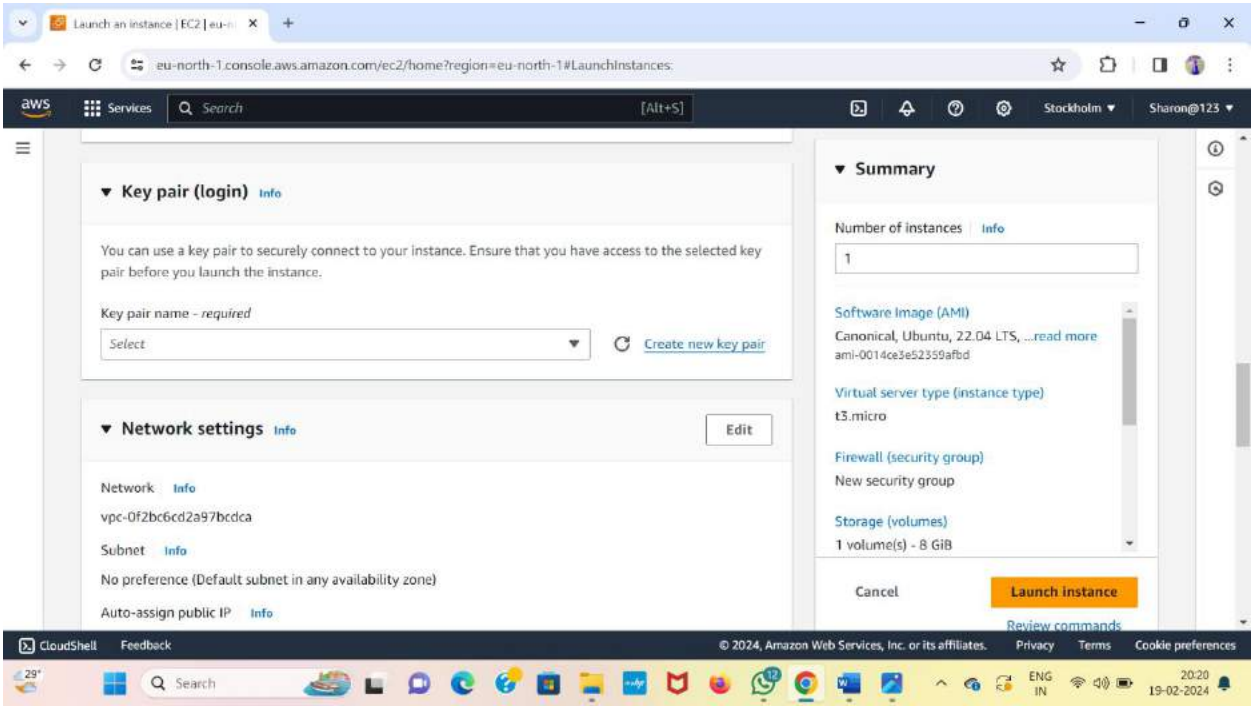


- Enter Name and select operating system

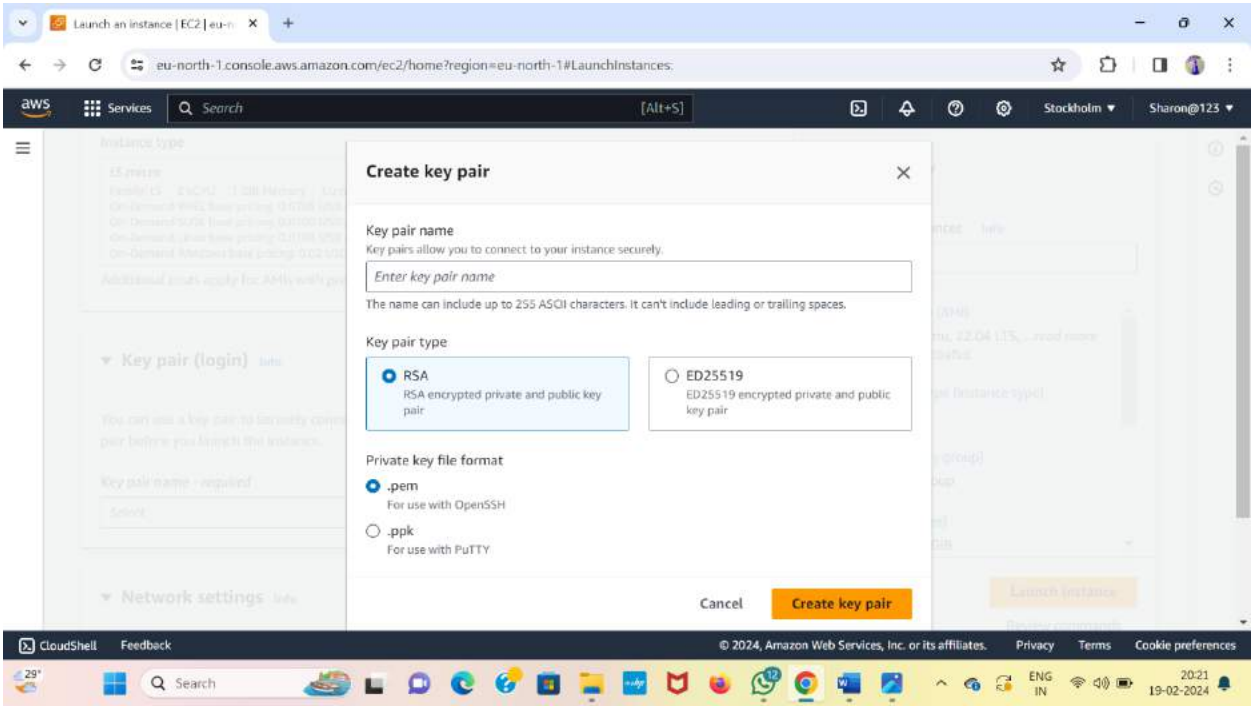




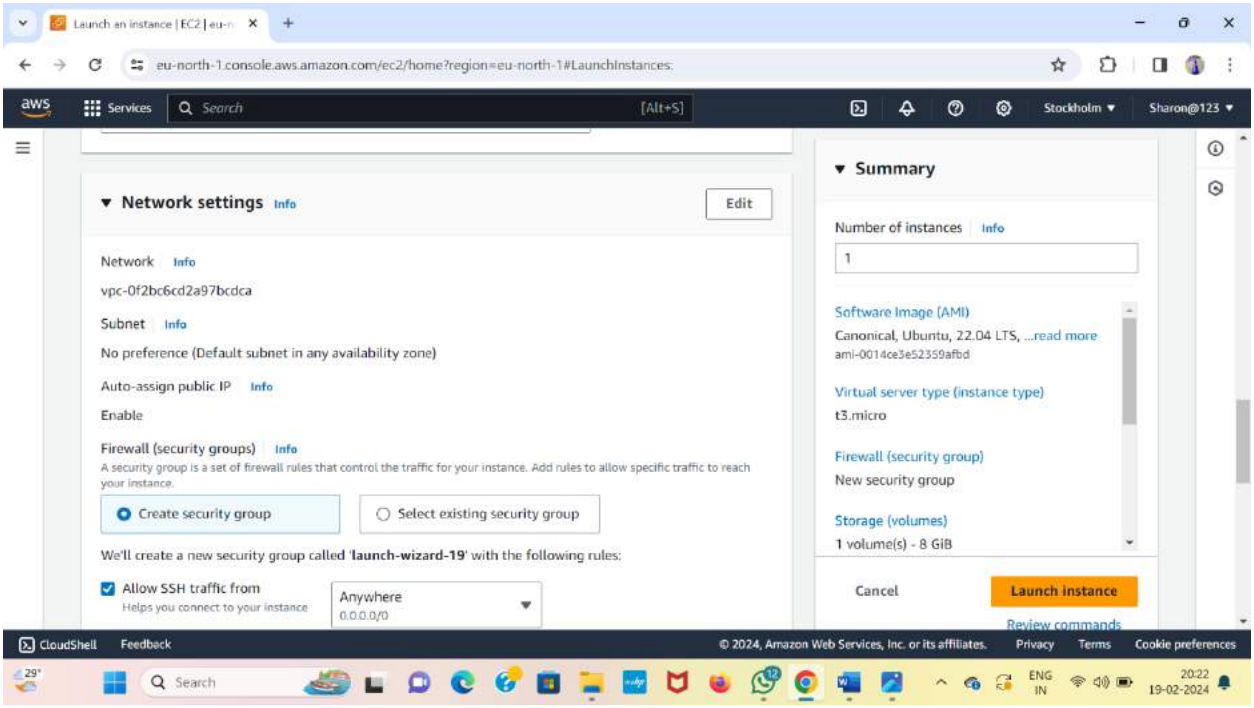
- Now Click a Create new key pair

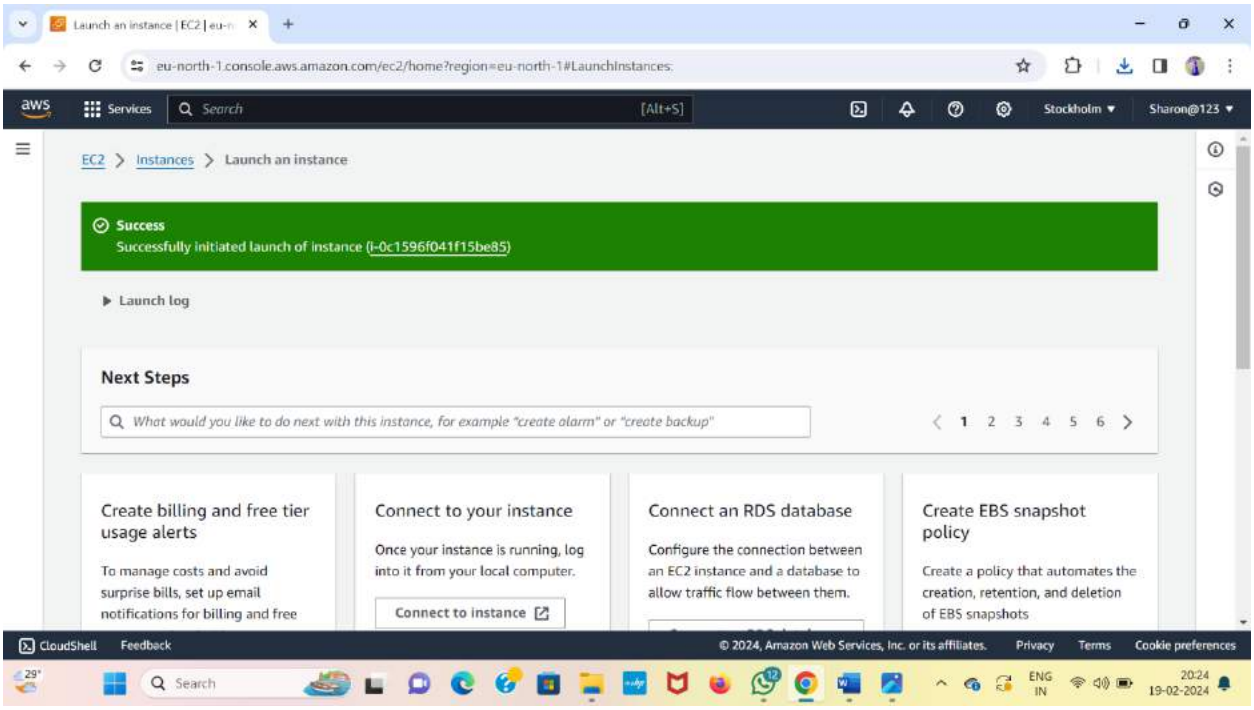


- Enter a key name and click on create key pair

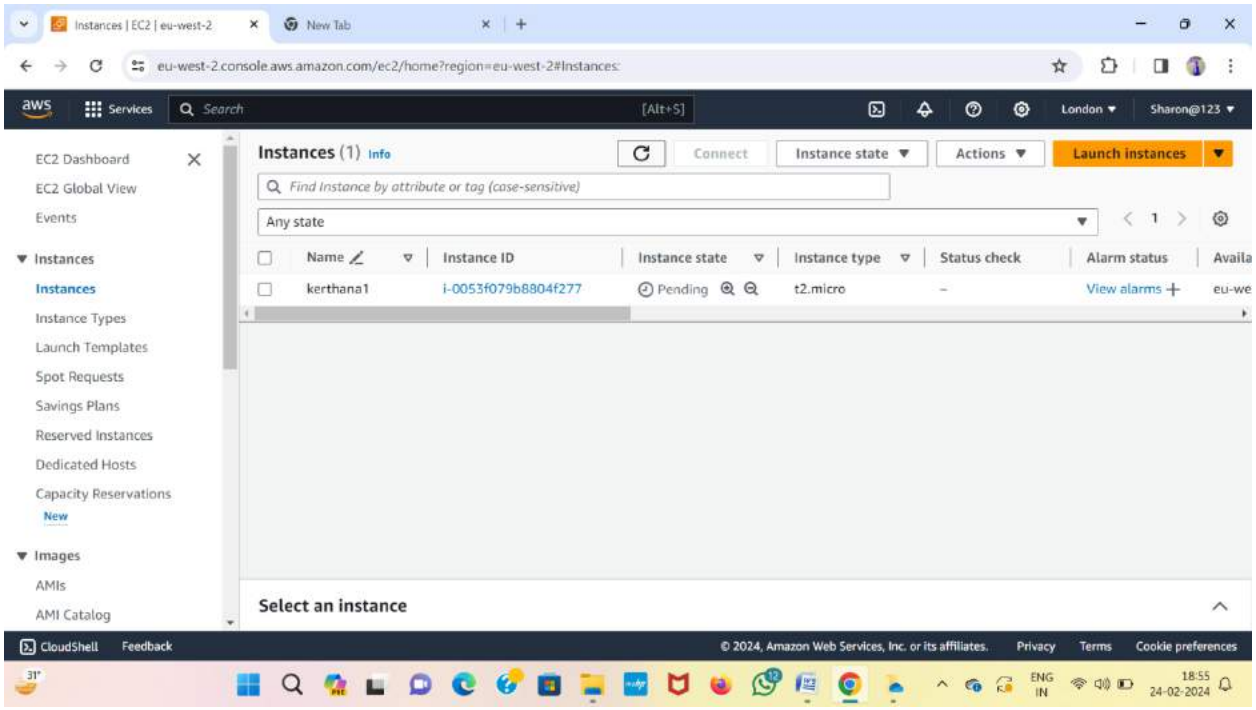


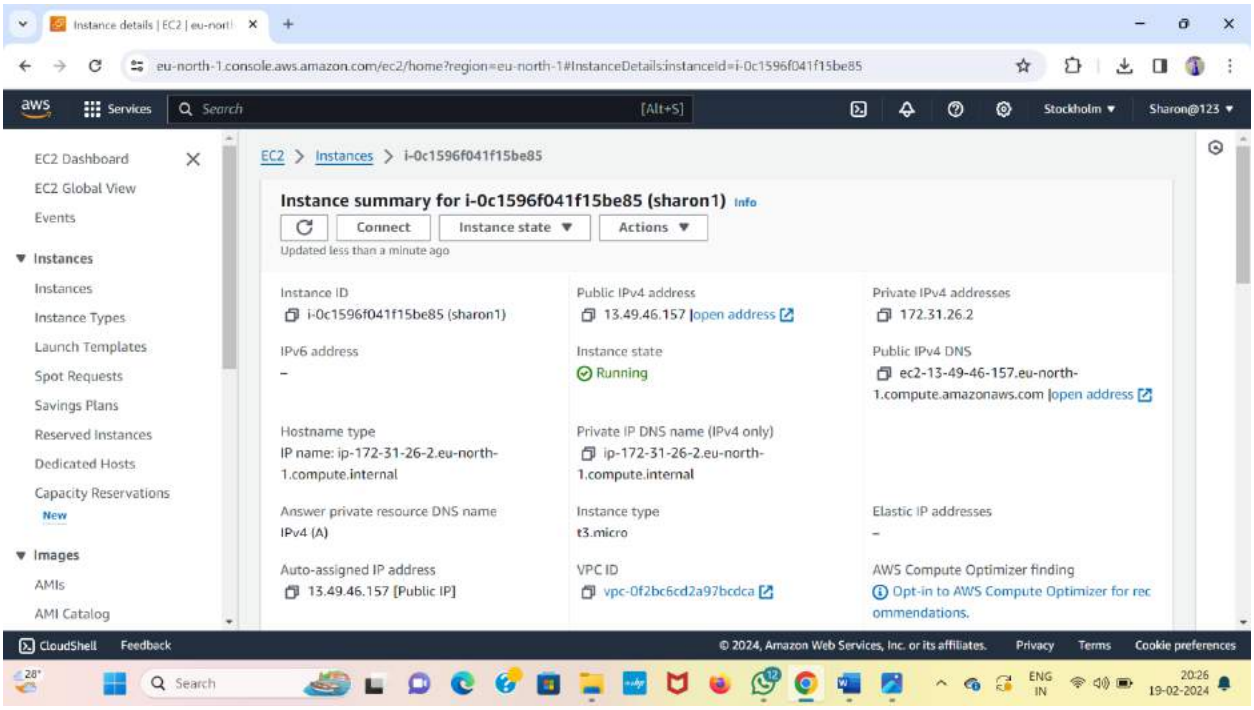
- Now Click on launch instance

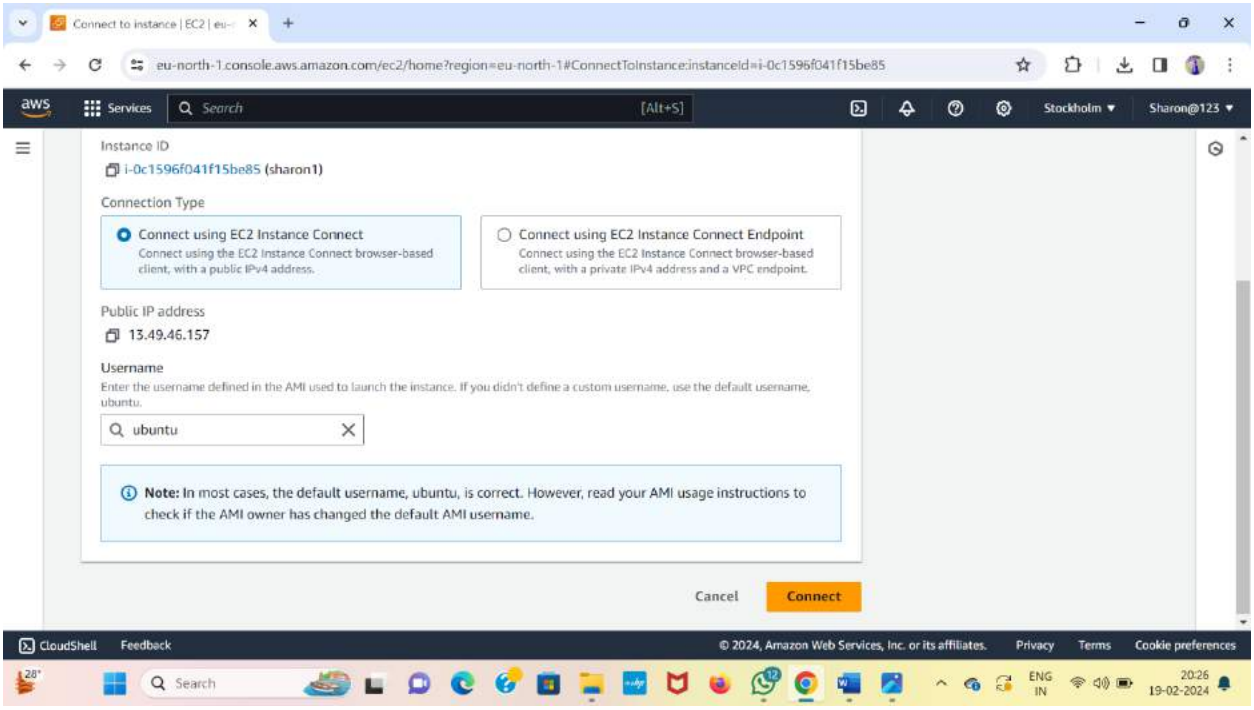




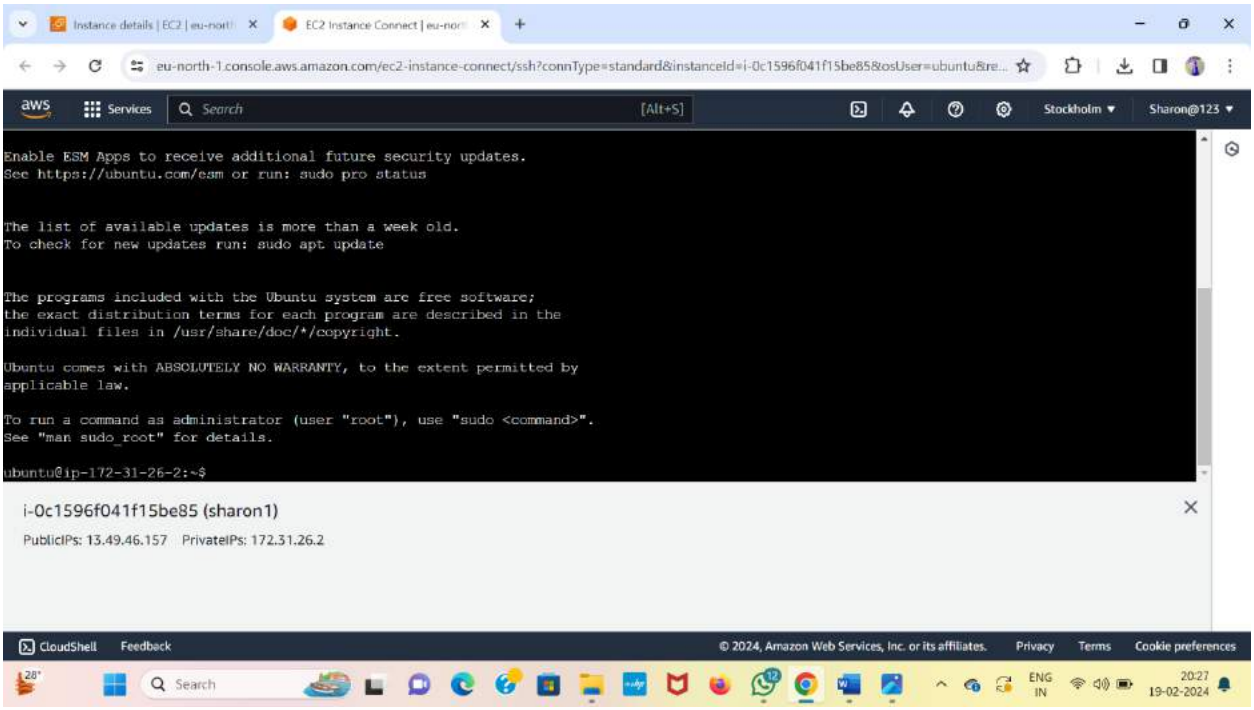
- One server (or) Instance Created and Click on instance id then connect



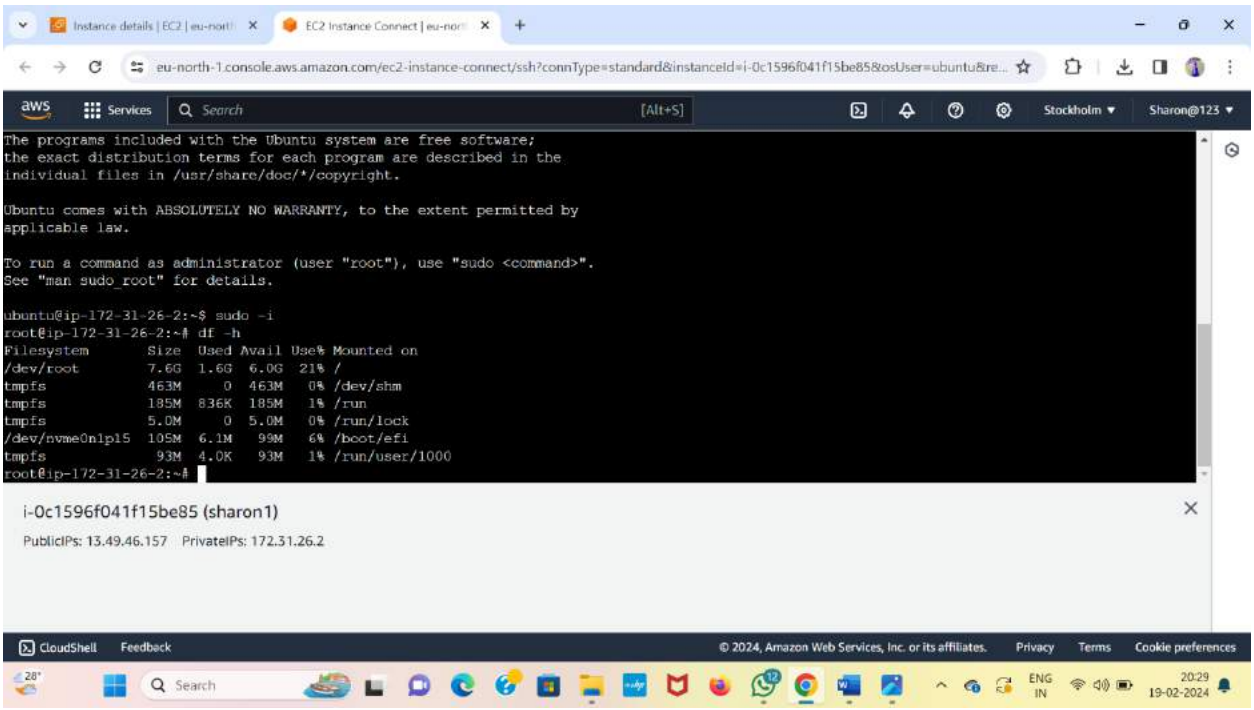

Instance details | EC2 | eu-north-1
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#InstanceDetails:instanceId=i-0c1596f041f15be85
aws
Services
Search
[Alt+S]
Stockholm
Sharon@123
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
New
Images
AMIs
AMI Catalog
EC2 > Instances > i-0c1596f041f15be85
Instance summary for i-0c1596f041f15be85 (sharon1) Info
Connect
Instance state
Actions
Updated less than a minute ago
Instance ID
i-0c1596f041f15be85 (sharon1)
Public IPv4 address
13.49.46.157 |open address
Private IPv4 addresses
172.31.26.2
IPv6 address
-
Instance state
Running
Public IPv4 DNS
ec2-13-49-46-157.eu-north-1.compute.amazonaws.com |open address
Hostname type
IP name: ip-172-31-26-2.eu-north-1.compute.internal
Private IP DNS name (IPv4 only)
ip-172-31-26-2.eu-north-1.compute.internal
Answer private resource DNS name
IPv4 (A)
Instance type
t3.micro
Elastic IP addresses
-
Auto-assigned IP address
13.49.46.157 [Public IP]
VPC ID
vpc-0f2bc6cd2a97bcdca
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations.
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Search
ENG
IN
20:26
19-02-2024


