



ASSIGNMENT - 01

COURSE : DEVOPS

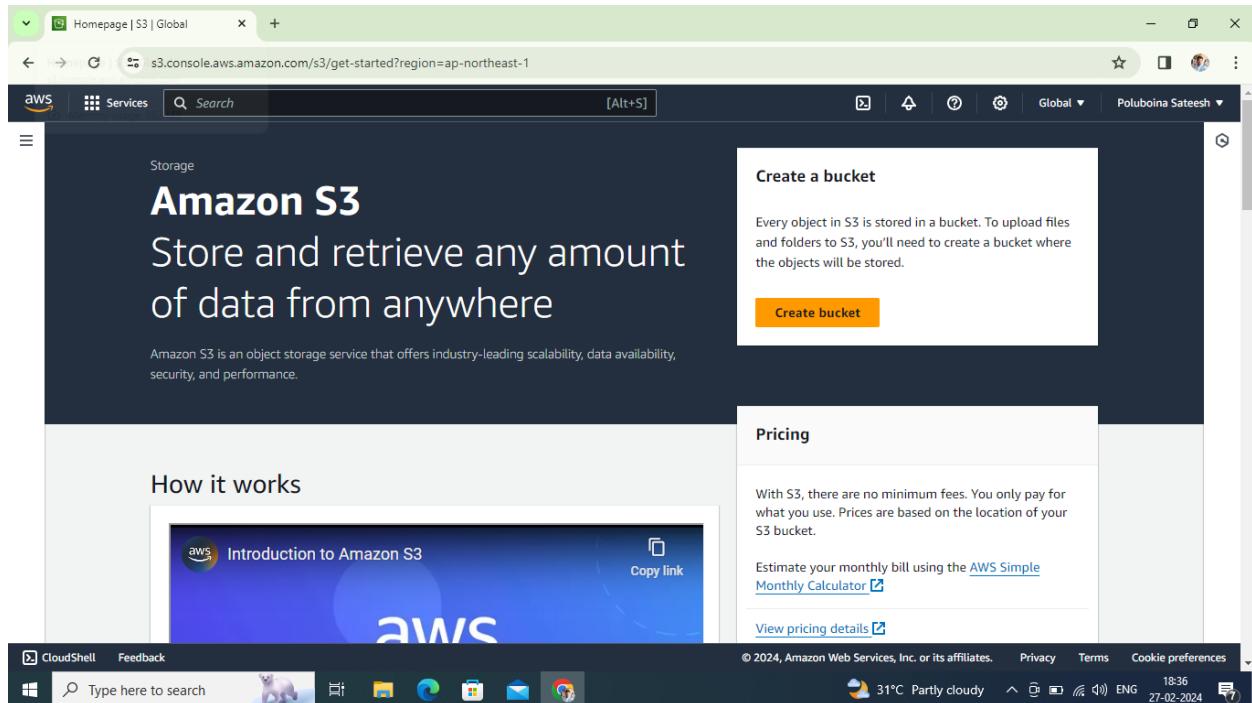
Trainer : Mr . MADHUKAR

NAME :p.sateesh

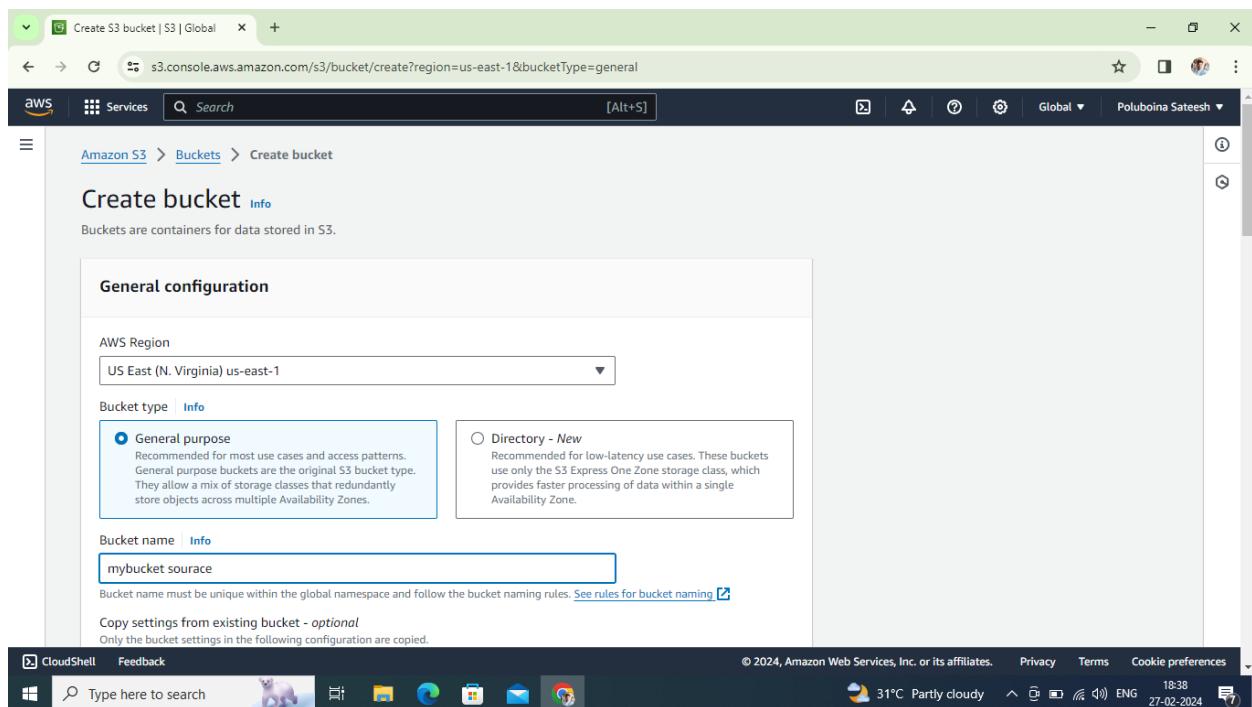
Mail id : sateeshpoluboina899@gmail.com

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

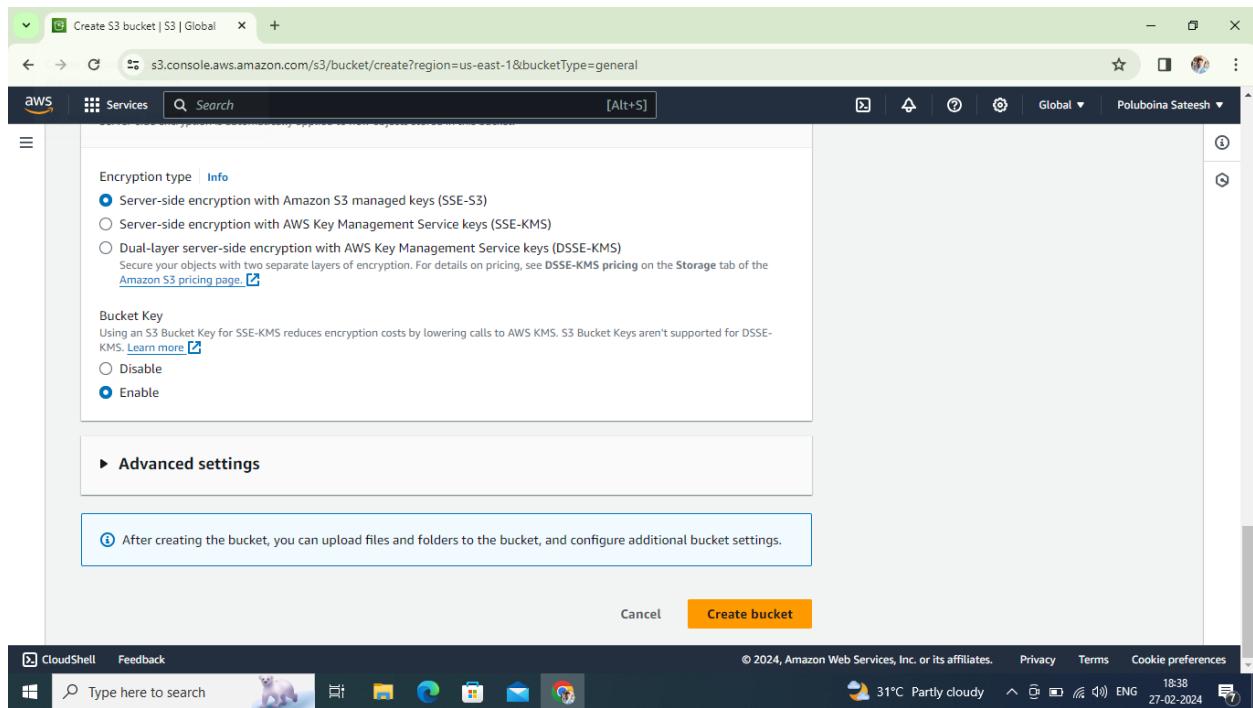
- Go to Amazon S3 , Click on Create Bucket



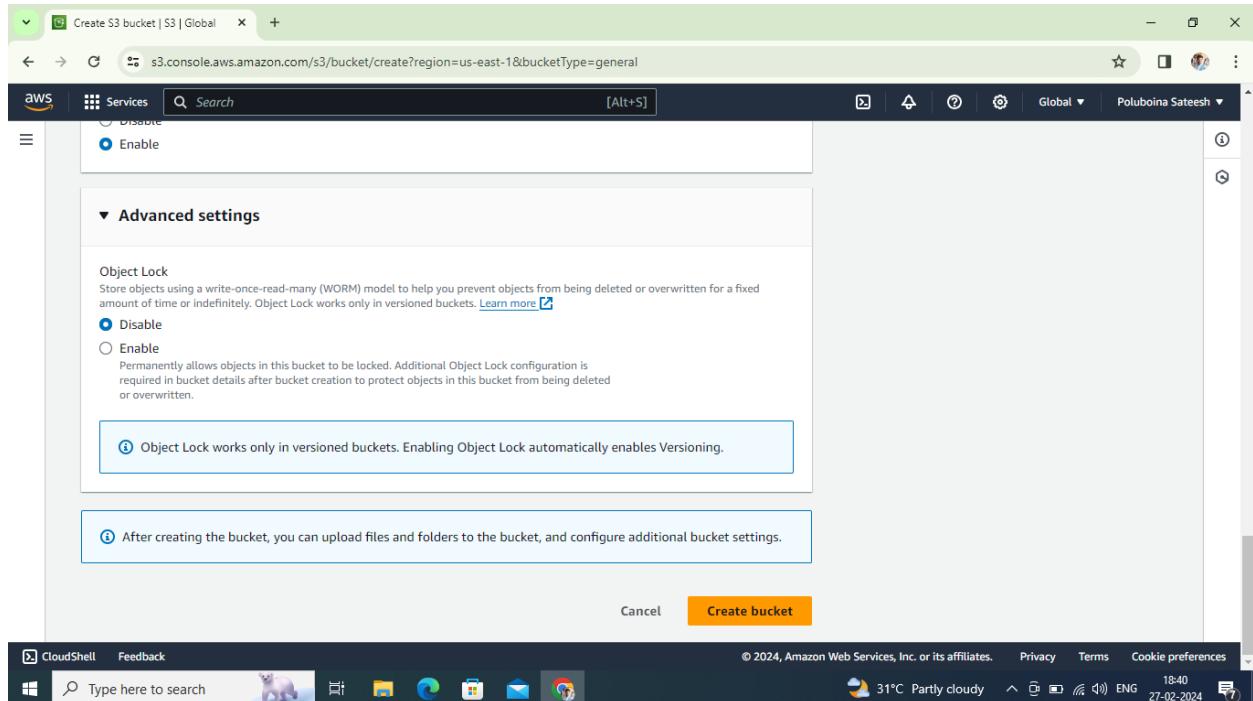
- Enter Bucket Name and Select Any one Region



