



### ASSIGNMENT - 01

COURSE : DEVOPS

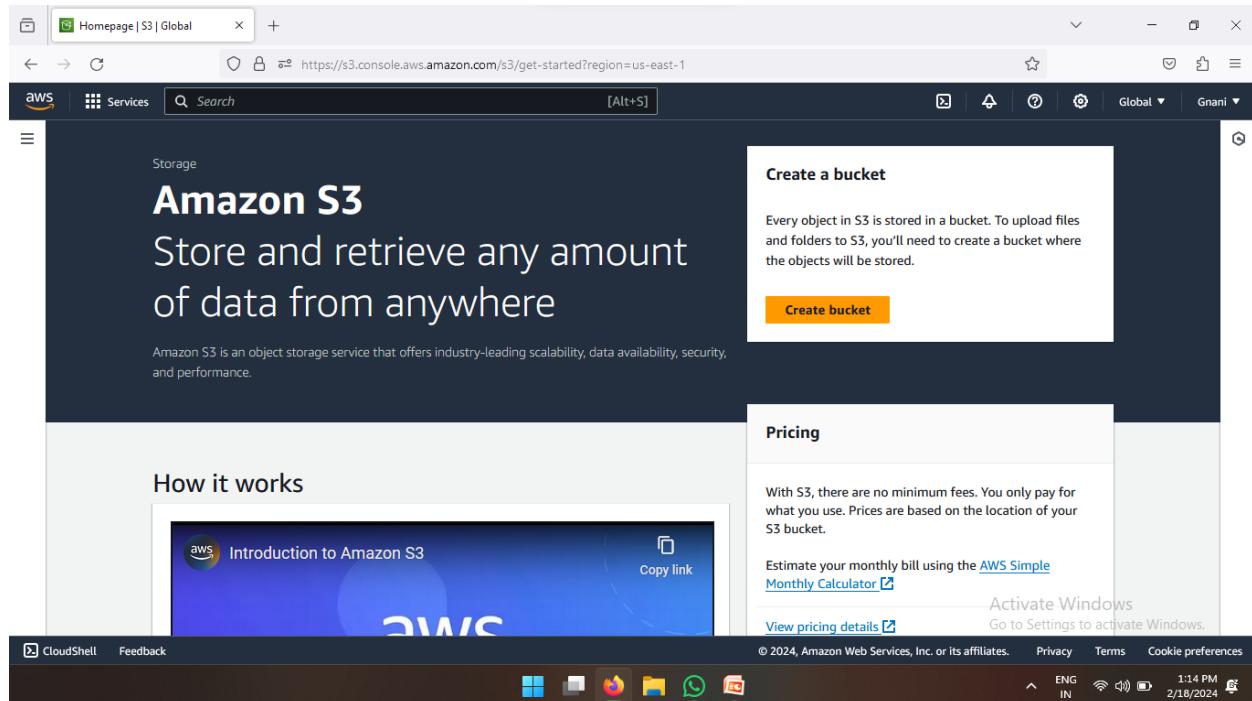
Trainer : Mr . MADHUKAR

NAME :M.SHARON

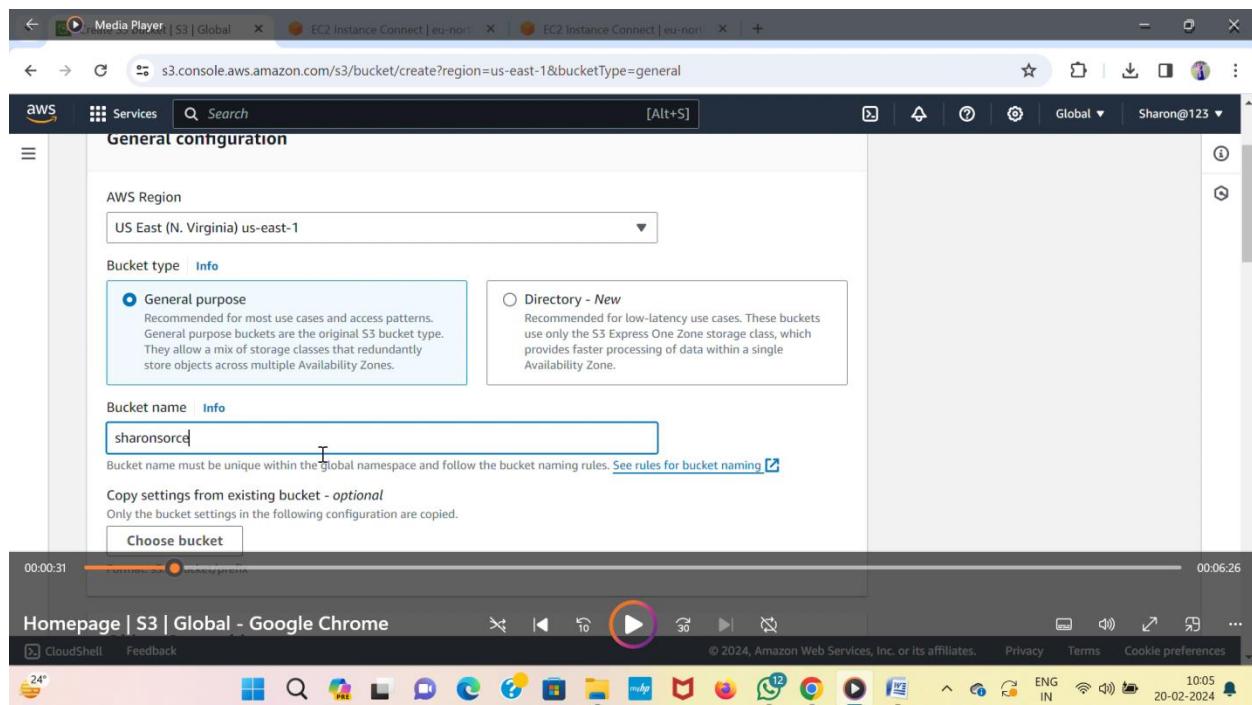
Mail id :m.sharon1406@gmail.com

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

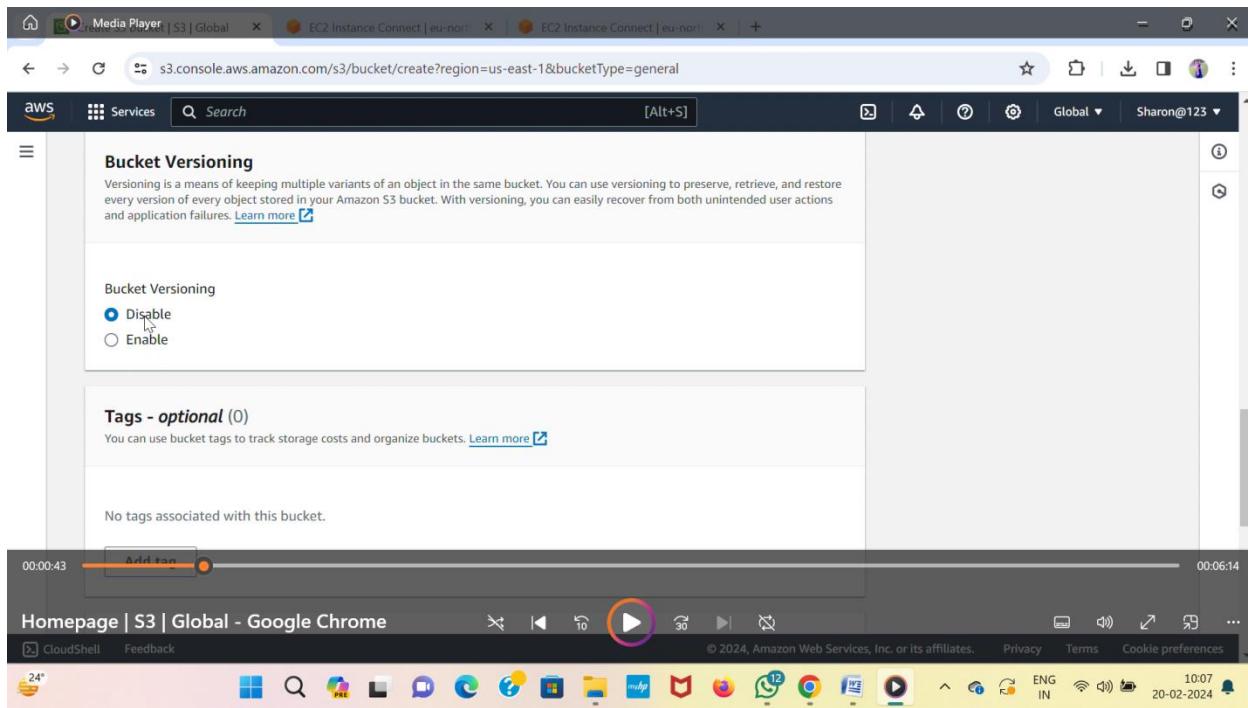
- Go to Amazon S3 , Click on Create Bucket



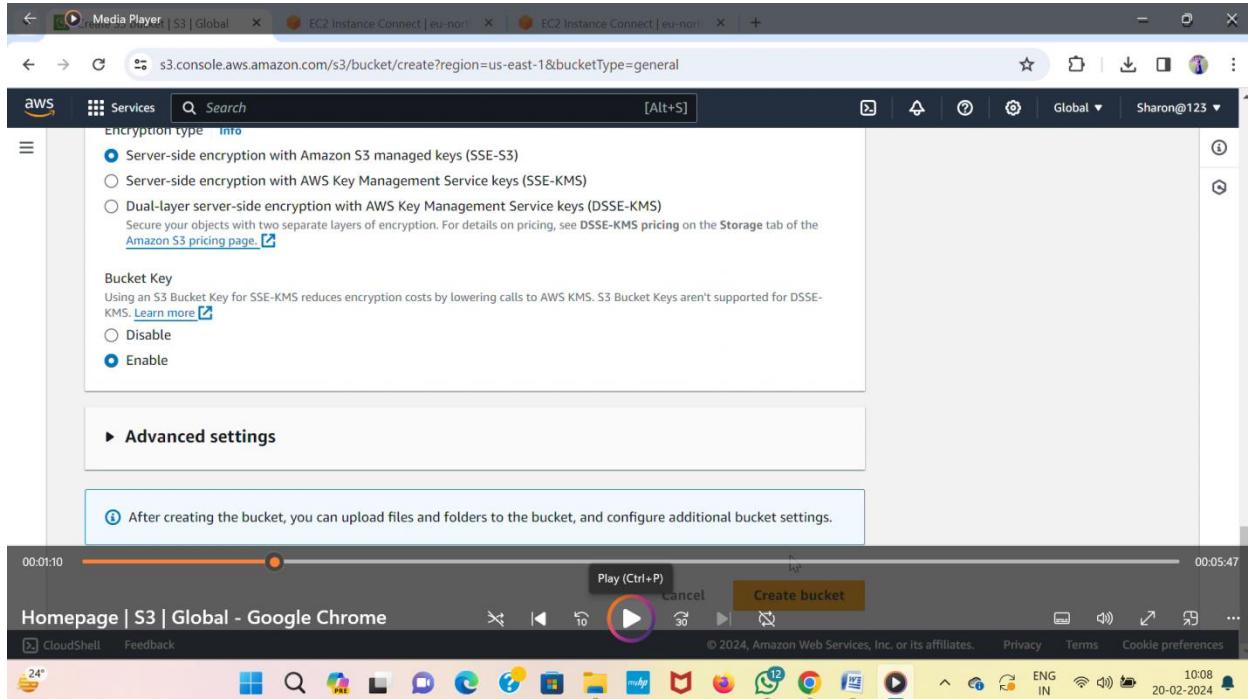
- Enter Bucket Name and Select Any one Region



- Enable Bucket Version



- After that Click on Create Bucket



- One more bucket created in different region.

- Now see the 2 Buckets in different region

The screenshot shows the AWS S3 console interface. At the top, there's a success message: "Successfully created bucket 'sharondestination1'. To upload files and folders, or to configure additional bucket settings, choose View details." Below this, there are tabs for "General purpose buckets" and "Directory buckets". Under "General purpose buckets", there are two entries:

Name	AWS Region	Access	Creation date
sharondestination1	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	February 18, 2024, 11:32:32 (UTC+05:30)
sharonsource1	US East (Virginia) us-east-1	Bucket and objects not public	February 18, 2024, 11:31:48 (UTC+05:30)

The browser status bar at the bottom indicates the page is "Homepage | S3 | Global - Google Chrome" and the time is "20-02-2024 10:08".