Connect to instance | EC2 | eu-
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#ConnectToInstance:instanceId=i-0c1596f041f15be85
aws
Services
Search
[Alt+S]
Stockholm
Sharon@123
Instance ID
i-0c1596f041f15be85 (sharon1)
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
13.49.46.157
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
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Search
ENG
IN
20:26
19-02-2024

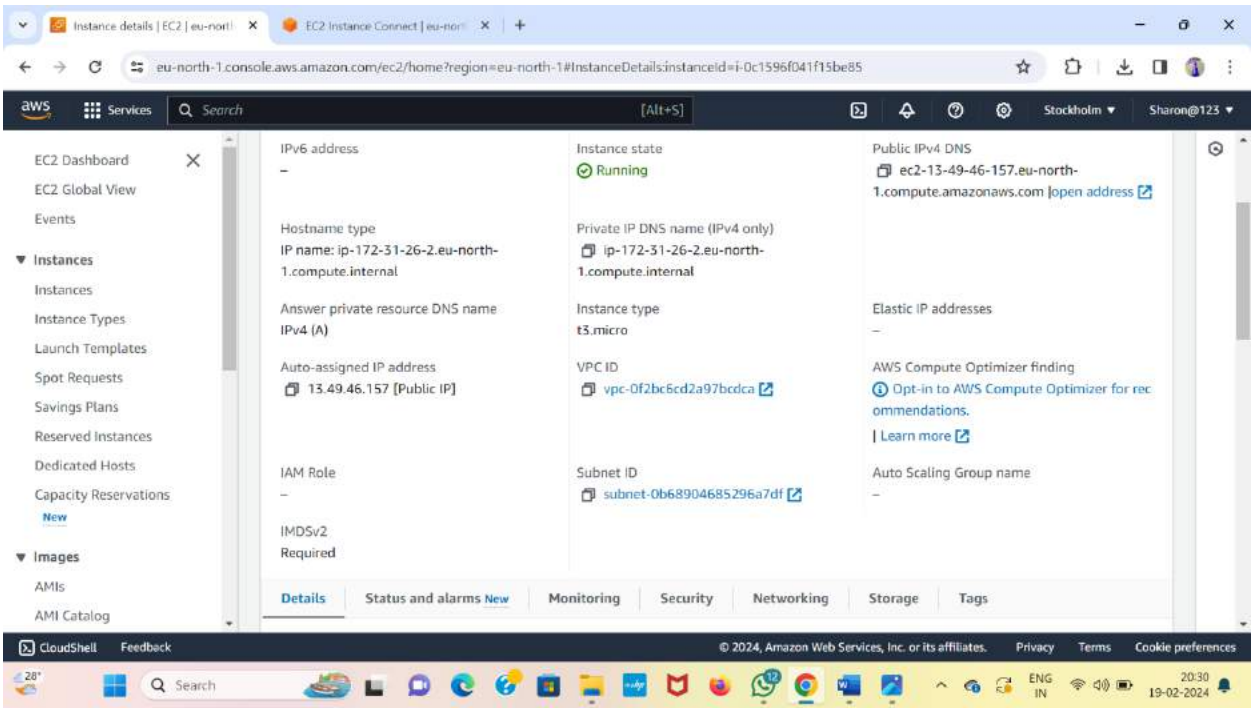
- Now Connected server



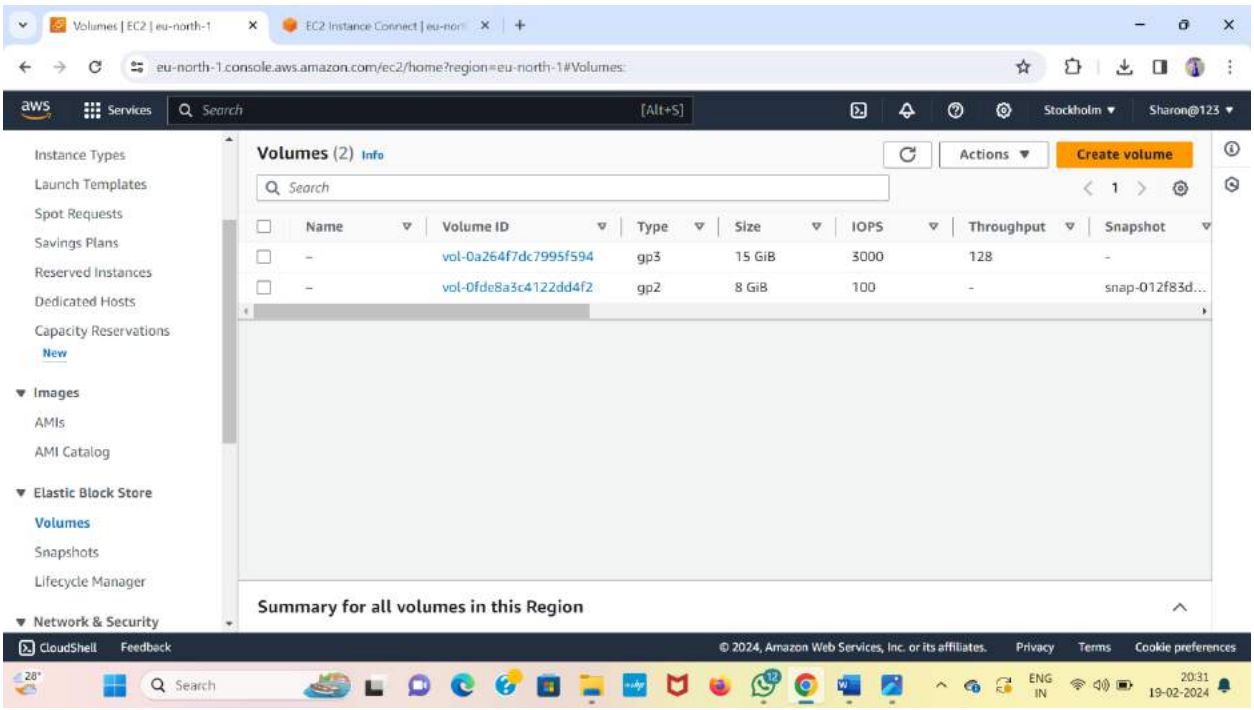
- **df –h** this command check user size