- Enable Bucket Version

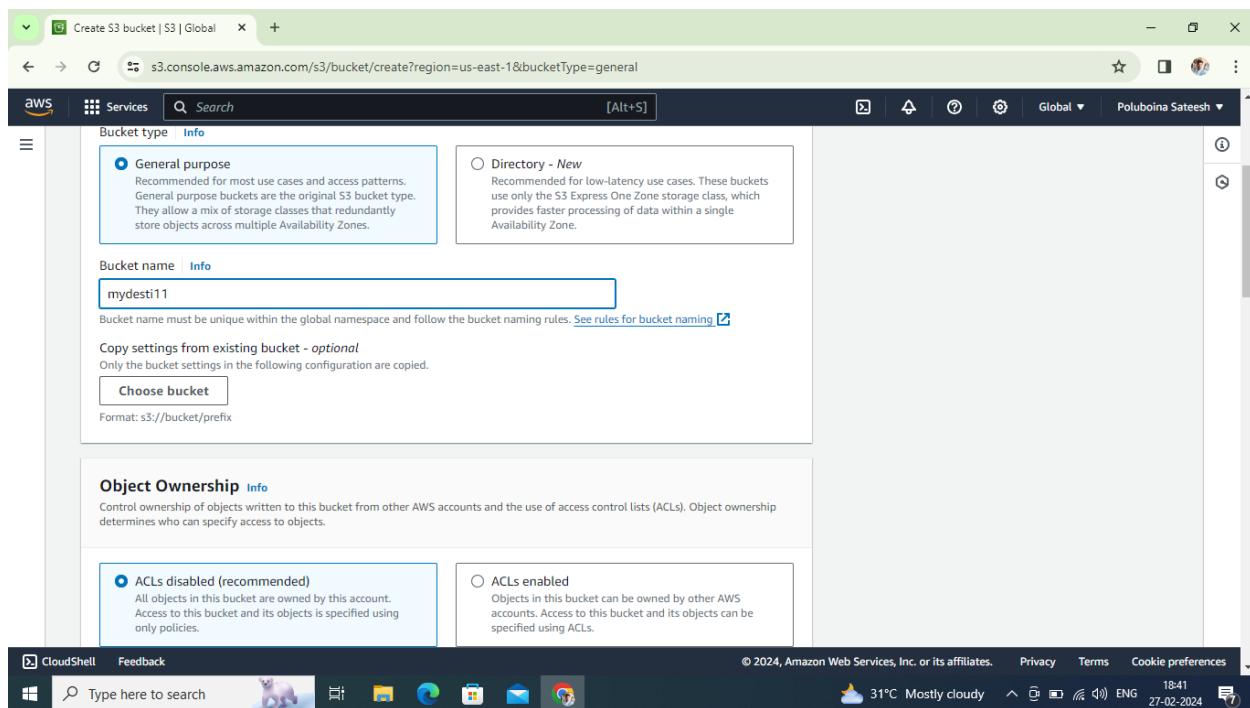


- After that Click on Create Bucket

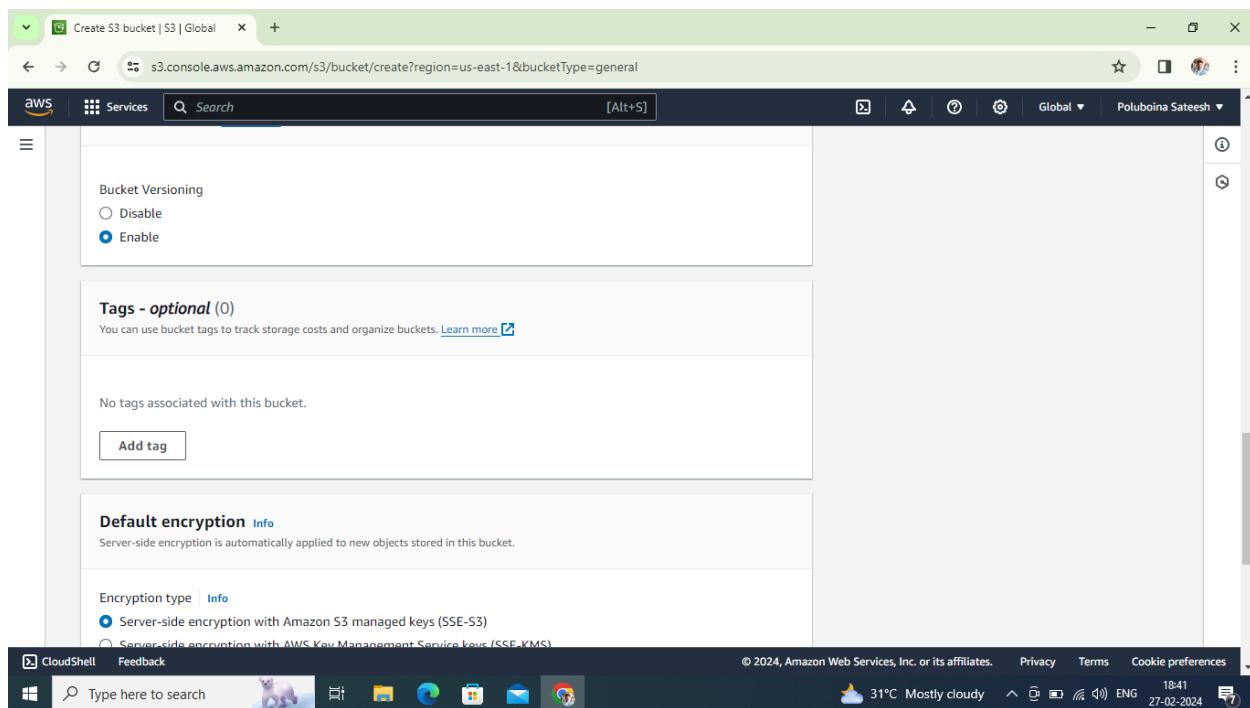


- One more bucket created in different region.

- 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

S3 buckets | S3 | Global

s3.console.aws.amazon.com/s3/buckets?region=us-east-1&bucketType=general

Services Search [Alt+S]

Successfully created bucket "mydesti11". To upload files and folders, or to configure additional bucket settings, choose View details.

View details

Account snapshot View Storage Lens dashboard

General purpose buckets Directory buckets

General purpose buckets (2) Info

Buckets are containers for data stored in S3.

Find buckets by name

Name	AWS Region	Access	Creation date
mydesti11	US East (N. Virginia) us-east-1	Bucket and objects not public	February 27, 2024, 18:42:03 (UTC+05:30)
mysource1	US East (N. Virginia) us-east-1	Bucket and objects not public	February 27, 2024, 18:40:35 (UTC+05:30)

CloudShell Feedback Type here to search 31°C Mostly cloudy 18:42 27-02-2024

- Click on Upload

mysource1 - S3 bucket | S3 | Global

s3.console.aws.amazon.com/s3/buckets/mysource1?region=us-east-1&bucketType=general&tab=objects

Services Search [Alt+S]

Amazon S3 > Buckets > mysource1

mysource1 Info

Objects (0) Info

Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Find objects by prefix Show versions

Name	Type	Last modified	Size	Storage class
------	------	---------------	------	---------------

No objects
You don't have any objects in this bucket.

Upload

CloudShell Feedback Type here to search 31°C Mostly cloudy 18:42 27-02-2024

- Uploading Files and Folders

The screenshot shows the AWS S3 console interface for uploading objects to a bucket named 'mysource1'. The main area displays a table titled 'Files and folders (1 Total, 287.7 KB)' containing one item: 'sateesh resu... application/... 287.7 KB'. Below the table are sections for 'Destination' (set to 's3://mysource1') and 'Destination details' (Bucket settings). There are also sections for 'Permissions' and 'Properties'. At the bottom right are 'Cancel' and 'Upload' buttons. The status bar at the bottom indicates 'CloudShell Feedback' and system information like '31°C Mostly cloudy'.

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

The screenshot shows the AWS S3 console after the upload has completed successfully. A green banner at the top states 'Upload succeeded' with a link to 'View details below.' Below this, a 'Summary' section provides a breakdown of the upload results: 'Destination s3://mysource1' (Succeeded: 1 file, 287.7 KB (100.00%)) and 'Failed: 0 files, 0 B (0%)'. The 'Files and folders' tab is selected, showing the same table as the previous screen with one item: 'sateesh resu... application/... 287.7 KB' and a status of 'Succeeded'. The status bar at the bottom indicates 'CloudShell Feedback' and system information like '31°C Mostly cloudy'.

- In Management Console click on create Replication Rule

The screenshot shows the AWS Management Console for an S3 bucket named 'mysorce1'. The 'Management' tab is selected. Under 'Lifecycle rules', there is a message stating 'No lifecycle rules'. A 'Create lifecycle rule' button is available. Under 'Replication rules (0)', there is a message stating 'There are no replication rules for this bucket.' A 'Create replication rule' button is also present.

- Enter Replication rule name

The screenshot shows the 'Create replication rule' configuration page. The 'Replication rule name' field is highlighted with the placeholder 'Enter rule ID'. Other fields include 'Status' (set to 'Enabled'), 'Priority' (set to 0), and a note about conflict resolution. The status bar at the bottom shows 'CloudShell', 'Feedback', 'Type here to search', and system information like '31°C Mostly cloudy' and '18:44 27-02-2024'.

- Click on Apply to all objects in he bucket

Source bucket

Source bucket name
mysource1

Source Region
US East (N. Virginia) us-east-1

Choose a rule scope
 Limit the scope of this rule using one or more filters
 Apply to all objects in the bucket

Destination

Destination
You can replicate objects across buckets in different AWS Regions (Cross-Region Replication) or you can replicate objects across buckets in the same AWS Region (Same-Region Replication). You can also specify a different bucket for each rule in the configuration. [Learn more](#) or see [Amazon S3 pricing](#)