- Now go to first bucket and click on upload

The screenshot shows the AWS S3 console for the 'sharonsource1' bucket. The "Objects" tab is selected. At the top, there's a message: "Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions." Below this, there's a search bar and a "Show versions" toggle. The main table lists objects with columns: Name, Type, Last modified, Size, and Storage class.

The browser status bar at the bottom indicates the page is "Homepage | S3 | Global - Google Chrome" and the time is "20-02-2024 10:10".

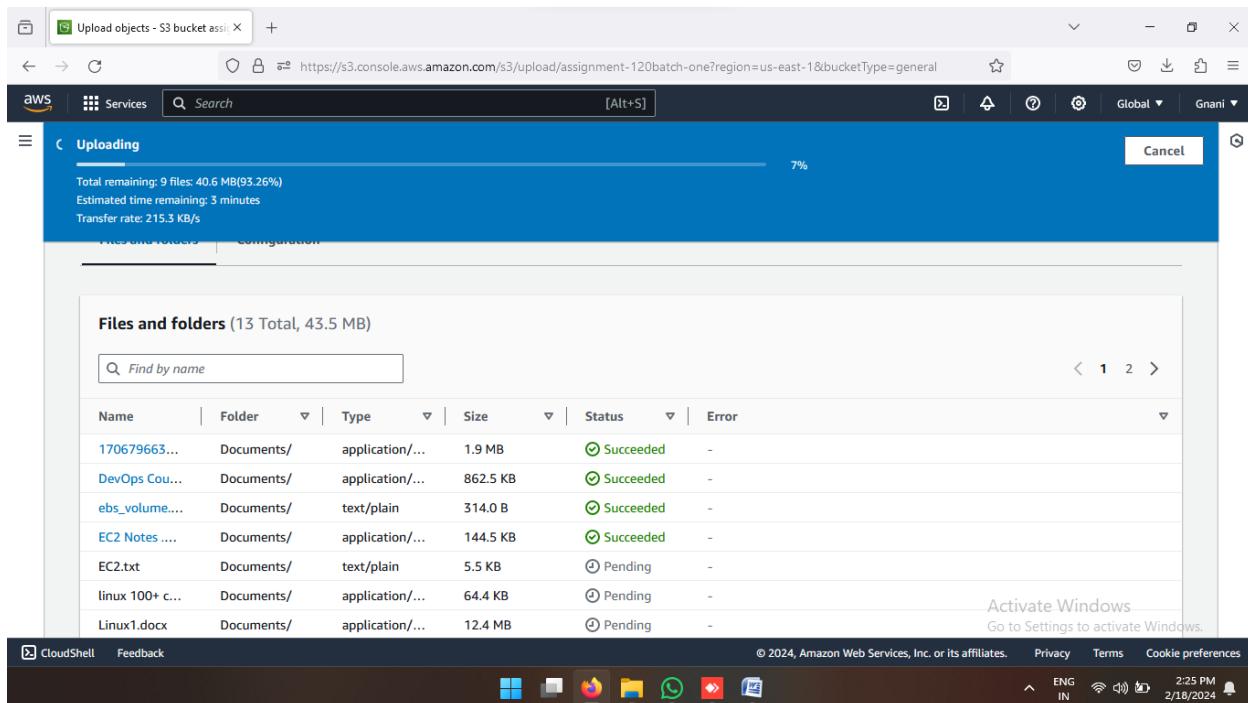
- Then Add Files and Add Folders then upload

The screenshot shows the AWS S3 'Upload objects' interface. At the top, there's a header bar with the AWS logo, services menu, search bar, and user information. Below it, the URL is https://s3.console.aws.amazon.com/s3/upload/assignment-120batch-one?region=us-east-1&bucketType=general. The main area is titled 'Upload' with a 'Info' link. A note says 'Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. Learn more'. Below this is a dashed box for dragging files. A table titled 'Files and folders (13 Total, 43.5 MB)' lists items with columns for Name, Folder, and Type. The table includes rows for '1706796635428\_VPC(virtual private...', 'DevOps Course Syllabus.pdf', 'ebs\_volume.txt', and 'FC2 Notes.docx'. Buttons for 'Remove', 'Add files', and 'Add folder' are at the top of the table. A search bar and pagination controls (1, 2) are also present. On the right, there's an 'Activate Windows' message with a link to settings. The bottom navigation bar includes CloudShell, Feedback, and various icons.