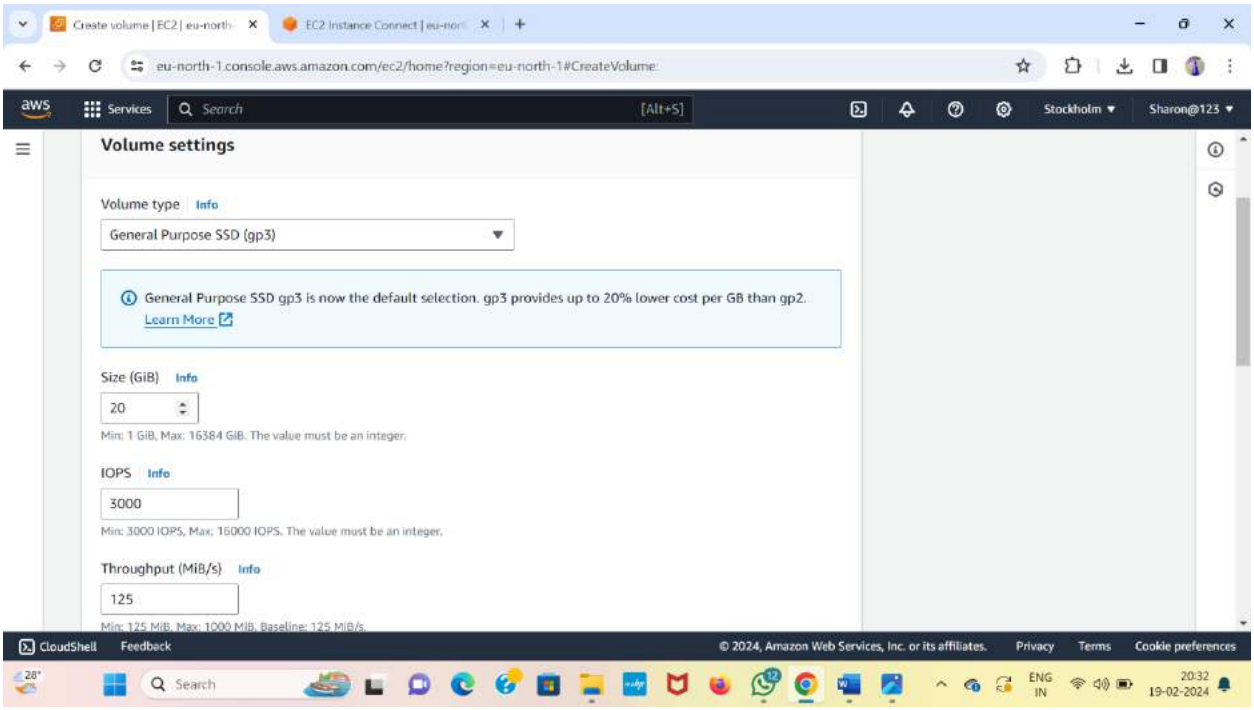
- Now go to ebs then volumes

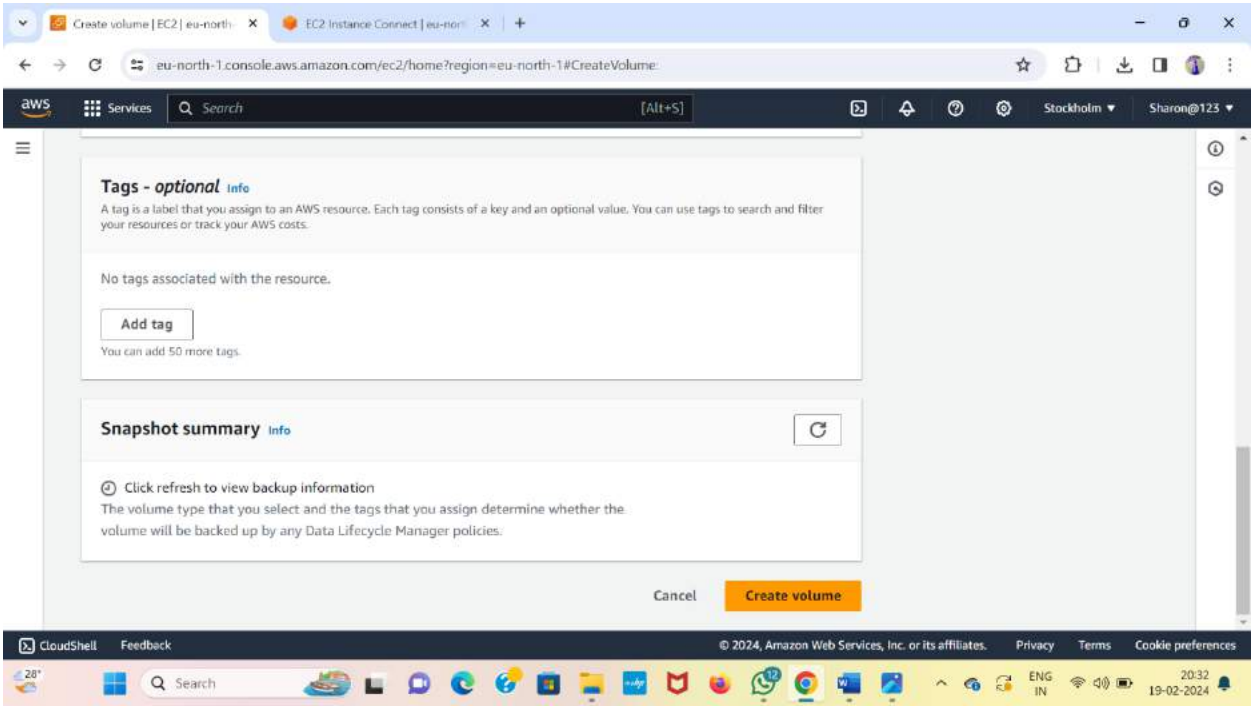


- Click on Create Volume

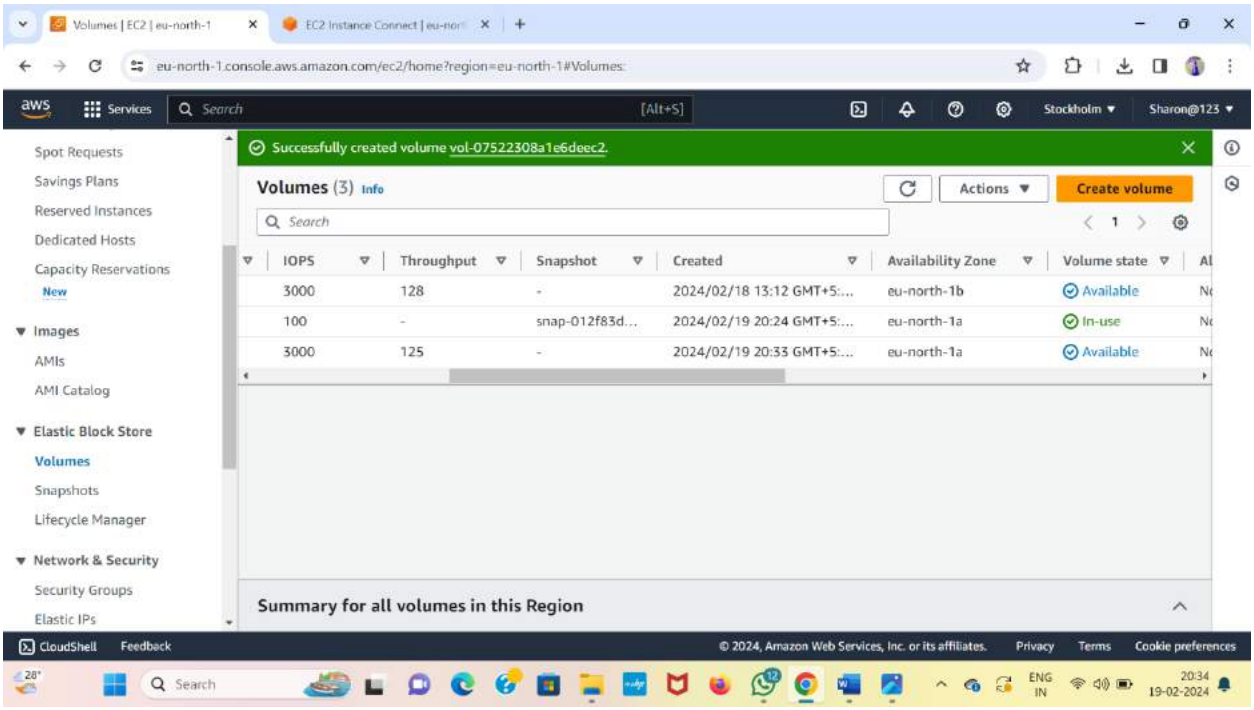


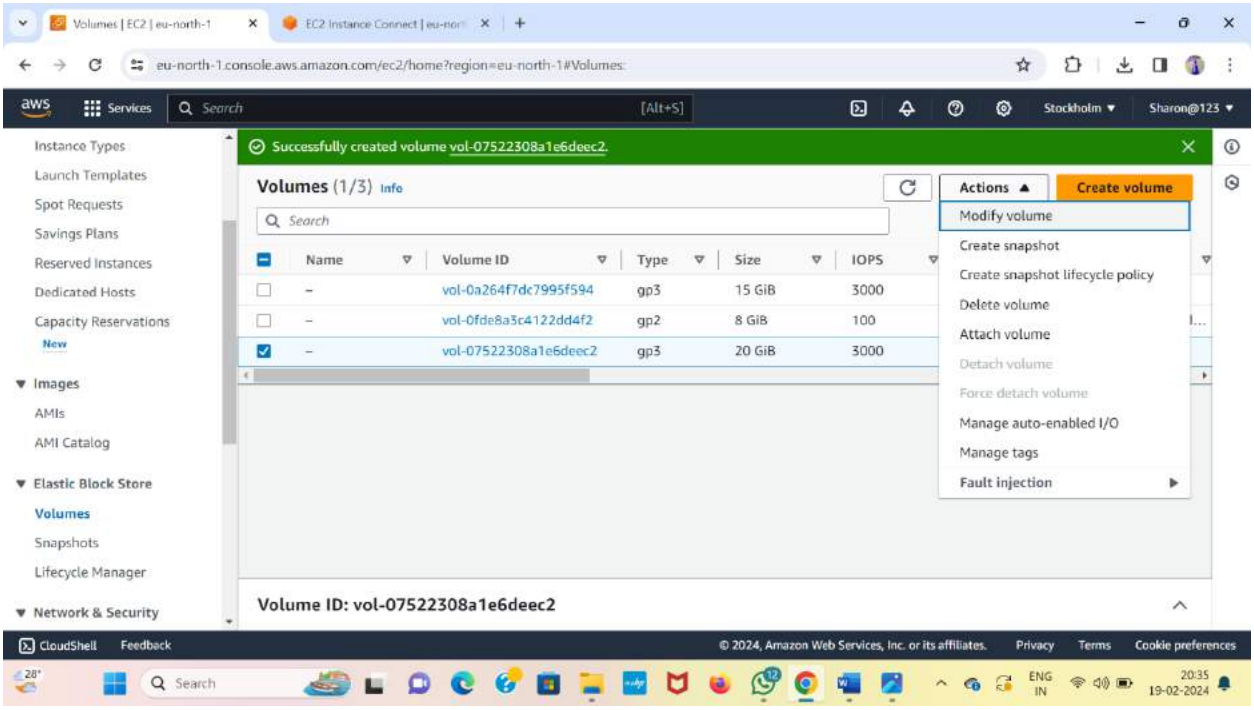
- Enter the size what ever you want then select same availability zone of EC2 then create volume

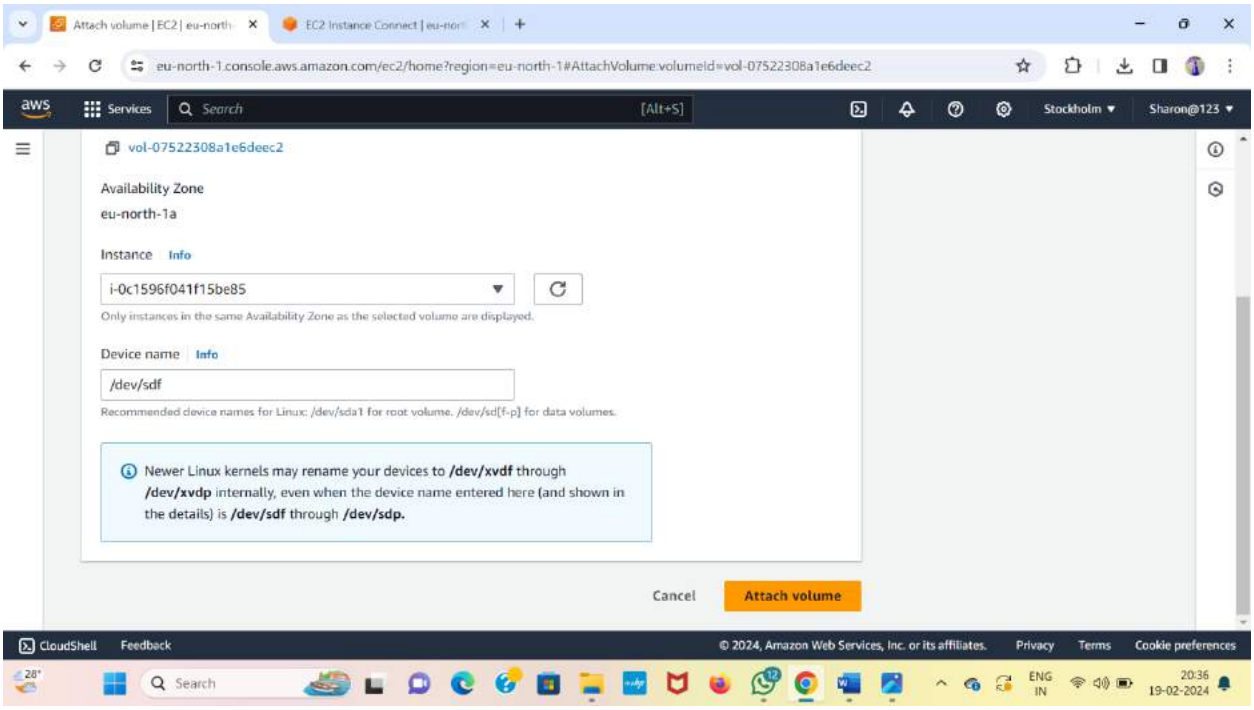


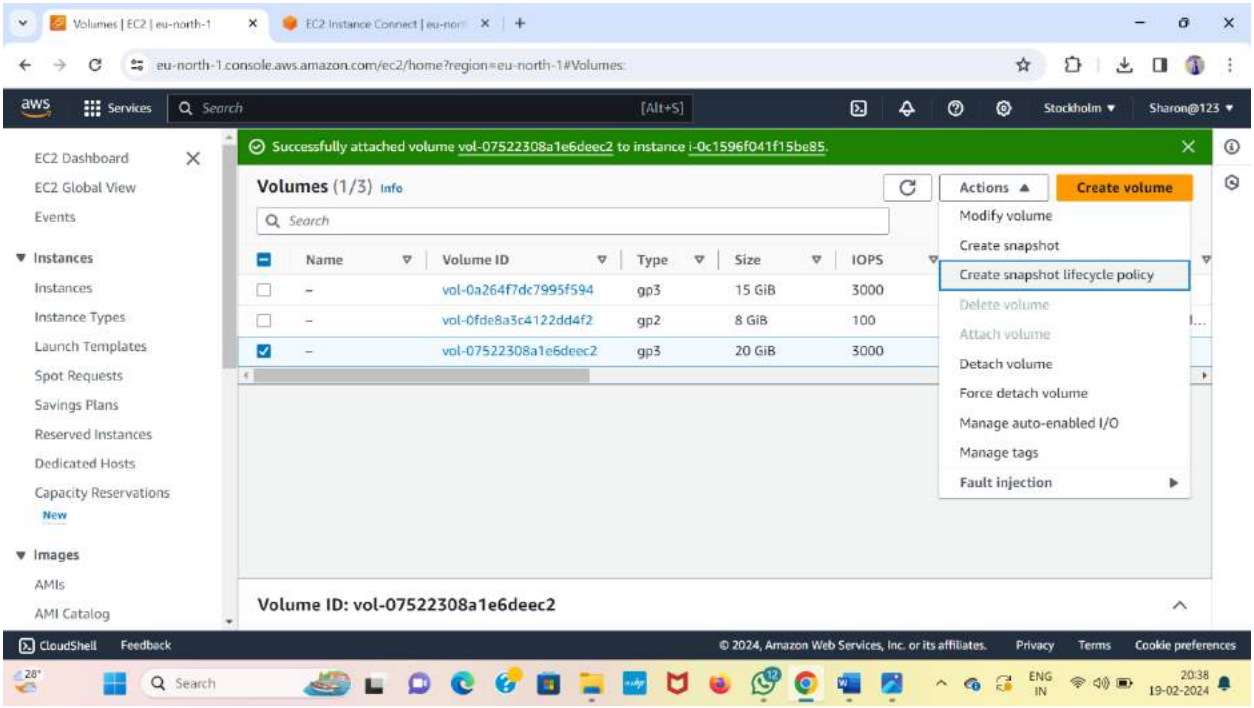


- After Create a volume see the status of created volume it is available state is showing.
- Select that volume and attach volume to our first instance.
- After Attach volume that should be disable. And detach is enable.