Choose a bucket in this account
 Specify a bucket in another account

CloudShell Feedback Type here to search 31°C Mostly cloudy 18:44 27-02-2024

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

Choose a bucket

S3 Buckets

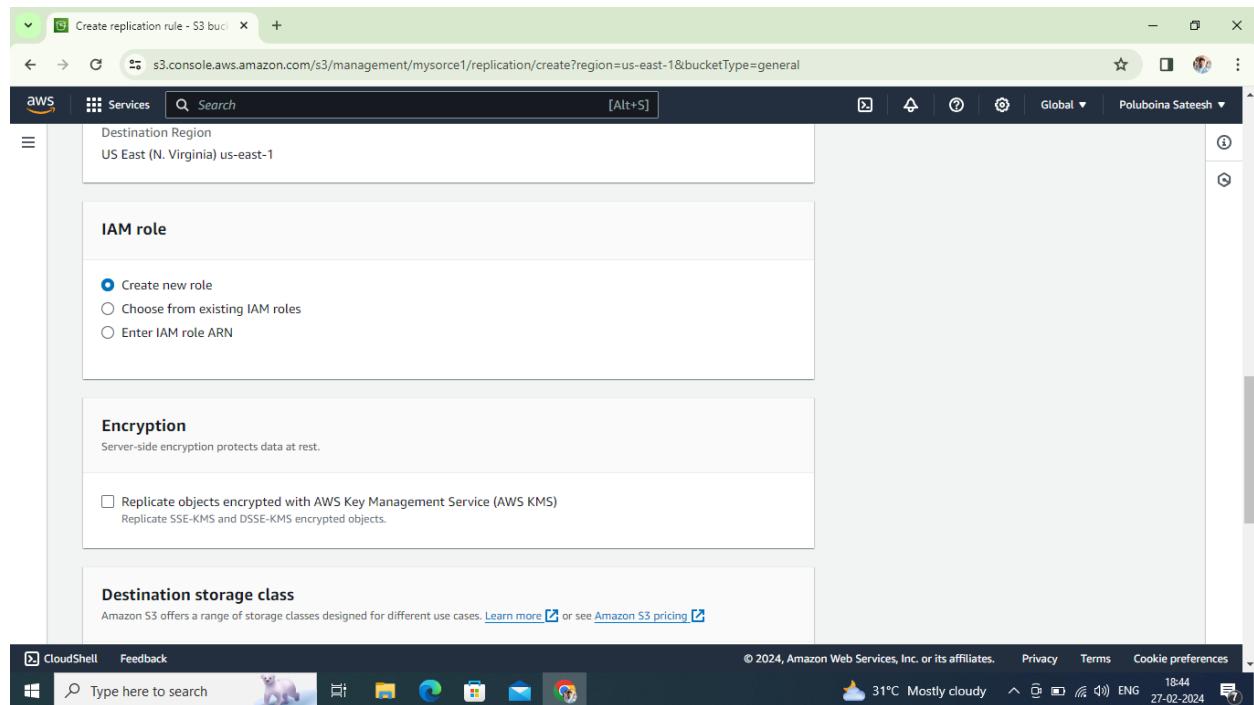
Buckets (2)	
<input type="text"/> Find buckets by name	
Name	AWS Region
<input checked="" type="radio"/> mydest11	US East (N. Virginia) us-east-1
<input type="radio"/> mysource1	US East (N. Virginia) us-east-1

Destination Region

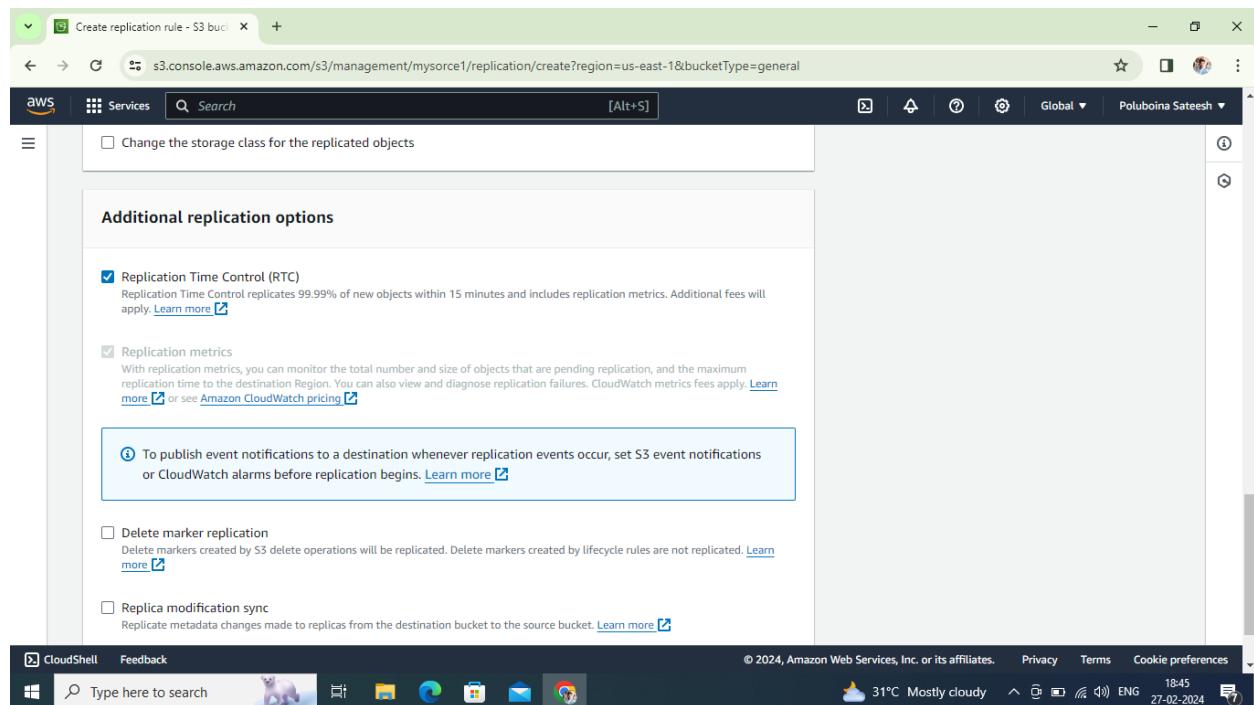
Cancel Choose path

CloudShell Feedback Type here to search 31°C Mostly cloudy 18:44 27-02-2024

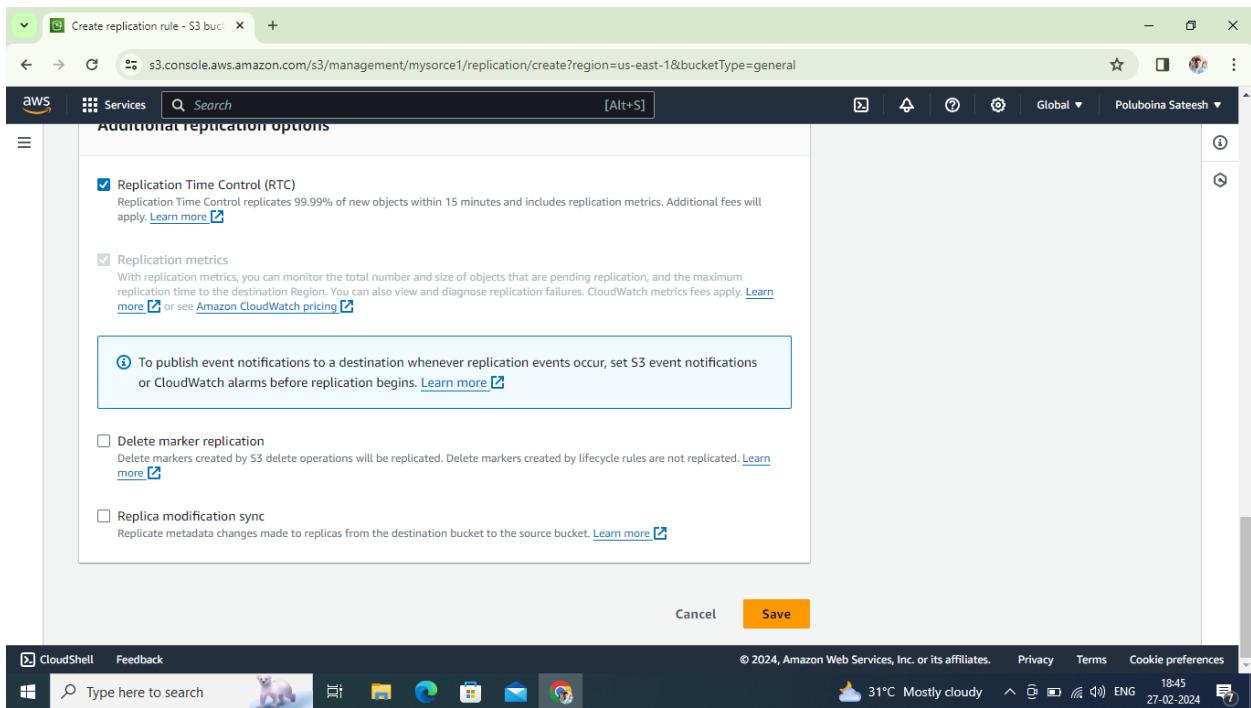
- Select another region Bucket (or) Where ever you want to see the data that bucket select and click on choose path



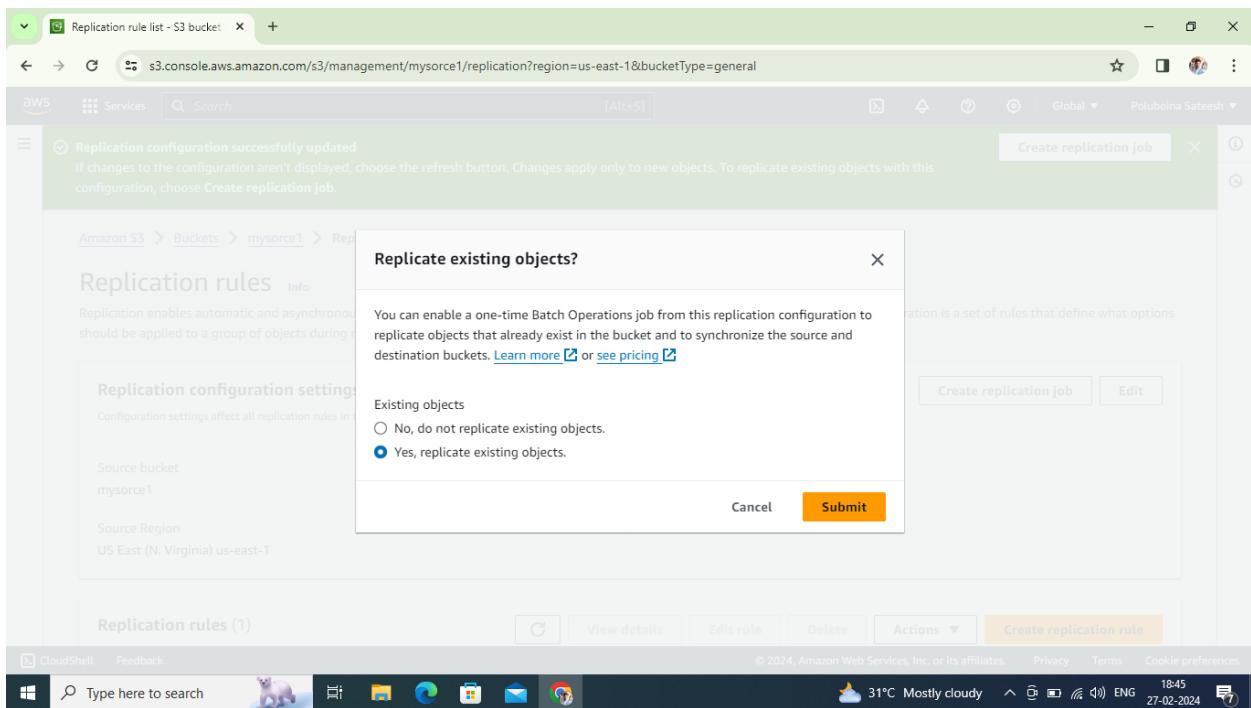
- Now choose from existing IAM roles
- Select Drop down Create a new role



- 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

S3 Buckets

Buckets (2)

Name	AWS Region
mydesti11	US East (N. Virginia) us-east-1
mysource1	US East (N. Virginia) us-east-1

Choose path

Jobs (4)

Job ID	Status	Description	Operation	Date created	Total objects	% Complete	Total failed (rate)	Priority
e17cc69c-19fc-42b8-86f9-9445d80b25ce	New	2024-02-27 - Replicate	Replicate	February 27, 2024, 18:46:15 (UTC+05:30)	Not yet available	0%	0 (0%)	10
50464f7e-5ff5-43cb-be3b-111111111111	Completed	2024-02-20 - Replicate	Replicate	February 20, 2024, 23:06:42	2	100%	0 (0%)	10

The screenshot shows the AWS S3 management console with the URL <https://s3.console.aws.amazon.com/s3/management/assignment-120batch-one/replication/create-job?region=us-east-1>. The page is titled 'Replicate objects through S3 Batch Operations'. It includes fields for 'Completion report destination' (set to 's3://assignment-120batch-two'), 'Permissions' (choose from existing IAM roles), and an 'IAM role' dropdown ('Create new role'). Buttons for 'Cancel' and 'Save' are at the bottom.