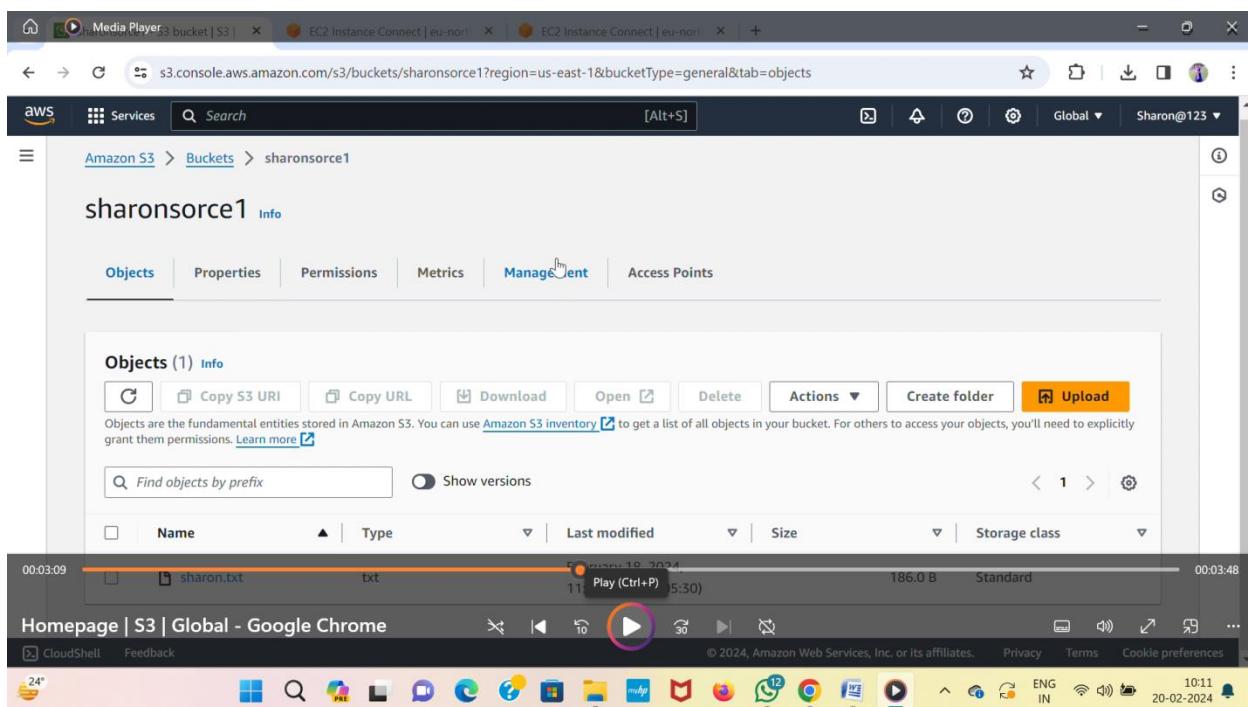
- Click on Upload

This screenshot shows the 'Destination' section of the AWS S3 upload interface. It displays the destination as 's3://assignment-120batch-one'. Under 'Destination details', it says 'Bucket settings that impact new objects stored in the specified destination.' Below this are sections for 'Permissions' (Grant public access and access to other AWS accounts) and 'Properties' (Specify storage class, encryption settings, tags, and more). At the bottom right, there are 'Cancel' and 'Upload' buttons, with 'Upload' being highlighted in yellow. The rest of the interface is identical to the previous screenshot, including the header, file list, and activation message.

- Uploading Files and Folders



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



- In Management Console click on create Replication Rule

The screenshot shows two pages from the AWS Management Console:

- Replication rules (0)**: A table with columns for Replication rule name, Status, Destination bucket, Destination Region, Priority, Scope, Storage class, Replica owner, Replication Time Control, KMS-encrypted objects (SSE-KMS or DSSE-KMS), and Replica modification sync. It displays a message: "No replication rules" and "You don't have any rules in the replication configuration." A "Create replication rule" button is at the bottom.
- Inventory configurations (0)**: A table with columns for Name, Status, Scope, Destination, Frequency, Last export, and Format. It displays a message: "You can create inventory configurations on a bucket to generate a flat file list of your objects and metadata. These scheduled reports can include all objects in the bucket or be limited to a shared prefix." A "Create inventory configuration" button is at the bottom.

- Enter Replication rule name

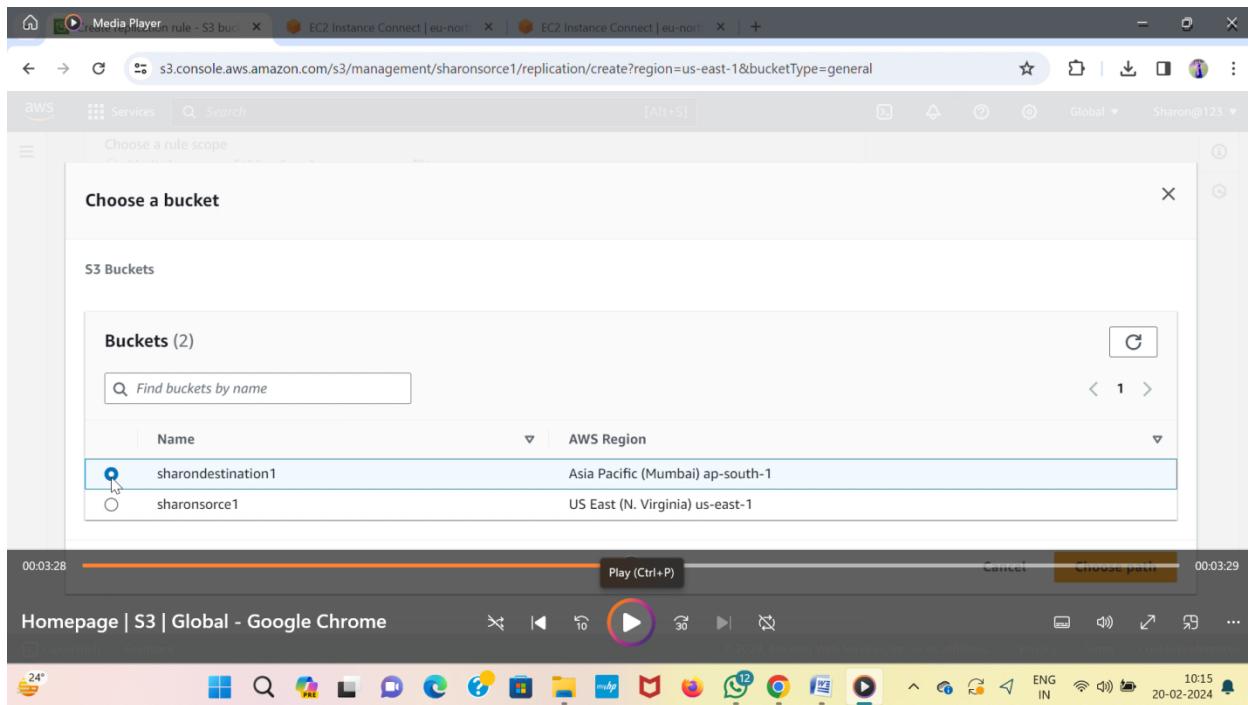
The screenshot shows the "Create replication rule" configuration page:

- Replication rule configuration** section:
  - Replication rule name**: A text input field containing "sharon". A tooltip says: "Up to 255 characters. In order to be able to use CloudWatch metrics to monitor the progress of your replication rule, the replication rule name must only contain English characters."
  - Status**: A radio button group where "Enabled" is selected.
  - Priority**: A slider set to 0. A tooltip says: "The priority value resolves conflicts that occur when an object is eligible for replication under multiple rules to the same destination. The rule is added to the configuration at the highest priority and the priority can be changed on the replication rules table."