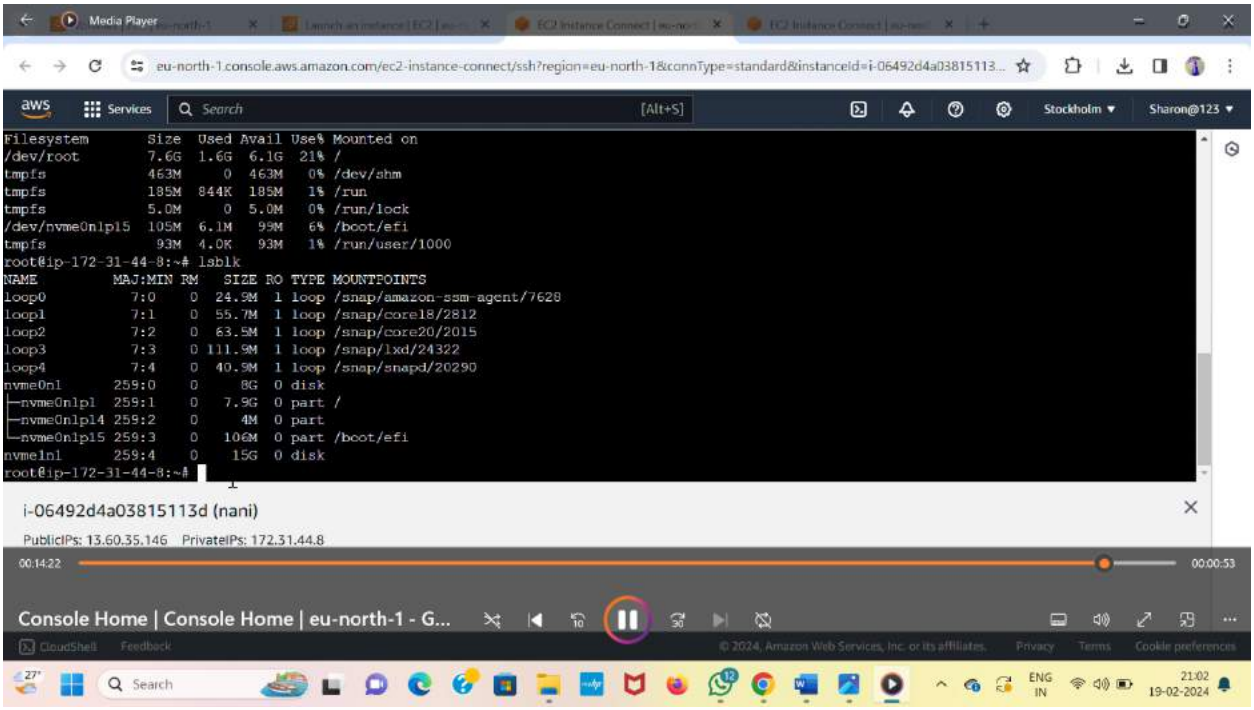




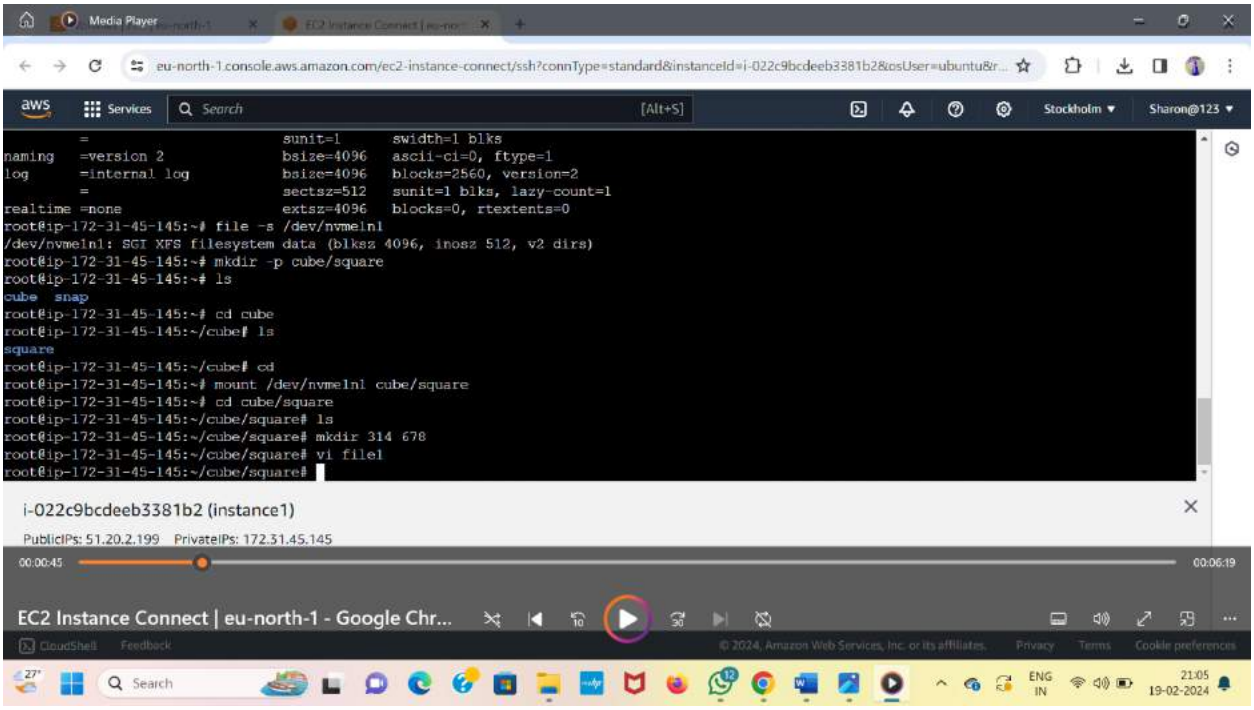


- Now Go to EC2 Connected server

- 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


Media Player
eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-022c9bcdeeb3381b2&osUser=ubuntu&r...
aws
Services
Search
[Alt+S]
Stockholm
Sharon@123
= sunit=1 swidth=1 blks
naming =version 2 bsize=4096 ascii-ci=0, ftype=1
log =internal log bsize=4096 blocks=2560, version=2
= sectsz=512 sunit=1 blks, lazy-count=1
realtime =none extsz=4096 blocks=0, rtextents=0
root@ip-172-31-45-145:~# file -s /dev/nvme1n1
/dev/nvme1n1: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
root@ip-172-31-45-145:~# mkdir -p cube/square
root@ip-172-31-45-145:~# ls
cube snap
root@ip-172-31-45-145:~# cd cube
root@ip-172-31-45-145:~/cube# ls
square
root@ip-172-31-45-145:~/cube# cd
root@ip-172-31-45-145:~# mount /dev/nvme1n1 cube/square
root@ip-172-31-45-145:~# cd cube/square
root@ip-172-31-45-145:~/cube/square# ls
root@ip-172-31-45-145:~/cube/square# mkdir 314 678
root@ip-172-31-45-145:~/cube/square# vi file1
root@ip-172-31-45-145:~/cube/square#
i-022c9bcdeeb3381b2 (instance1)
PublicIPs: 51.20.2.199 PrivateIPs: 172.31.45.145
00:00:45
00:06:19
EC2 Instance Connect | eu-north-1 - Google Chr...
CloudShell
Feedback
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Terms
Cookie preferences
Search
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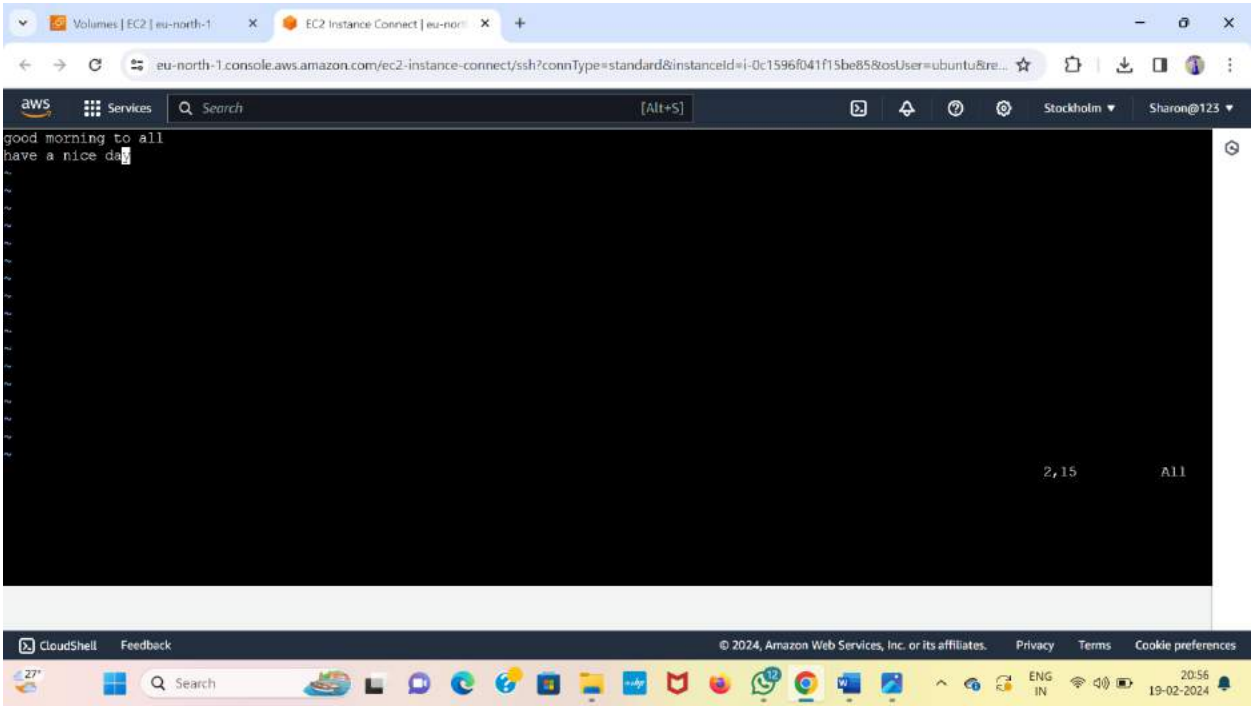
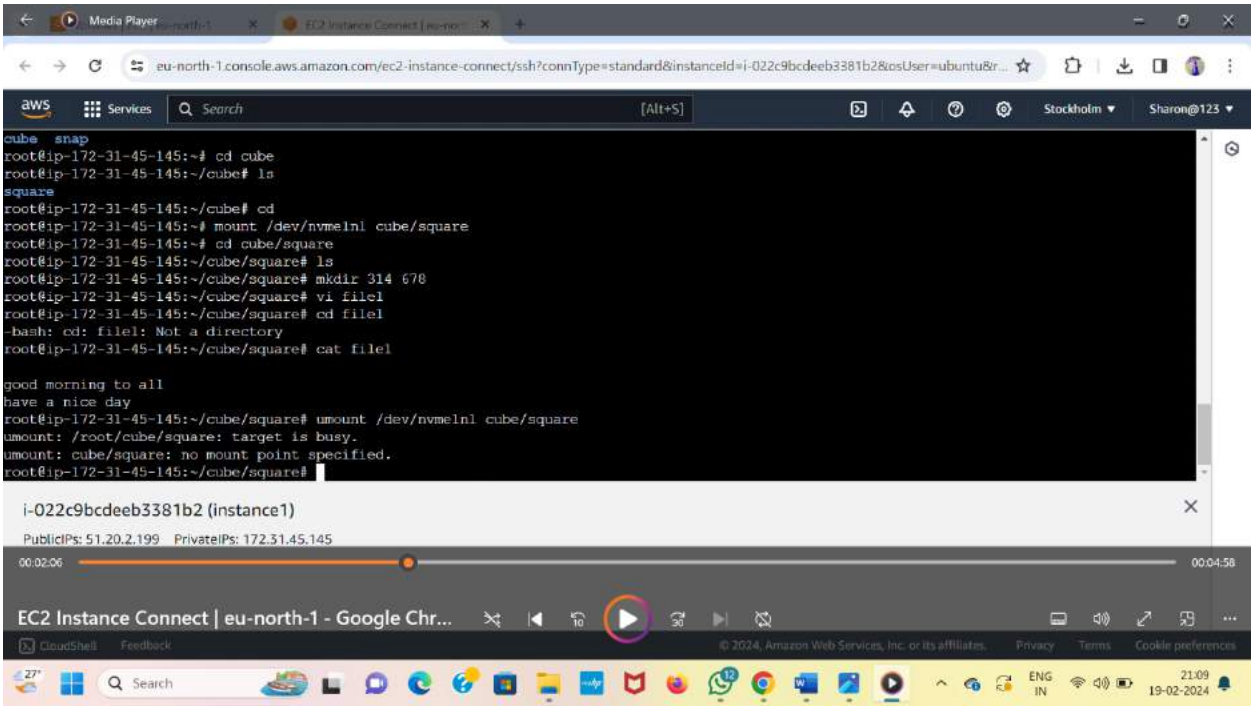
19-02-2024


Volumes | EC2 | eu-north-1
EC2 Instance Connect | eu-north-1
eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0c1596f041f15be85&osUser=ubuntu&re...
aws
Services
Search
[Alt+S]
Stockholm
Sharon@123
good morning to all
have a nice da
2,15
All
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Search
ENG
IN
20:56
19-02-2024