- 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.

The screenshot shows the AWS S3 management console with the URL <https://s3.console.aws.amazon.com/s3/jobs?region=us-east-1>. A green banner at the top says 'Successfully created job ID 8ae4f34a-052d-4ba7-868c-edde3db8247a'. Below it, the 'Batch Operations' section displays a table of jobs. One job is listed:

Job ID	Status	Description	Operation	Date created	Total objects	% Complete	Total failed (rate)	Priority
8ae4f34a-052d-4ba7-868c-edde3db8247a	Preparing	2024-02-18 - Replicate	Replicate	February 18, 2024, 14:39:19 (UTC+05:30)	0	0%	0 (0%)	10

A message at the bottom right says 'Activate Windows Go to Settings to activate Windows.'

The screenshot shows the AWS S3 Batch Operations console. At the top, a green banner indicates "Successfully created job ID 8ae4f34a-052d-4ba7-868c-edde3db8247a". Below the banner, the "Batch Operations" page is displayed with the heading "Jobs (1)". A table lists the job details:

Job ID	Status	Description	Operation	Date created	Total objects	% Complete	Total failed (rate)	Priority
8ae4f34a-052d-4ba7-868c-edde3db8247a	Active	2024-02-18 - Replicate	Replicate	February 18, 2024, 14:39:19 (UTC+05:30)	13	0%	0 (0%)	10

At the bottom of the page, there is a message: "Activate Windows Go to Settings to activate Windows."

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

The screenshot shows the AWS S3 Buckets console. The "General purpose buckets" tab is selected, showing two buckets:

Name	AWS Region	Access	Creation date
assignment-120batch-one	US East (N. Virginia) us-east-1	Bucket and objects not public	February 18, 2024, 14:12:46 (UTC+05:30)
assignment-120batch-two	US East (Ohio) us-east-2	Bucket and objects not public	February 18, 2024, 14:17:24 (UTC+05:30)

At the bottom of the page, there is a message: "Activate Windows Go to Settings to activate Windows."

- Now See the data in Destination Bucket.

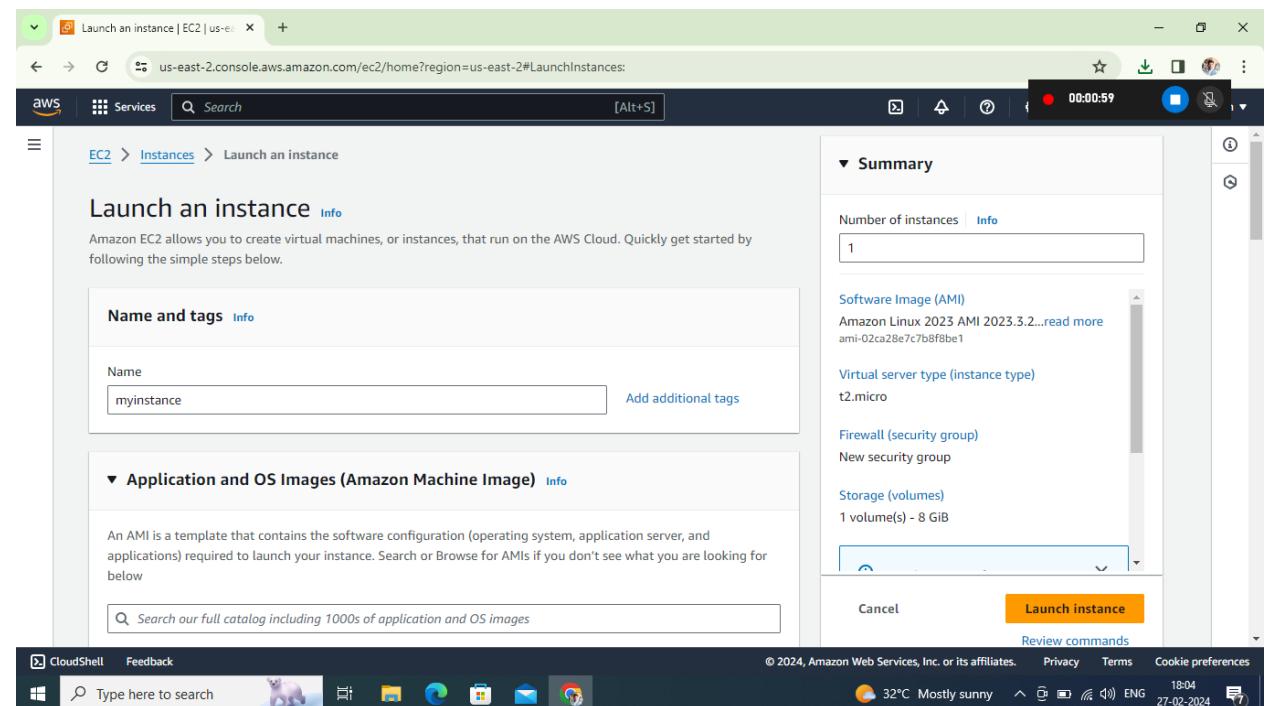
The screenshot shows the AWS S3 console interface. The left sidebar has sections for Buckets, Access Grants, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, Block Public Access settings, Storage Lens (Dashboards, Storage Lens groups, AWS Organizations settings), CloudShell, and Feedback. The main area is titled 'Objects (2) Info' and lists the following:

Name	Type	Last modified	Size	Storage class
job-e17cc69c-19fc-42b8-86f9-9445d80b25ce/	Folder	-	-	-
sateesh resume.pdf	pdf	February 27, 2024, 18:43:05 (UTC+05:30)	287.7 KB	Standard

The bottom of the screen shows the Windows taskbar with icons for File Explorer, Edge, File, Mail, and Google Chrome. The system tray shows the date as 27-02-2024, time as 18:48, and weather as 31°C Mostly cloudy.