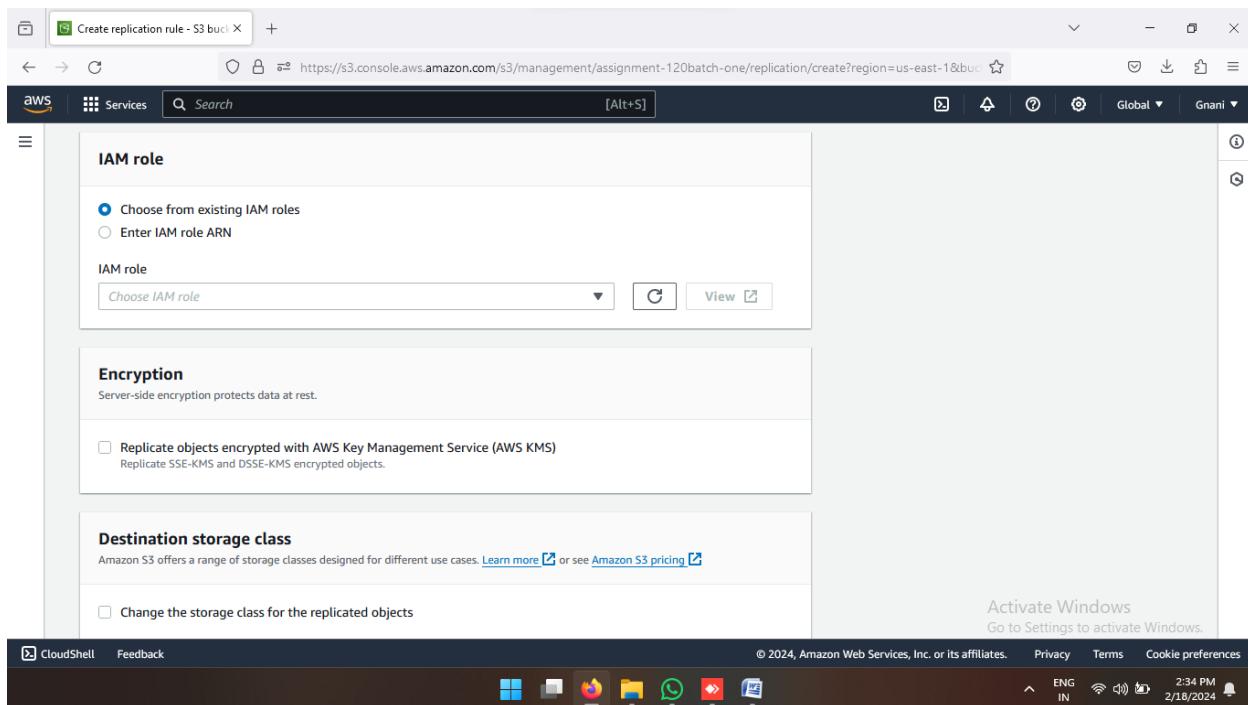
- Click on Apply to all objects in the bucket

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

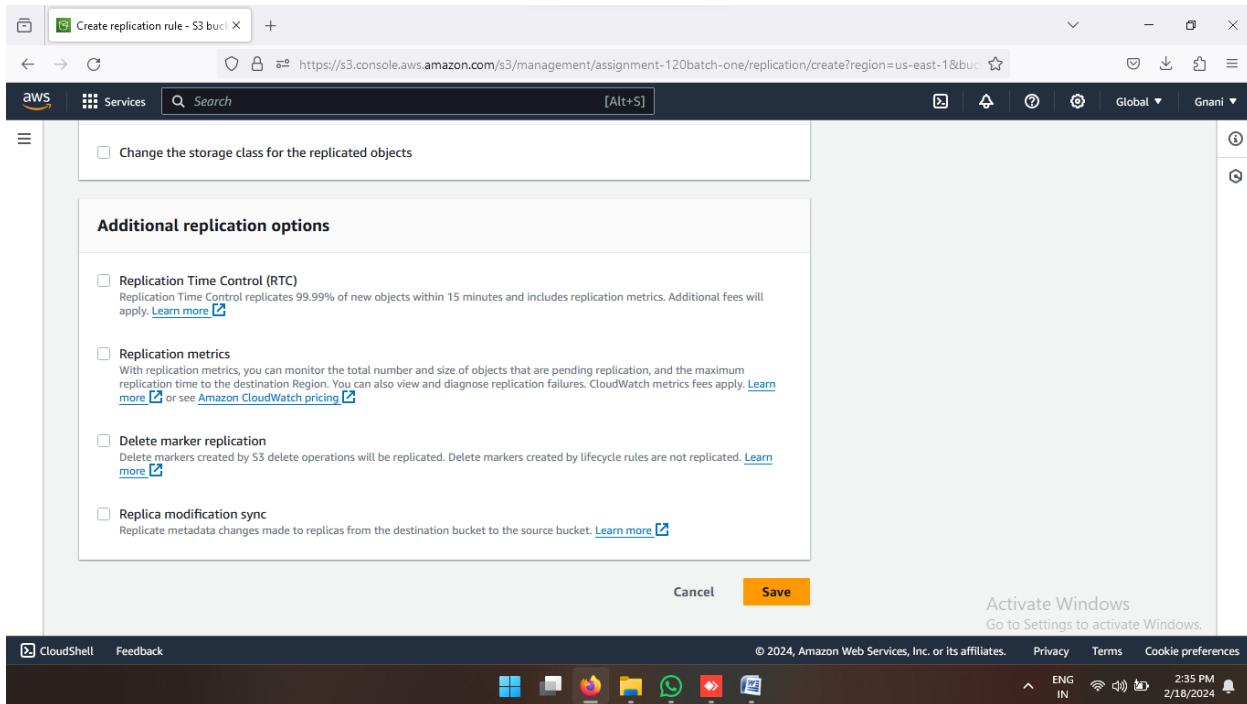
- Select another region Bucket (or) Where ever you want to see the data that bucket select and click on choose path