Media Player
eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-022c9bcdeeb3381b2&osUser=ubuntu&r...
aws
Services
Search
[Alt+S]
Stockholm
Sharon@123
cube snap
root@ip-172-31-45-145:~# cd cube
root@ip-172-31-45-145:~/cube# ls
square
root@ip-172-31-45-145:~/cube# cd
root@ip-172-31-45-145:~# mount /dev/nvme1n1 cube/square
root@ip-172-31-45-145:~# cd cube/square
root@ip-172-31-45-145:~/cube/square# ls
root@ip-172-31-45-145:~/cube/square# mkdir 314 678
root@ip-172-31-45-145:~/cube/square# vi file1
root@ip-172-31-45-145:~/cube/square# cd file1
-bash: cd: file1: Not a directory
root@ip-172-31-45-145:~/cube/square# cat file1
good morning to all
have a nice day
root@ip-172-31-45-145:~/cube/square# umount /dev/nvme1n1 cube/square
umount: /root/cube/square: target is busy.
umount: cube/square: no mount point specified.
root@ip-172-31-45-145:~/cube/square#
i-022c9bcdeeb3381b2 (instance1)
PublicIPs: 51.20.2.199 PrivateIPs: 172.31.45.145
00:02:06
00:04:58
EC2 Instance Connect | eu-north-1 - Google Chr...
CloudShell
Feedback
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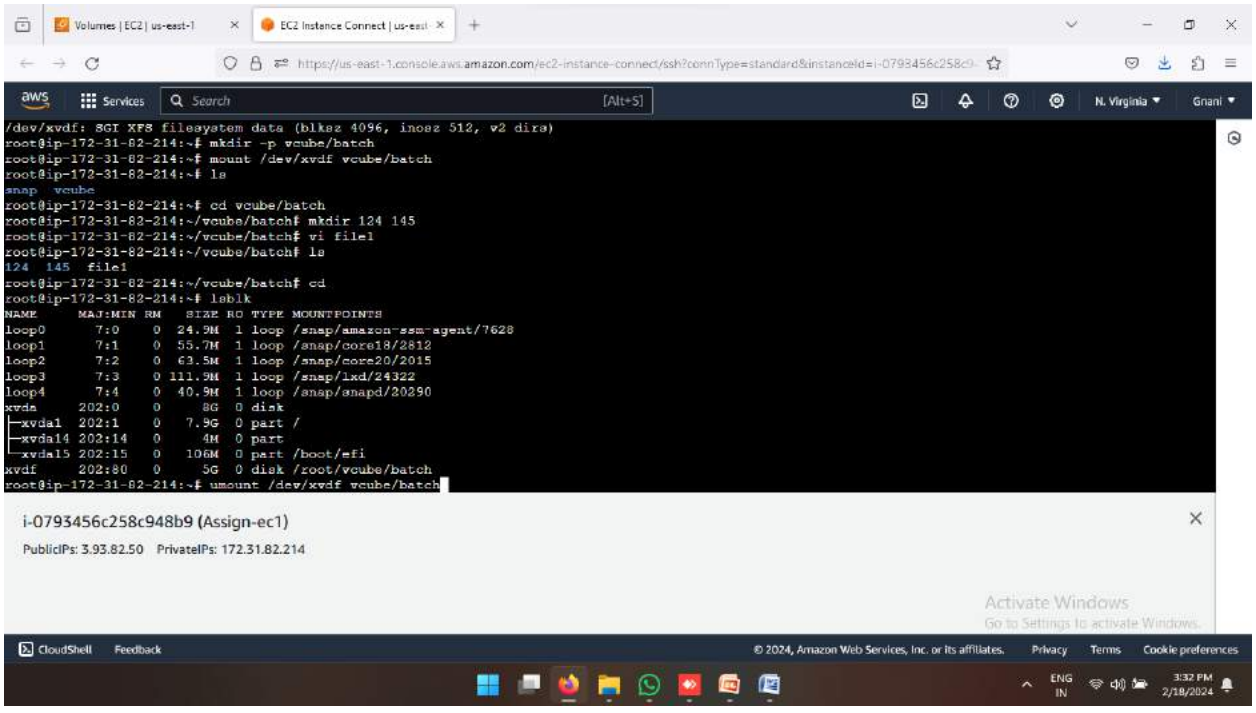
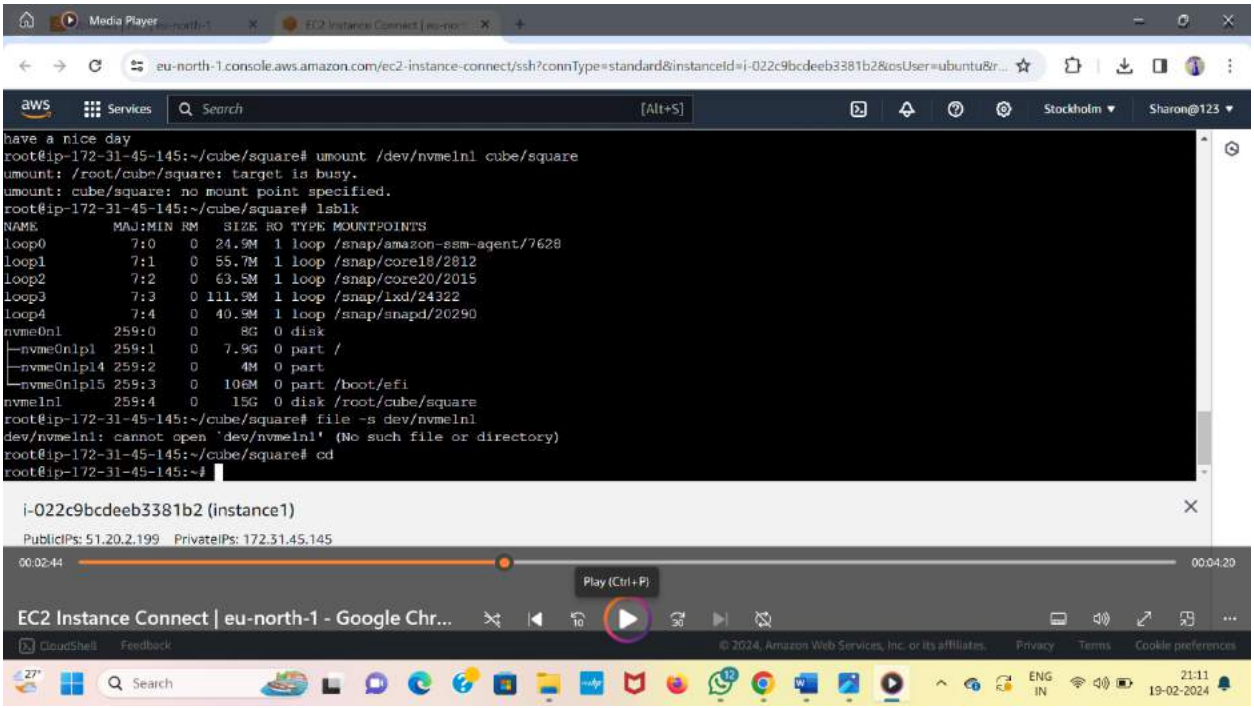
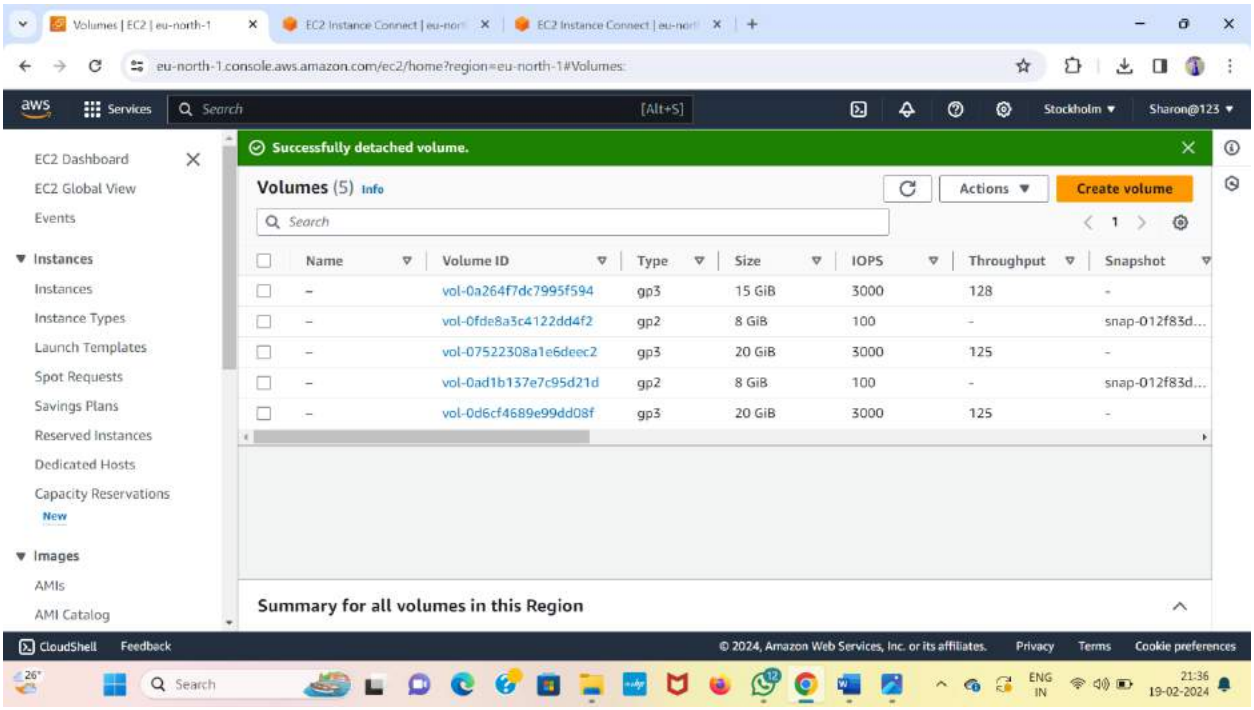
Privacy
Terms
Cookie preferences
Search
ENG
IN
21:09
19-02-2024

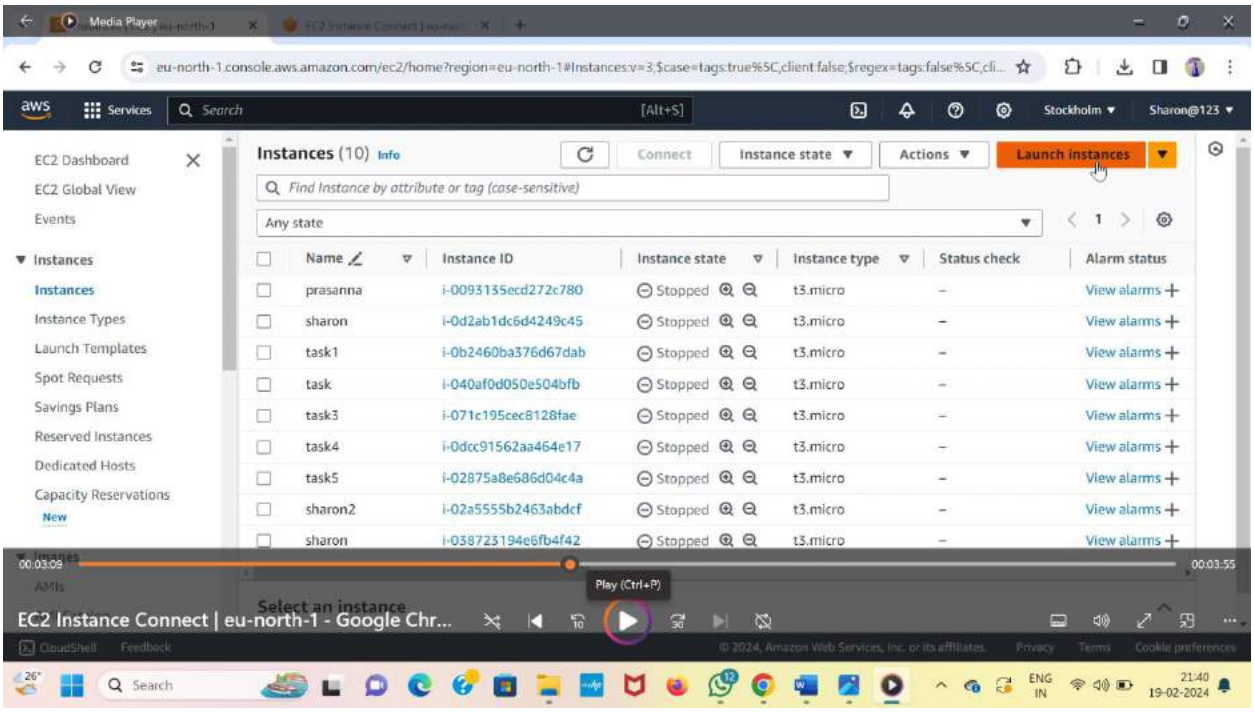

Volumes | EC2 | us-east-1
EC2 Instance Connect | us-east
https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0793456c258c9...
aws
Services
Search
[Alt+S]
N. Virginia
Gnani
/dev/xvdf: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
root@ip-172-31-82-214:~# 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
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
ENG
IN
3:32 PM
2/18/2024