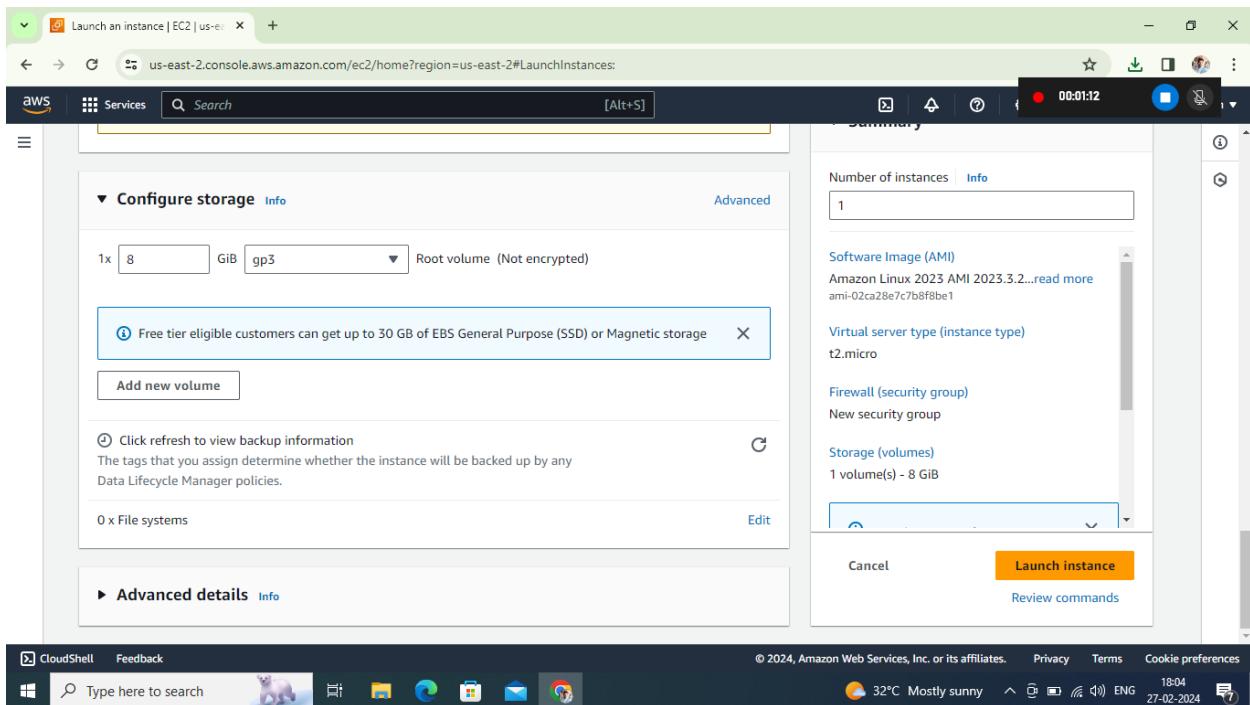
***** * END *****

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

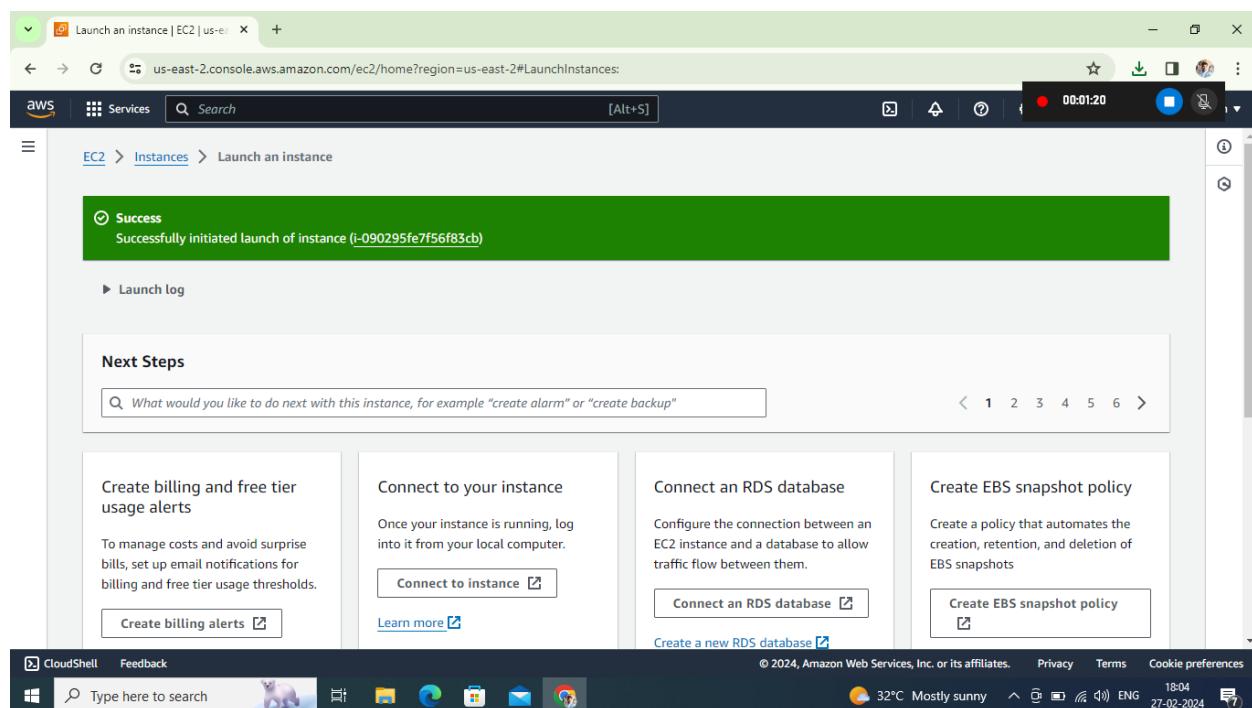


Go to AWS Console Home and search EC2 and Click on EC2

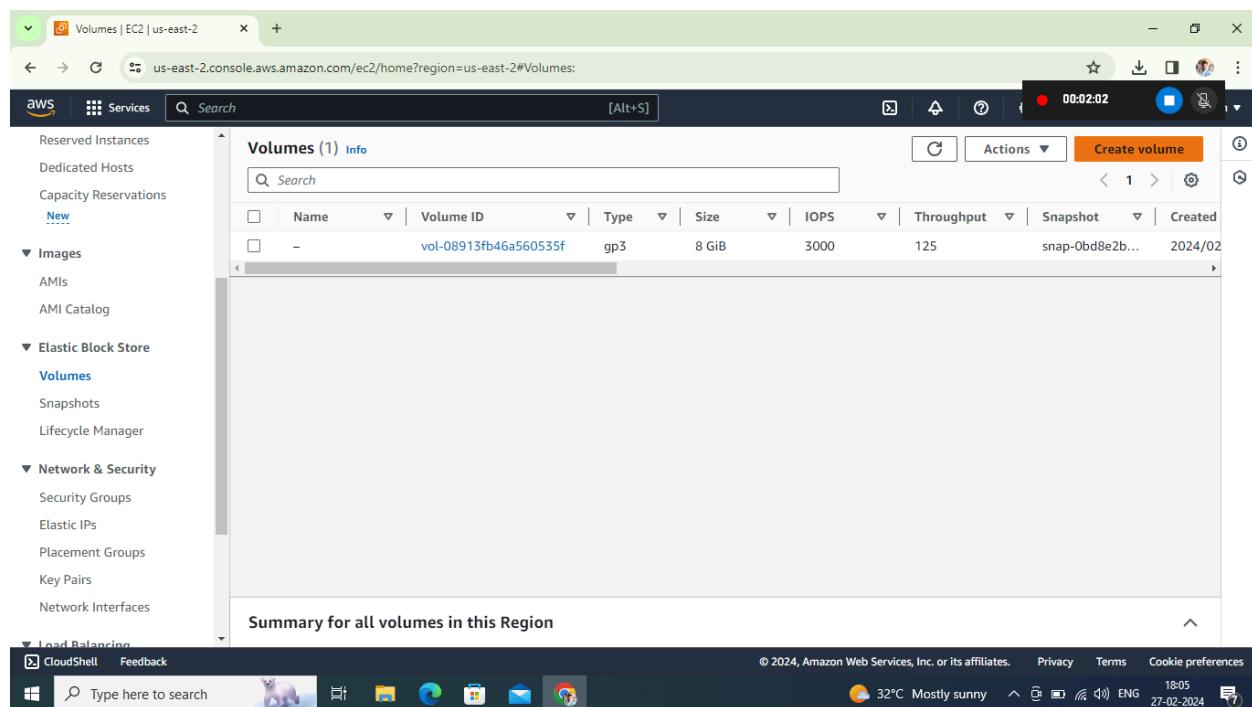
- Now we are in EC2 Dashboard
- Click on Instances