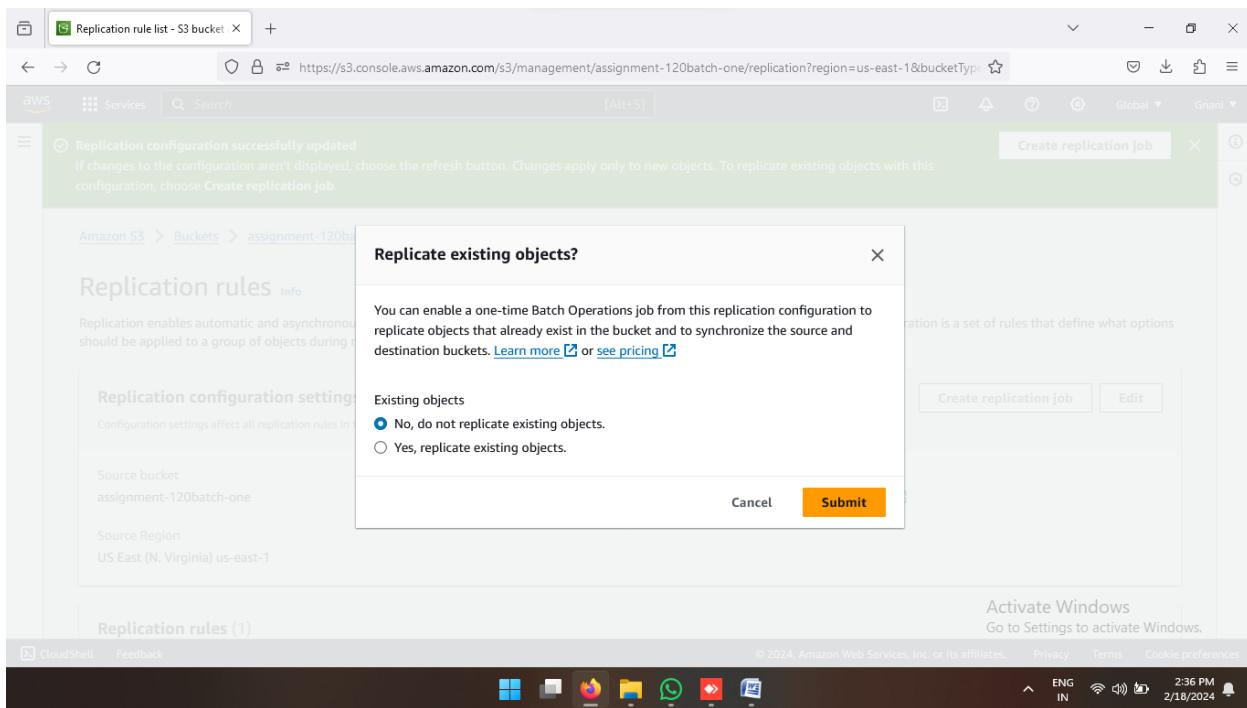
- Now choose from existing IAM roles
- Select Drop down Create a new role



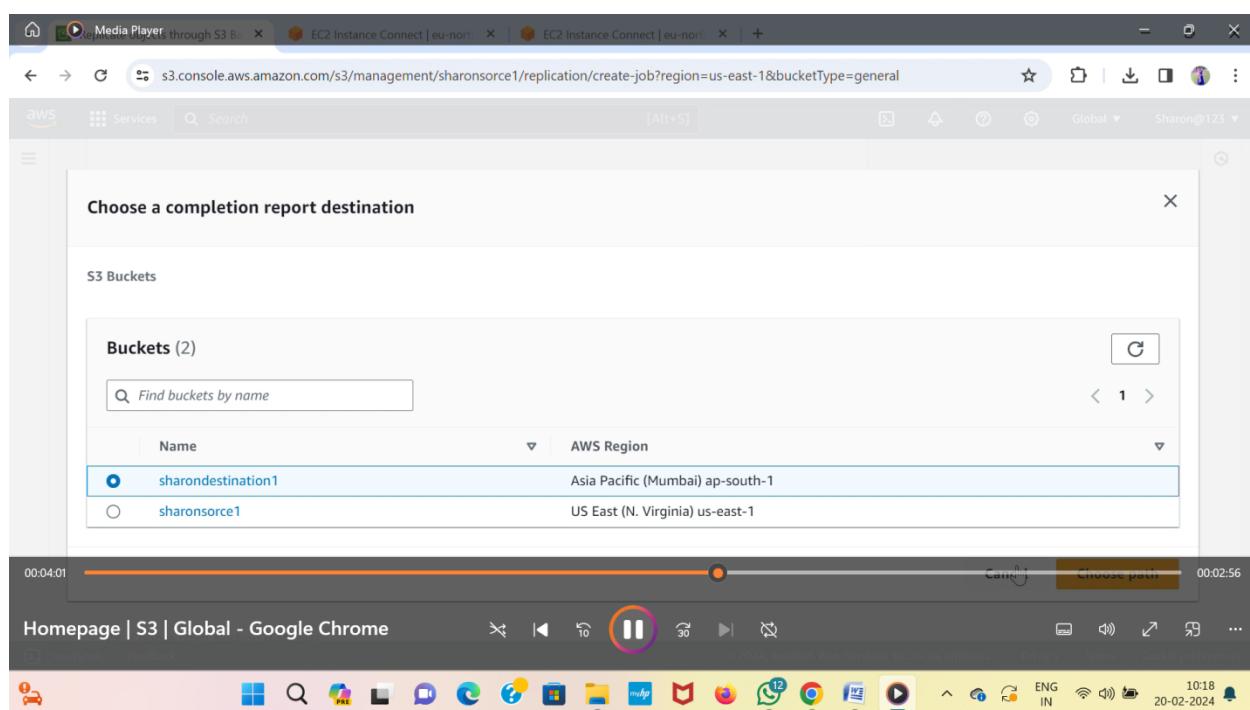
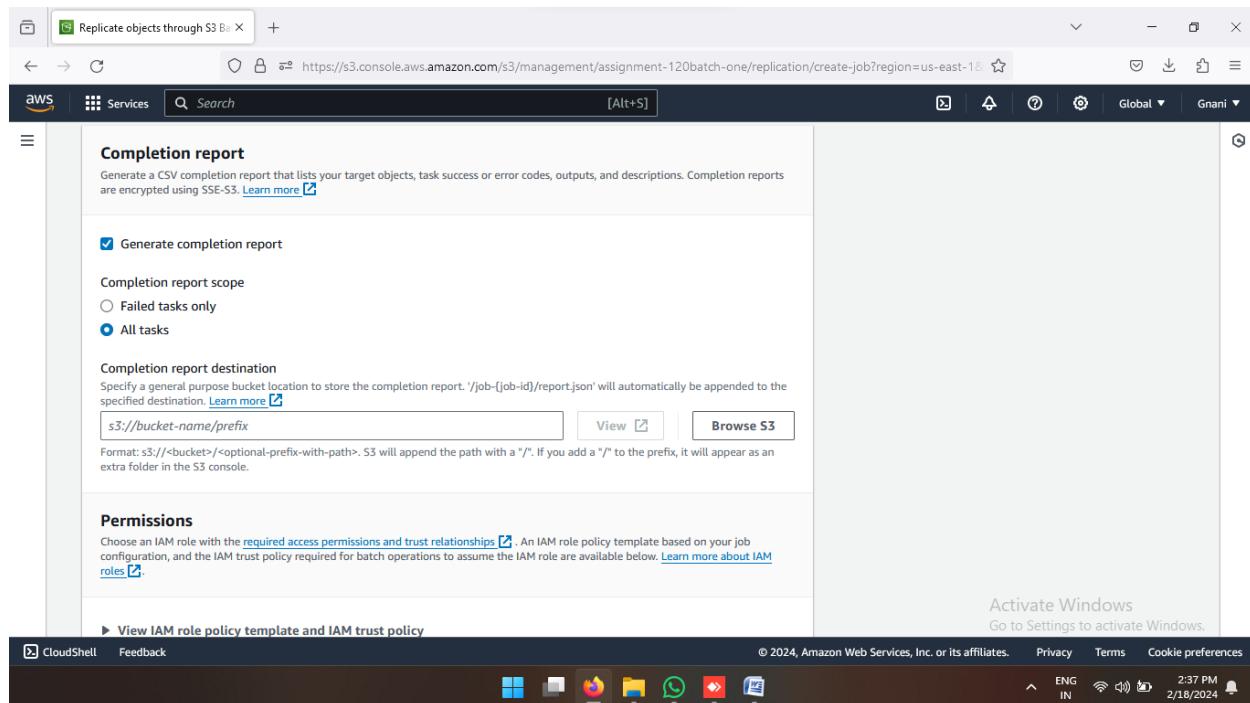
- Then Save the Replication Rule