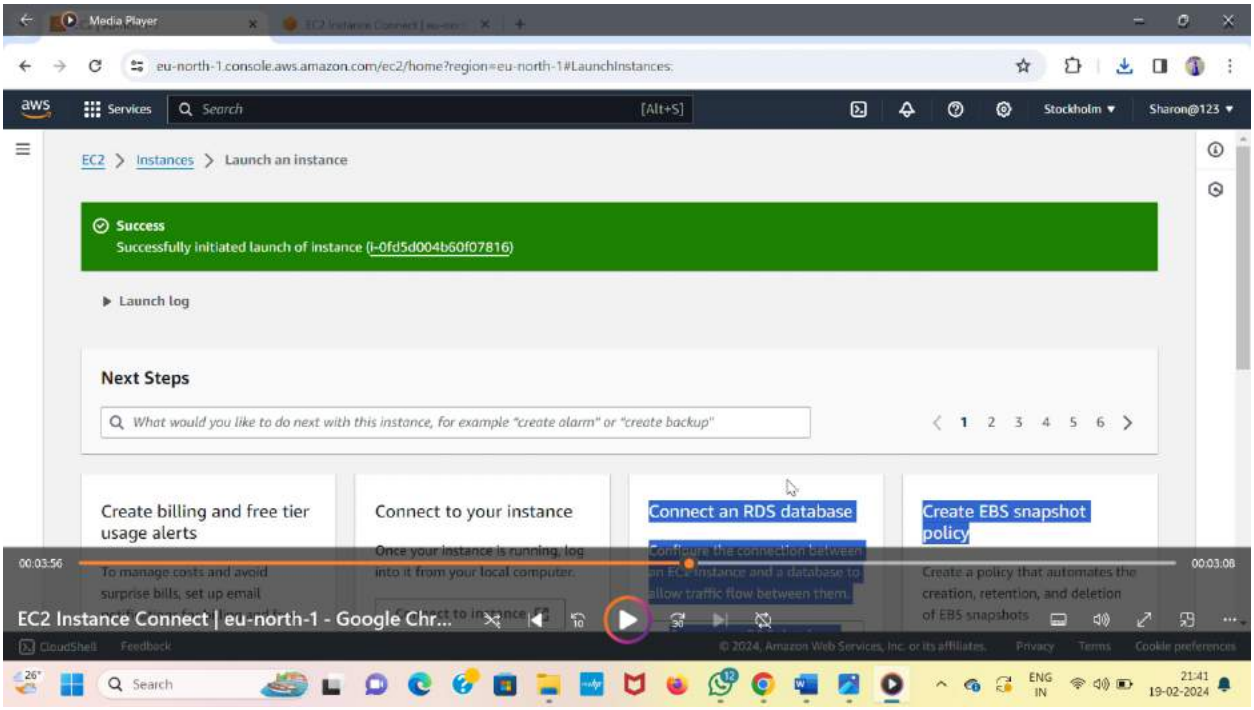


- Now go to Volumes and detach the volume to instance

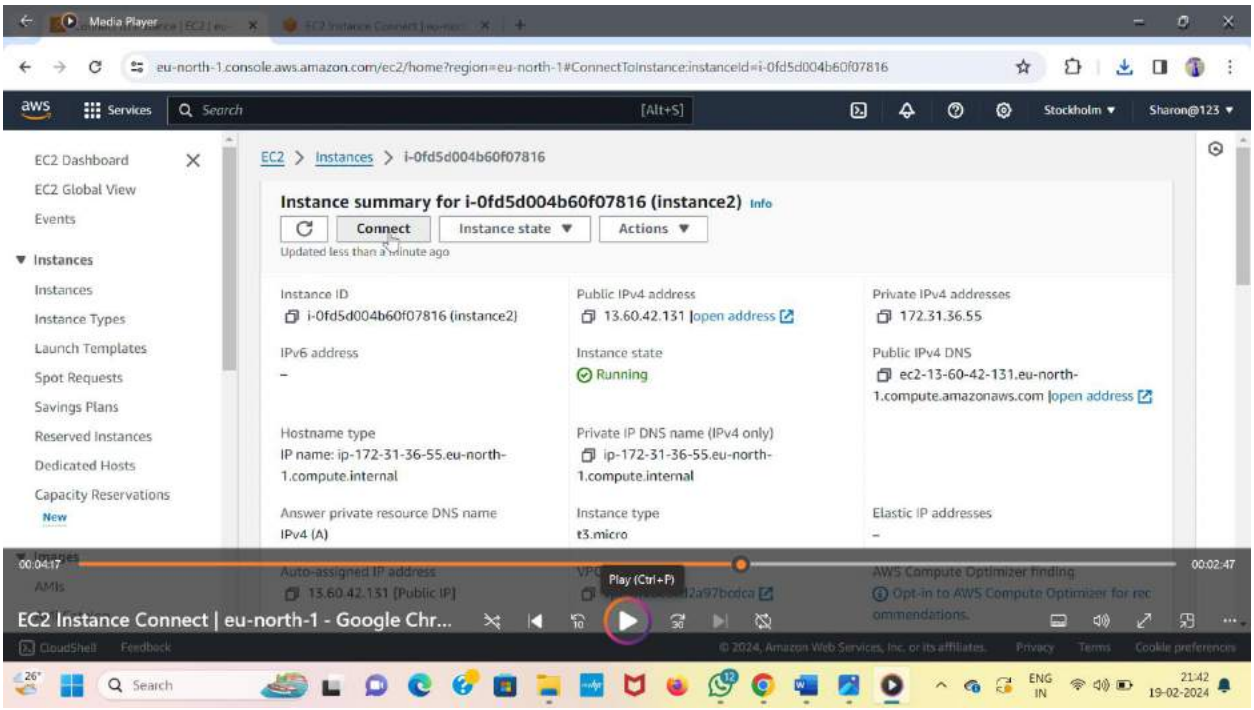


- Now to EC2 Instance and create one more instance in same availability zone

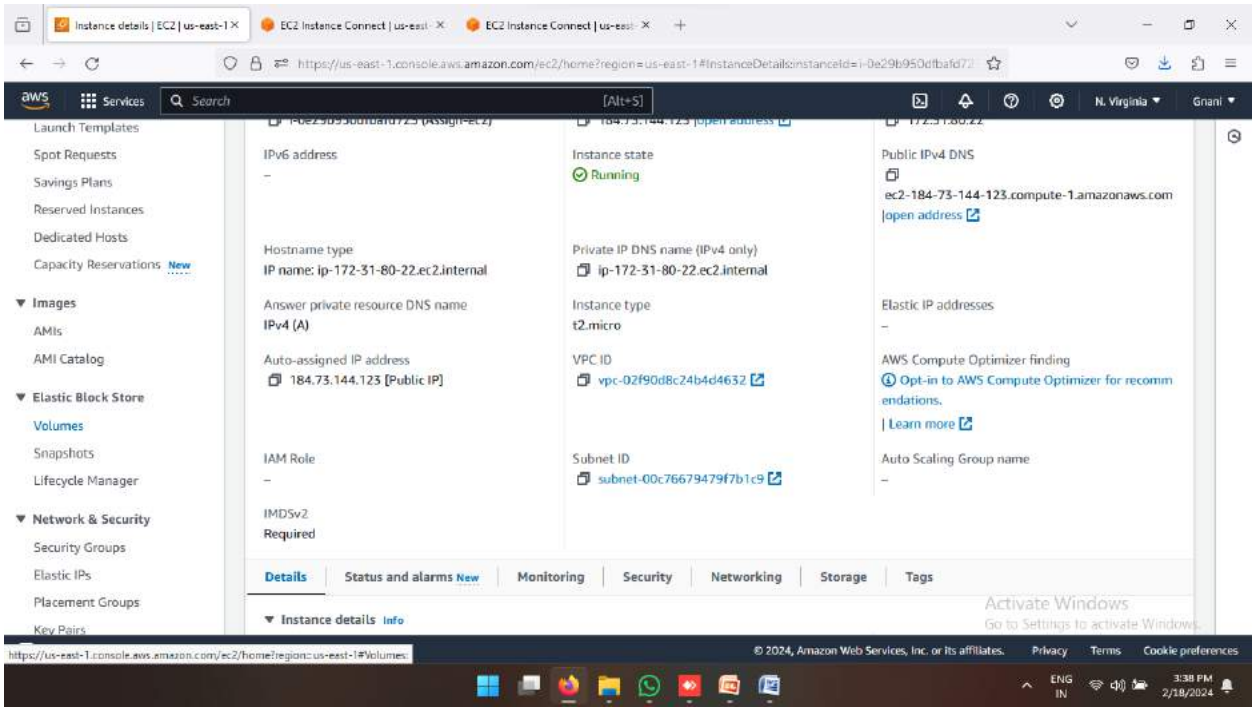


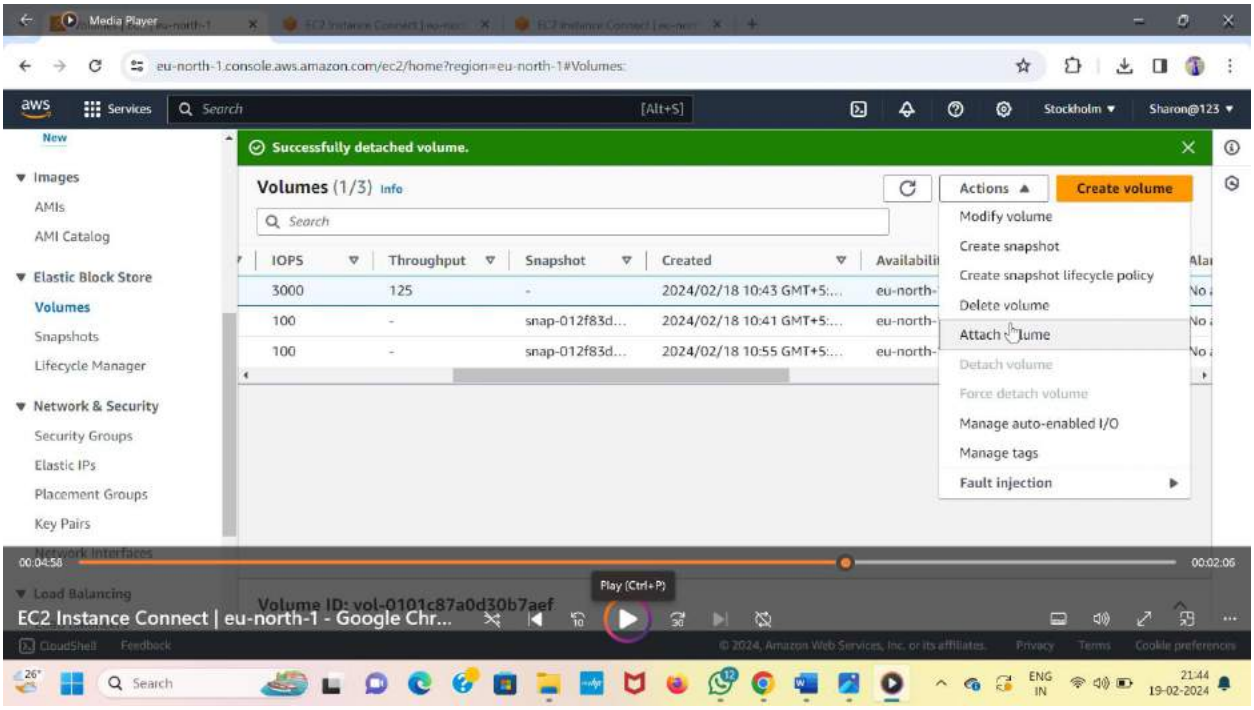


- After Creating Instance go to instance id and connect the instance



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




Media Player
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Volumes:
Services
Search
[Alt+S]
Stockholm
Sharon@123
Successfully detached volume.
Volumes (1/3) Info
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
3000
125
2024/02/18 10:43 GMT+5:...
100
snap-012f83d...
2024/02/18 10:41 GMT+5:...
100
snap-012f83d...
2024/02/18 10:55 GMT+5:...
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
00:04:58
00:02:06
Play (Ctrl+P)
Volume ID: vol-0101c87a0d30b7aef
EC2 Instance Connect | eu-north-1 - Google Chr...
CloudShell
Feedback
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Terms
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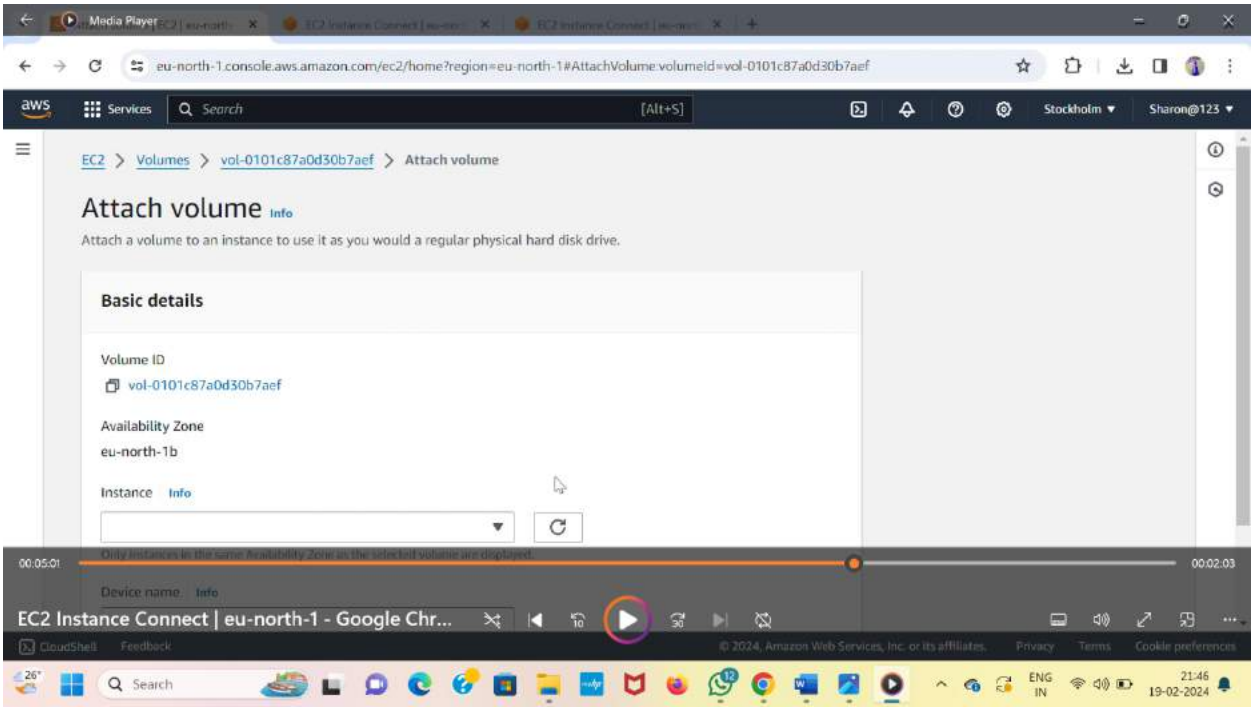
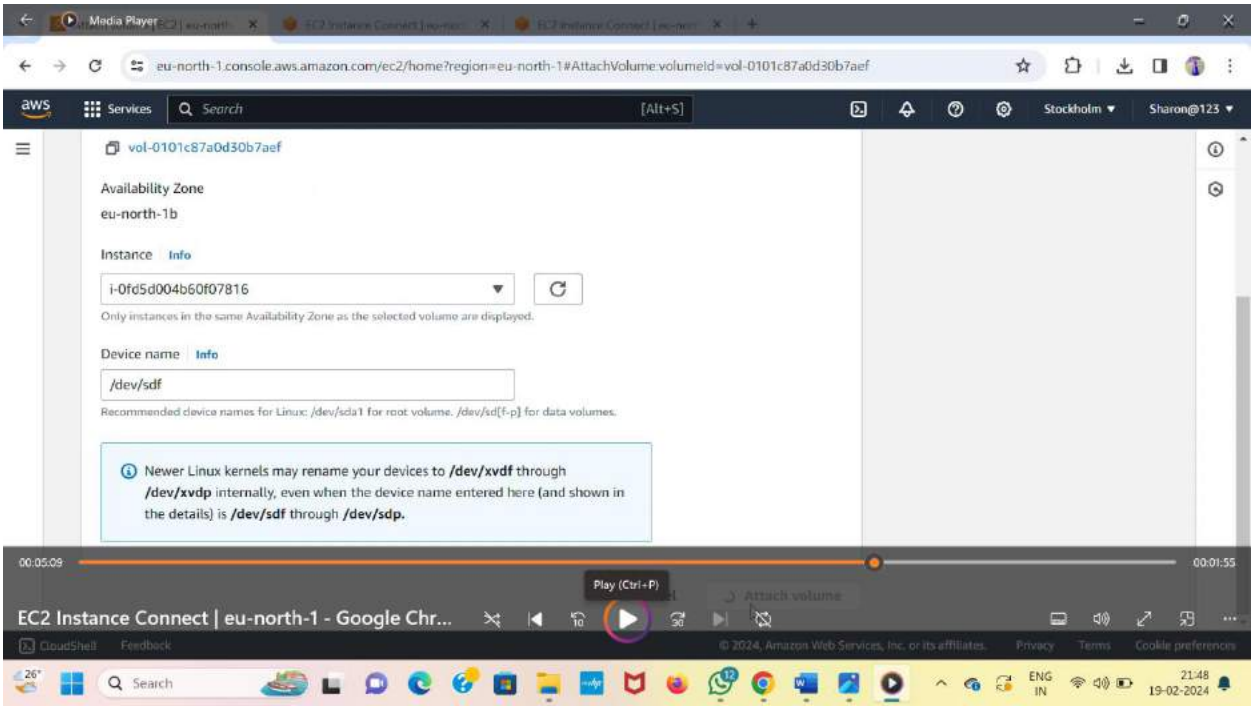
Search
ENG
IN
21:44
19-02-2024

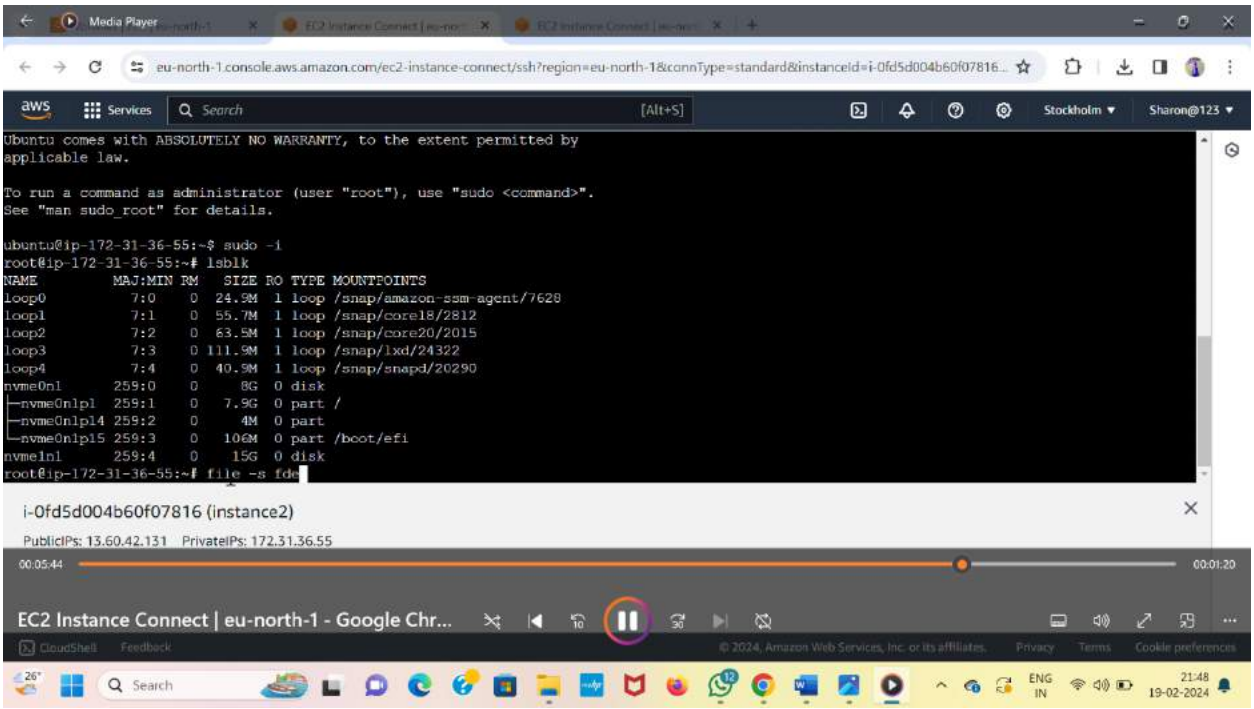

Media Player
eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#AttachVolume:volumeId=vol-0101c87a0d30b7aef
Services
Search
[Alt+S]
Stockholm
Sharon@123
EC2 > Volumes > vol-0101c87a0d30b7aef > Attach volume
Attach volume Info
Attach a volume to an instance to use it as you would a regular physical hard disk drive.
Basic details
Volume ID
vol-0101c87a0d30b7aef
Availability Zone