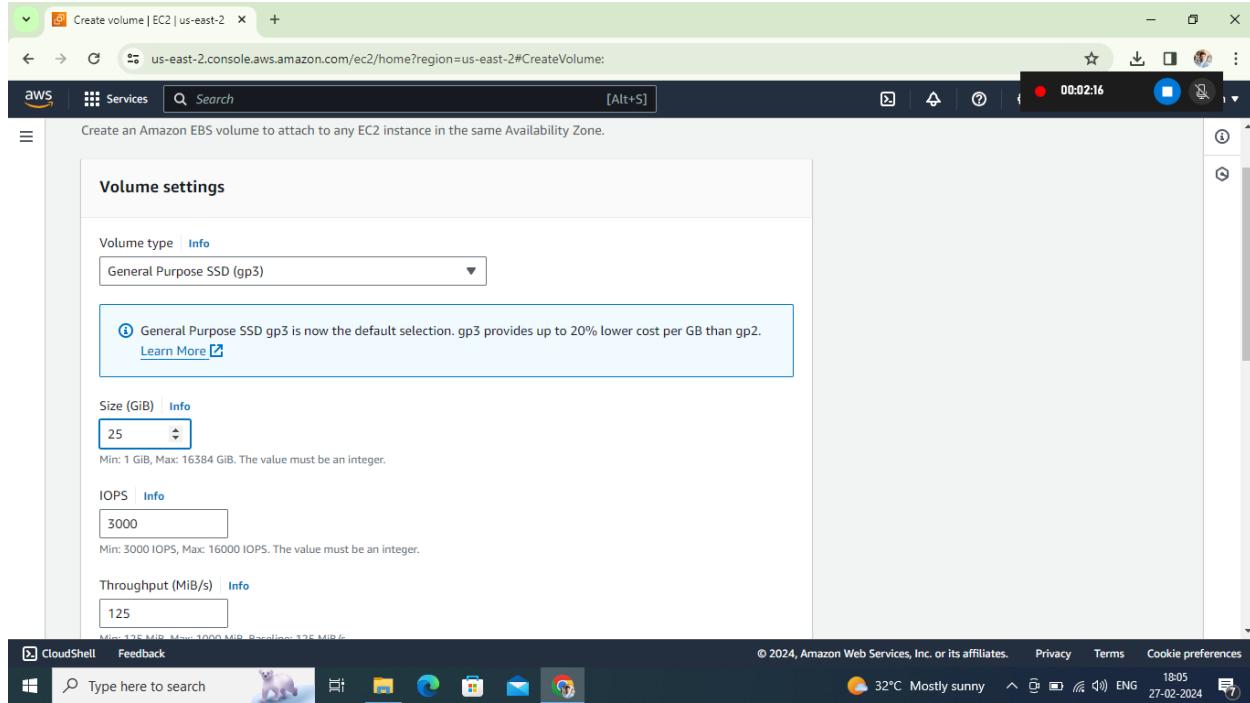


- Now Create One Server in any region
- Click on Launch Instances

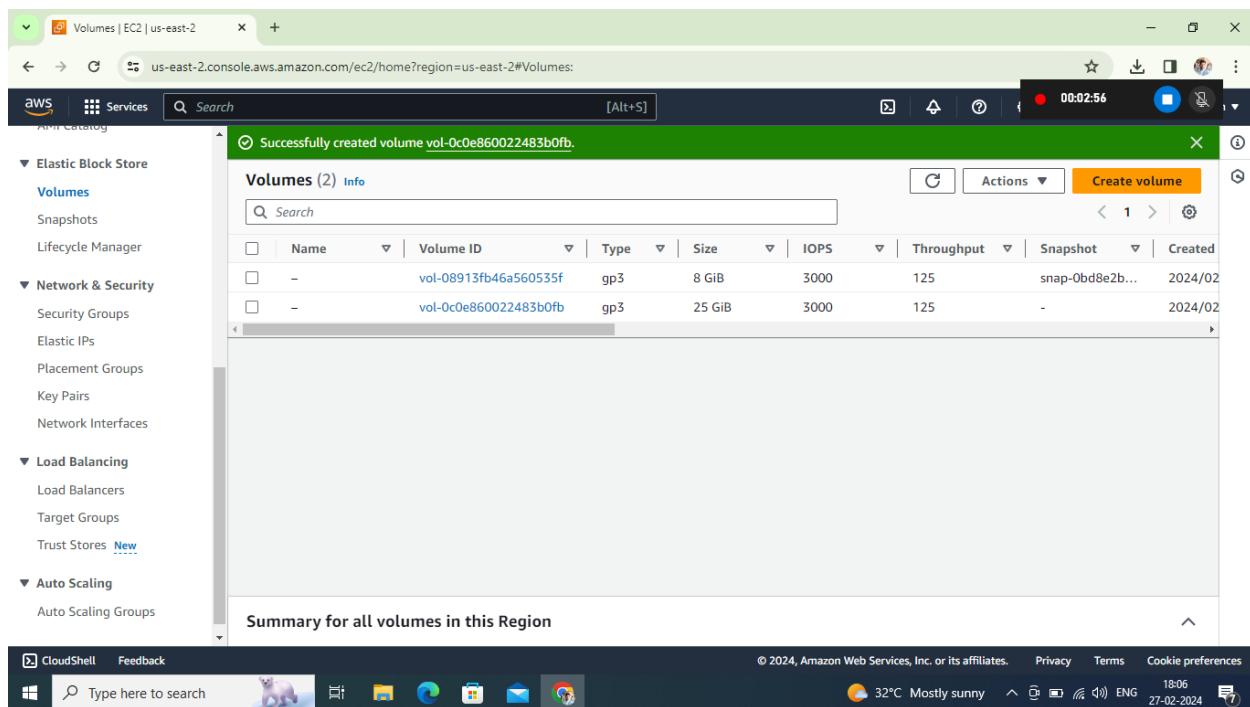


- Enter Name and select operating system

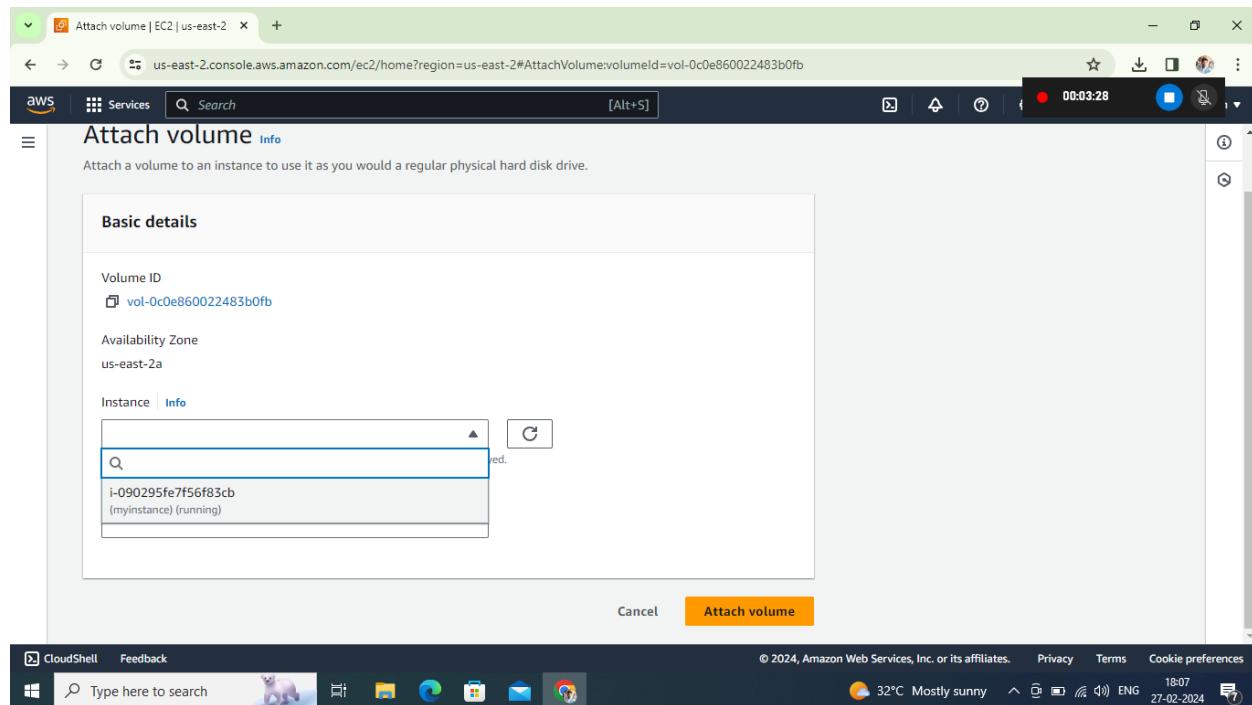




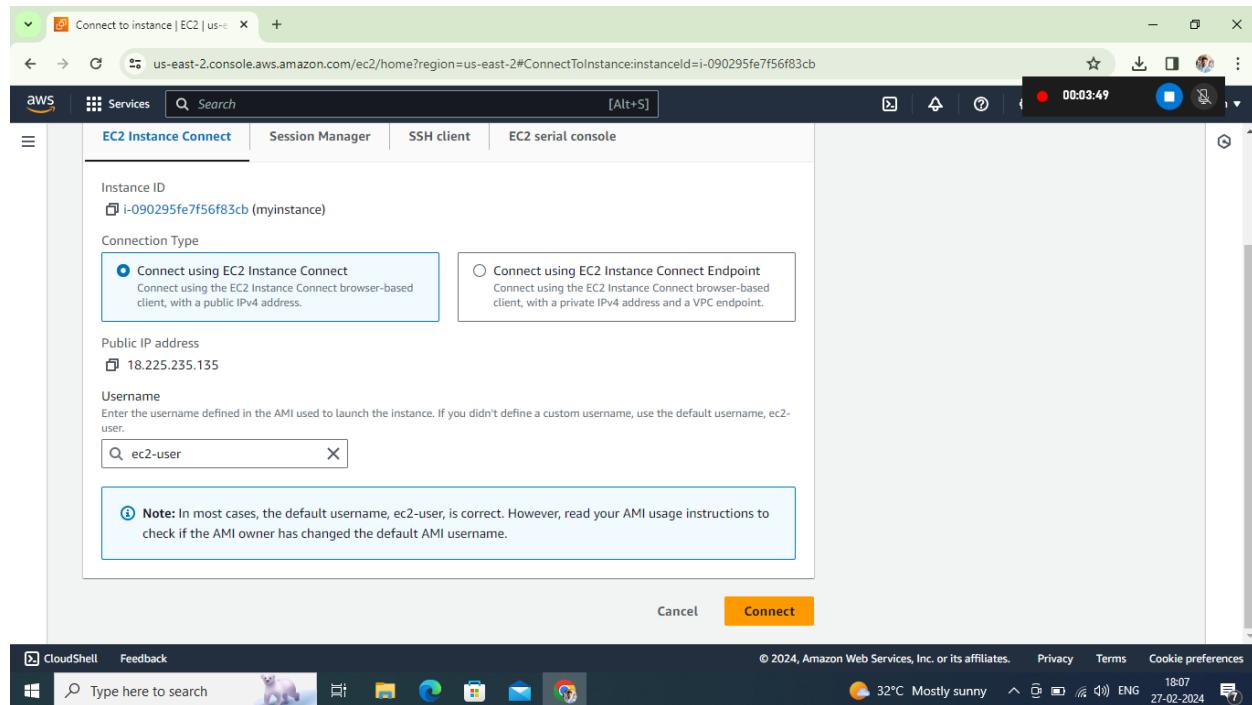
- Now Click a Create new key pair

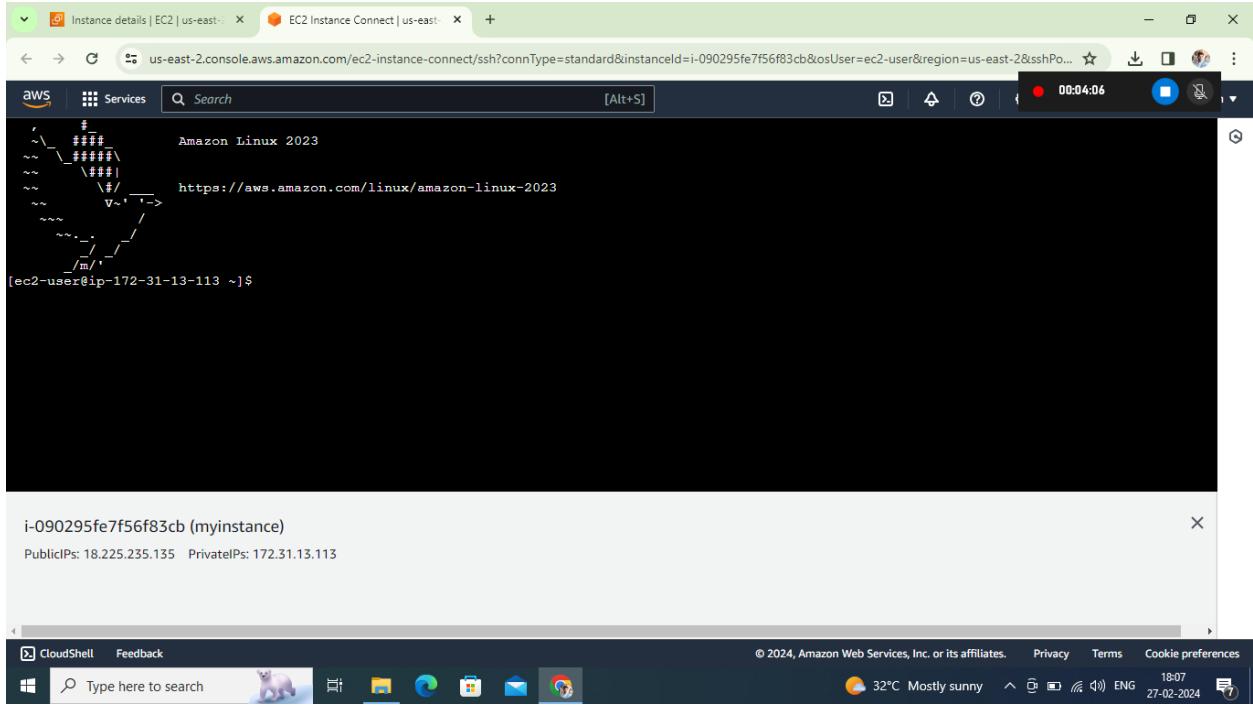


- Enter a key name and click on create key pair

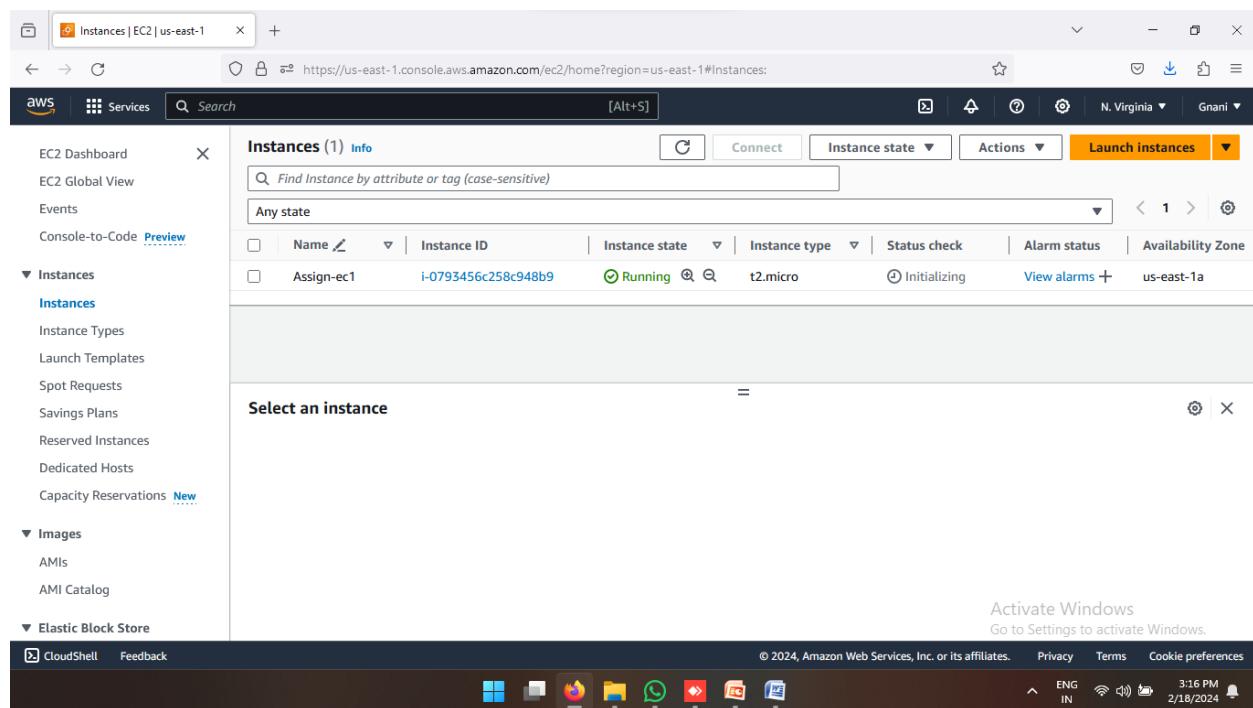


- Now Click on launch instance





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



Instance details | EC2 | us-east-1 X +

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instanceDetails:instanceId=i-0793456c258c948b9

AWS 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 CloudShell Feedback

Instance summary for i-0793456c258c948b9 (Assign-ec1) Info Connect Instance state Actions

Updated less than a minute ago

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0793456c258c948b9 (Assign-ec1)	3.93.82.50 [open address]	172.31.82.214
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-3-93-82-50.compute-1.amazonaws.com [open address]
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-82-214.ec2.internal	ip-172-31-82-214.ec2.internal	-
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
IPv4 (A)	t2.micro	Opt-in to AWS Compute Optimizer for recommendations.
Auto-assigned IP address	VPC ID	Learn more
3.93.82.50 [Public IP]	vpc-02f90d8c24b4d4632	
IAM Role	Subnet ID	Auto Scaling Group name
-	subnet-00c76679479f7b1c9	-

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Connect to instance | EC2 | us-east-1 X +

https://us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-0793456c258c948b9

AWS 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: 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

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- Now Connected server

```

Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023

[ec2-user@ip-172-31-13-113 ~]$ sudo -i
[root@ip-172-31-13-113 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M   0    4.0M  0% /dev
tmpfs          475M   0   475M  0% /dev/shm
tmpfs          190M  2.9M  188M  2% /run
/dev/xvda1      8.0G  1.6G  6.5G 19% /
tmpfs          475M   0   475M  0% /tmp
/dev/xvda12     10M  1.3M  8.7M 13% /boot/efi
tmpfs          95M   0   95M  0% /run/user/1000
[root@ip-172-31-13-113 ~]#

```

i-090295fe7f56f83cb (myinstance)
PublicIPs: 18.225.235.135 PrivateIPs: 172.31.13.113

- df -h this command check user size

```

/mkfs -t xfs /dev/xvdf
meta-data=/dev/xvdf      isize=512   agcount=4, agsize=1638400 blks
meta-data=/dev/xvdf      =         sectsz=512   attr=2, projid32bit=1
meta-data=/dev/xvdf      =         crc=1       finobt=1, sparse=1, rmapbt=0
meta-data=/dev/xvdf      =         reflink=1  bigtime=1 inobtcount=1
data=/dev/xvdf           bsize=4096  blocks=6553600, imaxpct=25
data=/dev/xvdf           =         sunit=0   swidth=0 blks
naming=version 2          bsize=4096  ascii-ci=0, ftype=1
log=/internal log          bsize=4096  blocks=16384, version=2
log=/internal log          sectsz=512   sunit=0 blks, lazy-count=1
realtime=none             extsz=4096  blocks=0, rtextents=0
mkdir -p satish/sai
ls
satish
cd satish
mkdir f1 shiva3
vi vcube