- 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



Media Player through S3 | EC2 Instance Connect | eu-north-1 | EC2 Instance Connect | eu-north-1 | +

s3.console.aws.amazon.com/s3/management/sharonsource1/replication/create-job?region=us-east-1&bucketType=general

AWS Services Search [Alt+S] Global Sharon@123

specified destination. [Learn more](#)

s3://sharondestination1 View Browse S3

Format: s3://<bucket>/<optional-prefix-with-path>. S3 will append the path with a "/". If you add a "/" to the prefix, it will appear as an extra folder in the S3 console.

**Permissions**

Choose an IAM role with the [required access permissions and trust relationships](#). An IAM role policy template based on your job configuration, and the IAM trust policy required for batch operations to assume the IAM role are available below. [Learn more about IAM roles](#)

▶ [View IAM role policy template and IAM trust policy](#)

Choose from existing IAM roles  
 Enter IAM role ARN

IAM role

Create new role

00:04:13 00:02:44

Cancel Save

Homepage | S3 | Global - Google Chrome CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 10:19 20-02-2024

- 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.

Media Player jobs | S3 | EC2 Instance Connect | eu-north-1 | EC2 Instance Connect | eu-north-1 | +

s3.console.aws.amazon.com/s3/jobs?region=us-east-1

AWS Services Search [Alt+S] Global Sharon@123

Amazon S3 > Batch Operations

**Batch Operations** [Info](#)

A job is used to execute batch operations on a list of S3 objects. The list of S3 objects is contained in a manifest object, which can be an S3 inventory report or a list of objects that you generate. After the total number of objects listed in the manifest has been confirmed, the job status will update to *Awaiting your confirmation to run*, and you must [Run job](#) within 30 days. Job events are published to [CloudWatch Events](#). Jobs are deleted 90 days after they finish or fail. [Learn more](#)

Jobs (2)

Search by job ID or description All status types

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

Job ID	Status	Description	Operation	Date created	Total objects	% Complete	Total failed (rate)	Priority
d50f6fdc-08ce-4b14-... 2024-02-18 -	Not yet available	Replicate	10	2024-02-18, 1:3:30	0	0%	0 (0%)	...

00:04:35 00:02:22

Play (Ctrl+P)

Homepage | S3 | Global - Google Chrome CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 10:21 20-02-2024

Jobs (2)

Job ID	Status	Description	Operation	Date created	Total objects	% Complete	Total failed (rate)	Priority
d50f6fdc-08ce-4b14-88d7-c0891b38ae02	New	2024-02-18 - Replicate	Replicate	February 18, 2024, 11:34:28 (UTC+05:30)	Not yet available	0%	0 (0%)	
4e70c051-b75c-44cb-bb5a-6c2925c17720	Completed	2024-02-13 - Replicate	Replicate	February 13, 2024, 17:53:14 (UTC+05:30)	2	100%	1 (50%)	00:02:16

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

Amazon S3

Buckets

- Access Grants
- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

General purpose buckets (2) [Info](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Name	AWS Region	Access	Creation date
sharondestination1	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	February 18, 2024, 11:32:32 (UTC+05:30)
sharonsource1	US East (N. Virginia) us-east-1	Bucket and objects not public	February 18, 2024, 11:31:48 (UTC+05:30)

- Now See the data in Destination Bucket.