eu-north-1b
Instance Info
Only instances in the same Availability Zone as the selected volume are displayed.
Device name Info
00:05:01
00:02:03
EC2 Instance Connect | eu-north-1 - Google Chr...
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Search
ENG
IN
21:46
19-02-2024

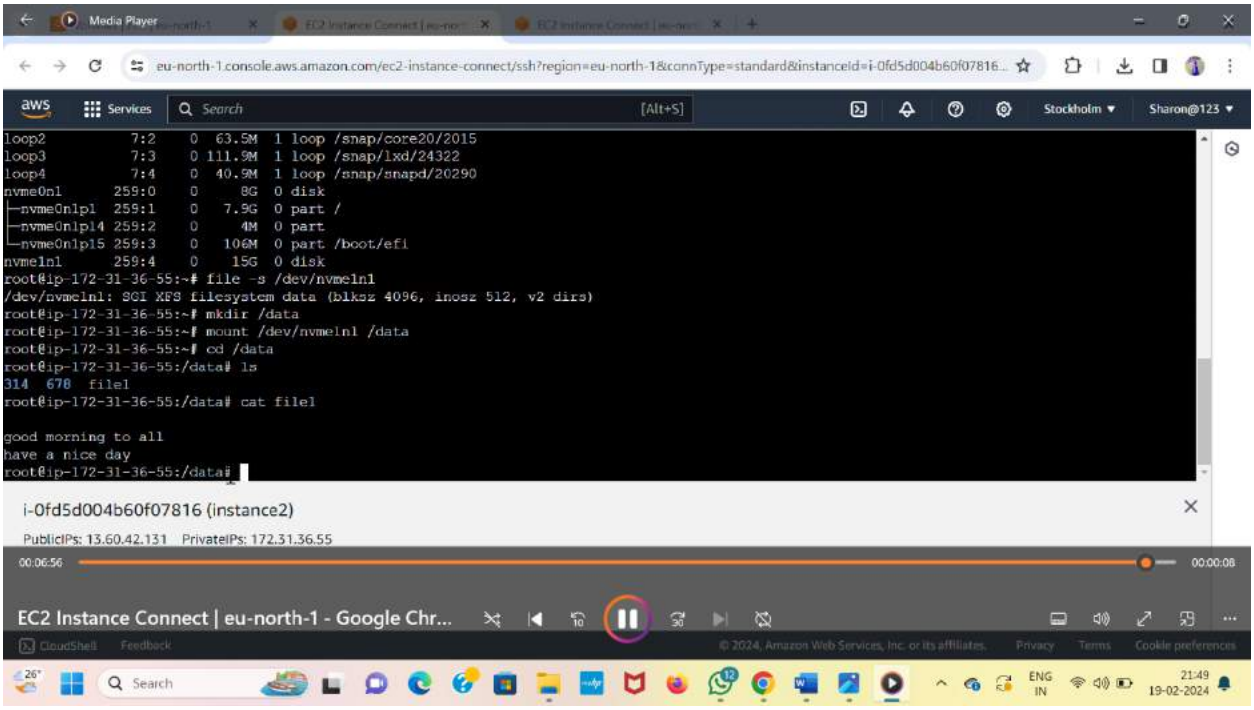


After Attach volume to check the file system is there or not

Then see the data in volume Command is

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




Media Player
eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=eu-north-1&connType=standard&instanceId=i-0fd5d004b60f07816...
aws
Services
Search
[Alt+S]
Stockholm
Sharon@123
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
nvme0n1 259:0 0 8G 0 disk
├─nvme0n1p1 259:1 0 7.9G 0 part /
├─nvme0n1p14 259:2 0 4M 0 part
└─nvme0n1p15 259:3 0 106M 0 part /boot/efi
nvme1n1 259:4 0 15G 0 disk
root@ip-172-31-36-55:~# file -s /dev/nvme1n1
/dev/nvme1n1: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
root@ip-172-31-36-55:~# mkdir /data
root@ip-172-31-36-55:~# mount /dev/nvme1n1 /data
root@ip-172-31-36-55:~# cd /data
root@ip-172-31-36-55:/data# ls
314 678 file1
root@ip-172-31-36-55:/data# cat file1
good morning to all
have a nice day
root@ip-172-31-36-55:/data#
i-0fd5d004b60f07816 (instance2)
PublicIPs: 13.60.42.131 PrivateIPs: 172.31.36.55
00:06:56
00:00:08
EC2 Instance Connect | eu-north-1 - Google Chr...
CloudShell
Feedback
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Terms
Cookie preferences
Search
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21:49
19-02-2024

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