```

i-090295fe7f56f83cb (myinstance)
PublicIPs: 18.225.235.135 PrivateIPs: 172.31.13.113

- Now go to ebs then volumes

Volume details | EC2 | us-east-2 EC2 Instance Connect | us-east-2 +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#VolumeDetails:volumId=vol-0c0e860022483b0fb

aws Services Search [Alt+S] 00:15:30

EC2 > Volumes > vol-0c0e860022483b0fb

vol-0c0e860022483b0fb

Volume ID	Size	Type	Actions
vol-0c0e860022483b0fb	25 GiB	gp3	Create snapshot
AWS Compute Optimizer finding	Volume state	IOPS	Attach volume
Opt-in to AWS Compute Optimizer for recommendations. Learn more	In-use	3000	Detach volume
Encryption	KMS key ID	KMS key alias	Force detach volume
Not encrypted	-	-	Manage auto-enabled I/O
Fast snapshot restored	Snapshot	Availability Zone	
No	-	us-east-2a	
Multi-Attach enabled	Attached resources	Outposts ARN	
No	i-090295fe7f56f83cb (myinstance): /dev/sdf (attaching)	-	

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- Click on Create Volume

Volume details | EC2 | us-east-2 EC2 Instance Connect | us-east-2 +

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#VolumeDetails:volumId=vol-0c0e860022483b0fb

aws Services Search [Alt+S] 00:15:55

EC2 > Volumes > vol-0c0e860022483b0fb

vol-0c0e860022483b0fb

Volume ID	Size	Type	Actions
vol-0c0e860022483b0fb	25 GiB	gp3	Create snapshot
AWS Compute Optimizer finding	Volume state	IOPS	Attach volume
Opt-in to AWS Compute Optimizer for recommendations. Learn more	In-use	3000	Detach volume
Encryption	KMS key ID	KMS key alias	Force detach volume
Not encrypted	-	-	Manage auto-enabled I/O
Fast snapshot restored	Snapshot	Availability Zone	
No	-	us-east-2a	
Multi-Attach enabled	Attached resources	Outposts ARN	
No	i-090295fe7f56f83cb (myinstance): /dev/sdf (attached)	-	

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

Volume type: General Purpose SSD (gp3)

Size (GiB): 5

IOPS: 3000

Throughput (MiB/s): 125

Availability Zone: us-east-1a

Activate Windows
Go to Settings to activate Windows.

Encrypt this volume

Tags - optional

No tags associated with the resource.

Add tag

Snapshot summary

Click refresh to view backup information

Create volume

Activate Windows
Go to Settings to activate Windows.

- 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.

The screenshot shows the AWS EC2 Volumes page in the us-east-1 region. A success message at the top indicates "Successfully created volume vol-0132d1ab4bb25c030." The main table displays two volumes:

	Throughput	Snapshot	Created	Availability Zone	Volume state	Alarm status
-	snap-091ad9e...	2024/02/18 15:15 GMT+5...	us-east-1a	In-use	No alarms	
125	-	2024/02/18 15:22 GMT+5...	us-east-1a	Available	No alarms	

Below the table, a summary section shows "2 volumes" and "1 snapshots". The bottom right corner includes copyright information and a date: "© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 3:22 PM 2/18/2024".

The screenshot shows the AWS EC2 Volume details page for the volume with ID vol-0132d1ab4bb25c030. The volume is currently in the "In-use" state. The Actions menu is open, showing various options:

- 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

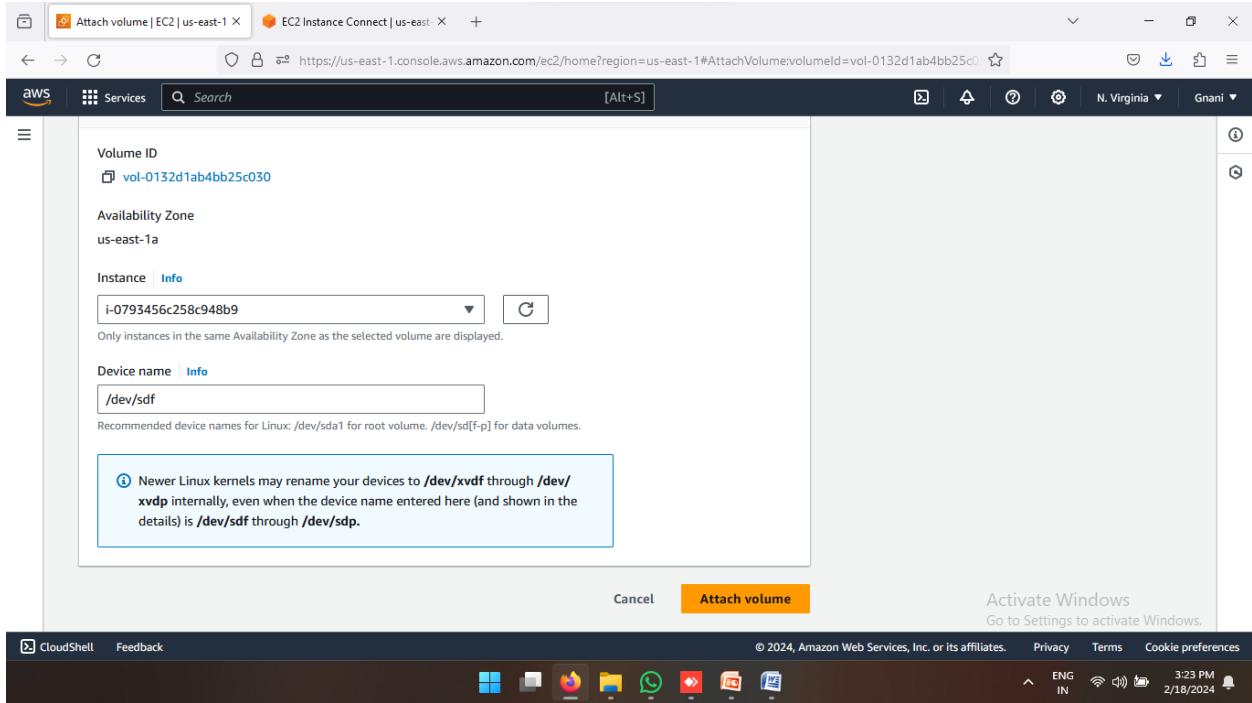
Below the Actions menu, detailed information about the volume is provided:

Volume ID	Size	Type
vol-0132d1ab4bb25c030	5 GiB	gp3

Other details include:

- AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations.
- Encryption: Not encrypted.
- Volume state: Available.
- IOPS: 3000.
- KMS key ID: KMS key alias.
- Throughput: 125.

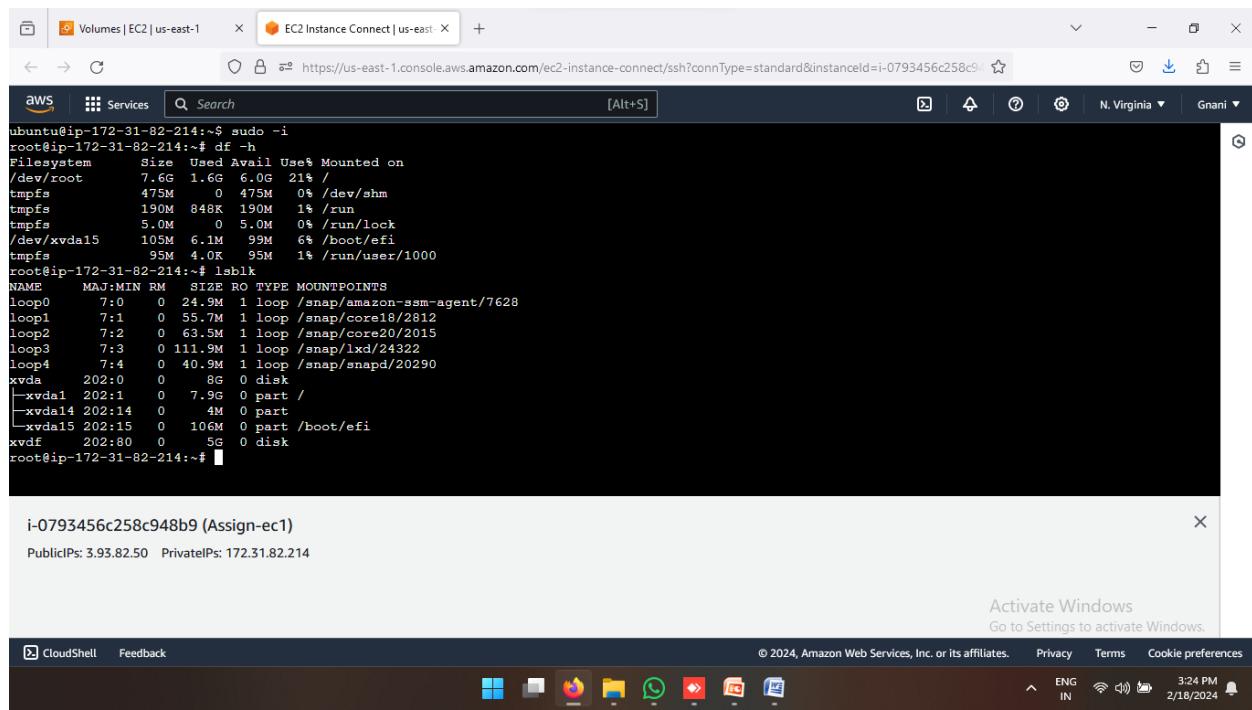
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The screenshot shows the 'Volumes' page in the AWS Management Console. The left sidebar shows navigation links like EC2 Dashboard, Instances, Images, and Elastic Block Store. The main area displays a table of volumes. One row is selected, showing details for 'vol-0132d1ab4bb25c030'. The 'Actions' menu for this volume includes options like 'Create volume', 'Modify volume', 'Create snapshot', 'Delete volume', 'Attach volume', 'Detach volume', 'Force detach volume', 'Manage auto-enabled I/O', 'Manage tags', and 'Fault injection'. The volume status is listed as 'Okay'. At the bottom are 'CloudShell' and 'Feedback' buttons.

- Now Go to EC2 Connected server

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



The screenshot shows a terminal window within the AWS CloudShell interface. The terminal displays the output of several commands:

```
ubuntu@ip-172-31-82-214:~$ sudo -i
root@ip-172-31-82-214:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/root       7.6G  1.6G  6.0G  21% /
tmpfs          475M     0  475M   0% /dev/shm
tmpfs          190M  848K  190M   1% /run
tmpfs          5.0M     0  5.0M   0% /run/lock
/dev/xvda15    105M  6.1M  99M   6% /boot/efi
tmpfs          95M  4.0K  95M   1% /run/user/1000
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@ip-172-31-82-214:~#
```

Below the terminal, the AWS CloudShell interface shows the instance details:

i-0793456c258c948b9 (Assign-ec1)
PublicIPs: 3.93.82.50 PrivateIPs: 172.31.82.214

At the bottom, there's a navigation bar with links like CloudShell, Feedback, and a footer with copyright information and language settings.

- 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

A screenshot of an EC2 Instance Connect session. The terminal window shows root commands being run on an EC2 instance. The commands include:

```
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, rmapbkt=0
=                      reflink=1   bigtime=0 inobtcount=25
data       =             bsize=4096  swidth=0 blks
naming    =version 2    bsize=4096  ascii-ci=0, ftype=1
log        =internal log bsize=4096  blocks=2560, version=2
realtime  =none         sectsz=512  sunit=0 blks, lazy-count=1
extsz=4096

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#
```

The terminal window has a title bar "Volumes | EC2 | us-east-1" and "EC2 Instance Connect | us-east-1". Below the terminal, a message box displays the instance ID "i-0793456c258c948b9 (Assign-ec1)" and public/private IP addresses. The system tray at the bottom shows network connectivity and system status.

A screenshot of an EC2 Instance Connect session. The terminal window shows a text exchange between the user and the instance:

```
Good Morning all
How are yo
```

The terminal window has a title bar "Volumes | EC2 | us-east-1" and "EC2 Instance Connect | us-east-1". Below the terminal, a message box displays the instance ID "i-0793456c258c948b9 (Assign-ec1)" and public/private IP addresses. The system tray at the bottom shows network connectivity and system status.

```
/dev/xvdf: SGI XFS filesystem data (blksize 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

Activate Windows
Go to Settings to activate Windows.

```
/dev/xvdf: SGI XFS filesystem data (blksize 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.

```

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
umount: vcube/batch: not mounted.
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@ip-172-31-82-214:~#

```

i-0793456c258c948b9 (Assign-ec1)
Public IPs: 3.93.82.50 Private IPs: 172.31.82.214

Activate Windows
Go to Settings to activate Windows.

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- Now go to Volumes and detach the volume to instance

Name	Volume ID	Type	Size	IOPS	Throughput
-	vol-07da87df57367098e	gp2	8 GiB	100	-
<input checked="" type="checkbox"/>	vol-0132d1ab4bb25c030	gp3	5 GiB	3000	125

Volume ID: vol-0132d1ab4bb25c030

Details Status checks Monitoring Tags

Volume ID vol-0132d1ab4bb25c030	Size 5 GiB	Type gp3
AWS Compute Optimizer finding <small>Opt-in to AWS Compute Optimizer for recommendations. Learn more ↗</small>	Volume state In-use	IOPS 3000
Encryption Not encrypted	KMS key ID	KMS key alias

Volume status
Okay

Throughput
125

Activate Windows
KMS key ARN
Go to Settings to activate Windows.

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The screenshot shows the AWS Management Console with the EC2 Instances page open. A modal dialog box is centered over the main content, prompting the user to confirm the detachment of a volume. The dialog contains the following text:

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?

At the bottom right of the dialog are two buttons: **Cancel** and **Detach**.

The screenshot shows the AWS EC2 Volumes page in the AWS Management Console. The left sidebar includes links for EC2 Dashboard, EC2 Global View, Events, Console-to-Code (Preview), Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations (New), Images (AMIs, AMI Catalog), and Elastic Block Store. The main content area displays a success message: "Successfully detached volume." Below this is a table titled "Volumes (2) Info" showing two volumes:

Volume ID	Type	Size (GiB)	IOPS	Throughput (Mbps)	Snapshot	Created	Availability Zone	Volume state	Alarm status
vol-091ad9e...	Standard	100	-	-	snap-091ad9e...	2024/02/18 15:15 GMT+5:30	us-east-1a	In-use	No alarms
vol-091ad9f...	Standard	3000	125	-	-	2024/02/18 15:22 GMT+5:30	us-east-1a	Available	No alarms

Below the table is a summary section titled "Summary for all volumes in this Region". It includes a "Snapshot summary" table:

Recently backed up volumes / Total # volumes	Last updated on Sun, Feb 18, 2024, 03:20:21 PM (GMT+05:30)
0 / 1	Create policy

On the right side of the summary table, it says "Data Lifecycle Manager default policy for EBS Snapshots status: No default policy set up | Create policy". At the bottom right, there is an "Activate Windows" link.

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

The screenshot shows the AWS EC2 Dashboard for the US East (N. Virginia) Region. The left sidebar includes links for EC2 Global View, Events, Console-to-Code, Instances (selected), Images, and Elastic Block Store. The main area displays a summary of resources: 0 instances (running), 0 auto scaling groups, 0 dedicated hosts, 0 elastic IPs, 0 instances, 0 key pairs, 0 load balancers, 0 placement groups, 1 security group, 0 snapshots, and 0 volumes. Below this is a 'Launch instance' section with a 'Launch instance' button. To the right, there's a 'Service health' section and a 'EC2 Free Tier' info panel stating '3 EC2 free tier offers in use'. The bottom navigation bar includes CloudShell and Feedback.

The screenshot shows the AWS EC2 Instances page for the US East (N. Virginia) Region. The left sidebar is identical to the previous dashboard. The main area shows a table for 'Instances (1) Info' with one row for 'Assign-ec1' (Instance ID: i-0793456c258c948b9, State: Running, Type: t2.micro). Below the table is a 'Select an instance' dropdown menu. A 'Activate Windows' message is visible at the bottom right. The bottom navigation bar includes CloudShell and Feedback.

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

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links like EC2 Dashboard, EC2 Global View, Events, and Instances. Under Instances, it shows sub-links for Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, and Elastic Block Store. The main content area has a title 'Instances (2) Info' with a search bar. Below it is a table with columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Z. Two rows are listed: 'Assign-ec2' (i-0e29b950dfbfad723, Running, t2.micro, Initializing, us-east-1a) and 'Assign-ec1' (i-0793456c258c948b9, Running, t2.micro, 2/2 checks passed, us-east-1a). A modal window titled 'Select an instance' is open at the bottom. The footer includes standard AWS links and a status bar showing ENG IN, 3:36 PM, and 2/18/2024.

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

The screenshot shows the AWS Instance details page for the instance 'Assign-ec1'. The left sidebar has the same navigation as the previous screenshot. The main content area displays detailed information about the instance, including its IP address (184.73.144.123), instance state (Running), and various network and security settings. At the bottom, there are tabs for Details, Status and alarms, Monitoring, Security, Networking, Storage, and Tags. A 'Details' tab is selected. A 'Volumes' section is visible at the bottom. The footer is identical to the previous screenshot.

Screenshot of the AWS EC2 Volumes console showing a successfully detached volume.

Actions menu open:

- 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

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 Not encrypted	KMS key ID	KMS key alias	

Activate Windows
Go to Settings to activate Windows.

Screenshot of the AWS EC2 Attach Volume console.

Basic details

Volume ID: vol-0132d1ab4bb25c030

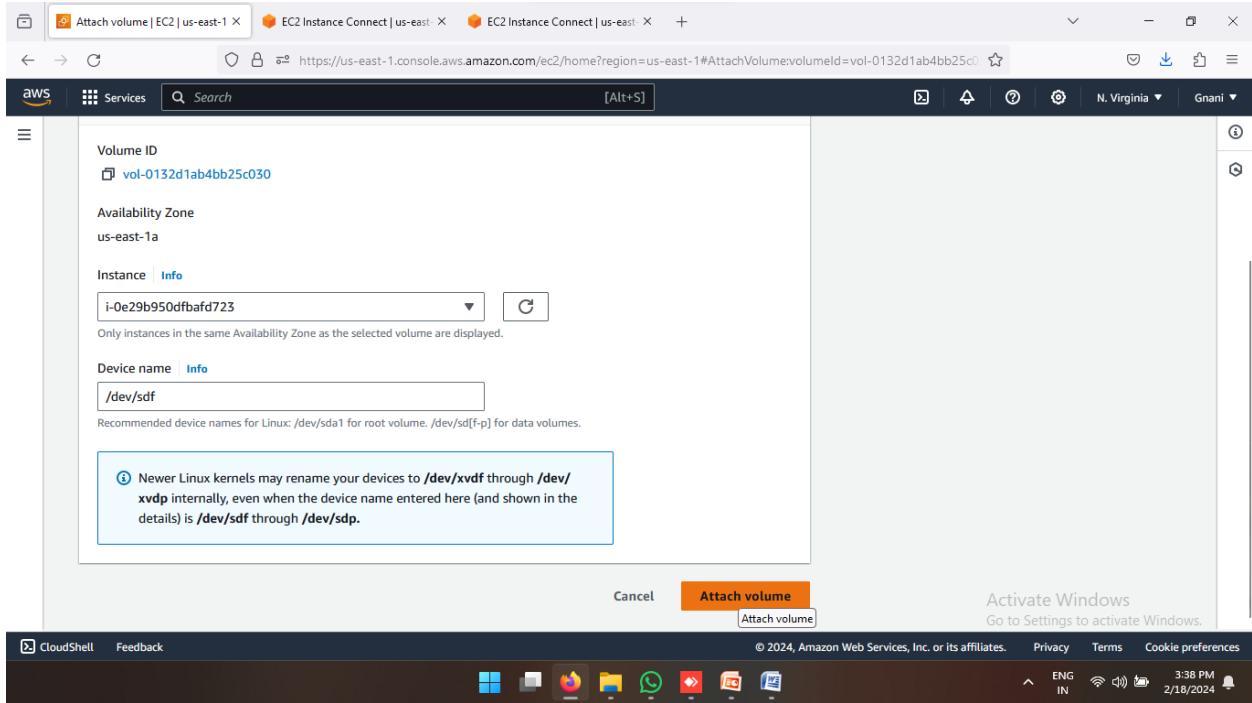
Availability Zone: us-east-1a

Instance:

- i-0e29b950dfbaf723 (Assign-ec2) (running)
- i-0793456c258c948b9 (Assign-ec1) (running)

Buttons: Cancel, Attach volume

Activate Windows
Go to Settings to activate Windows.



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**

```

root@ip-172-31-80-22:~# file -s /dev/xvdf
/dev/xvdf: SGI XFS filesystem data (blksize 4096, inosz 512, v2 dirs)
root@ip-172-31-80-22:~#

```

The screenshot shows the AWS CloudShell terminal window. The terminal prompt is 'root@ip-172-31-80-22:~#'. The user runs the command 'file -s /dev/xvdf', and the output shows that the device is an XFS filesystem. Below the terminal, the CloudShell interface is visible, including the AWS logo, services menu, search bar, and status bar indicating the instance ID, public and private IPs, and the date/time.

Instance details | EC2 | us-east-2 | EC2 Instance Connect | us-east-2 | EC2 Instance Connect | us-east-2 | +

us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-01951842a139ac50f&osUser=ec2-user&sshP... ☆

00:21:39

AWS Services Search [Alt+S]

```
tmpfs      475M   0  475M  0% /dev/shm
tmpfs     190M   2.9M 188M  2% /run
/dev/xvda1  8.0G  1.6G  6.5G  19% /
tmpfs      475M   0  475M  0% /tmp
/dev/xvda128 10M   1.3M  8.7M  13% /boot/efi
tmpfs      95M   0   95M  0% /run/user/1000
[root@ip-172-31-10-146 ~]# lsblk
NAME   MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda   202:0   0   8G  0 disk
└─xvda1  202:1   0   8G  0 part /
  ├─xvda127 259:0   0   1M  0 part
  ├─xvda128 259:1   0   10M 0 part /boot/efi
  └─xvdf   202:80  0   25G 0 disk
[root@ip-172-31-10-146 ~]# file -s /dev/xvdf
/dev/xvdf: SGI XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
[root@ip-172-31-10-146 ~]# mkdir /data
[root@ip-172-31-10-146 ~]# mount /dev/xvdf /data
[root@ip-172-31-10-146 ~]# cd /data
[root@ip-172-31-10-146 data]# ls
f1 shiva3 vcube
[root@ip-172-31-10-146 data]# cat vcube
hello every one!!!
i am satish
[root@ip-172-31-10-146 data]#
```

i-01951842a139ac50f (myinstance2)

PublicIP: 18.117.7.132 PrivateIP: 172.31.10.146

CloudShell Feedback

Type here to search

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31°C Mostly sunny 18:25 27-02-2024