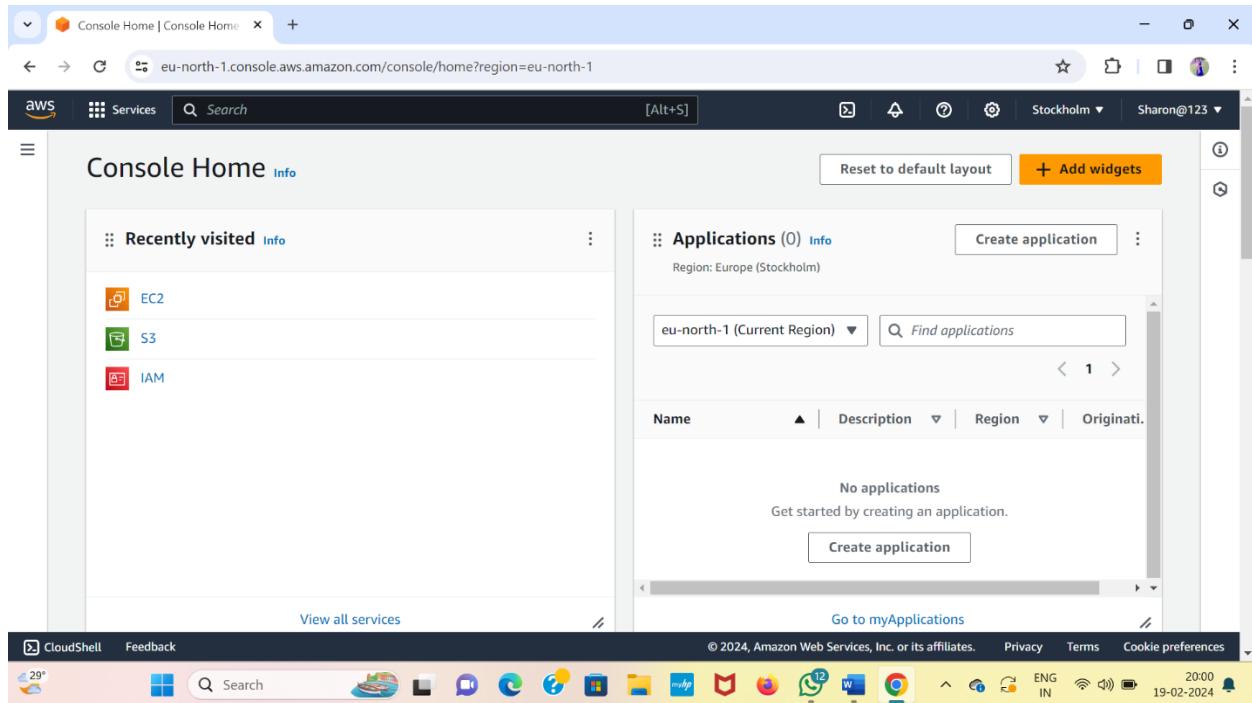
The screenshot shows the AWS S3 console interface. The left sidebar has sections for Buckets, Access Grants, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, and IAM Access Analyzer for S3. Below these are links for Block Public Access settings for this account and Storage Lens. The main area displays 'Objects (2) Info' with a table showing one item: 'job-d50f6fdc-08ce-4b14-88d7-c0891b38ae02/' which is a 'Folder'. At the bottom, there's a status bar showing 'February 18, 2024', 'Storage Lens groups', and other system information like battery level and time.

Name	Type	Last modified	Size	Storage class
job-d50f6fdc-08ce-4b14-88d7-c0891b38ae02/	Folder	-	-	Standard

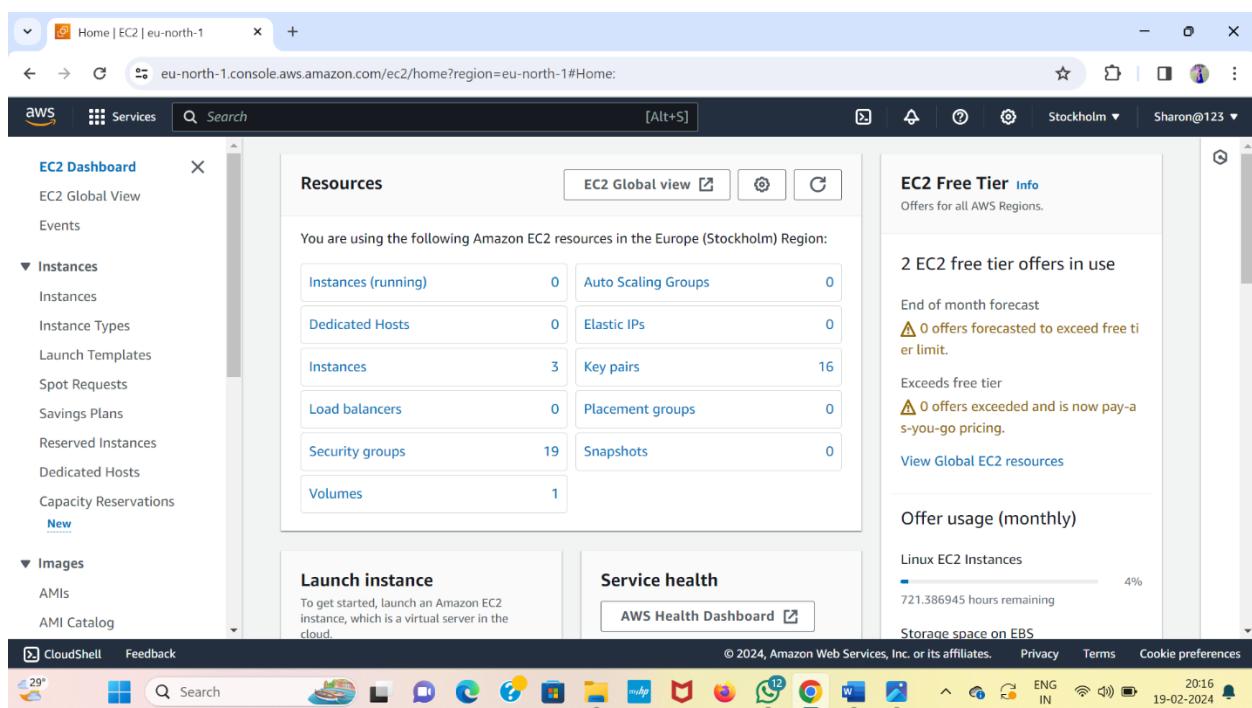
\*\*\*\*\* END \*\*\*\*\*

### 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

The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with options like EC2 Dashboard, EC2 Global View, Events, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and Images. The main area displays a table of instances with columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability. Three instances are listed: alekhya-task, nani, and alekhya, all in a Terminated state. At the top right of the main area, there's a prominent orange 'Launch instances' button.

- Enter Name and select operating system

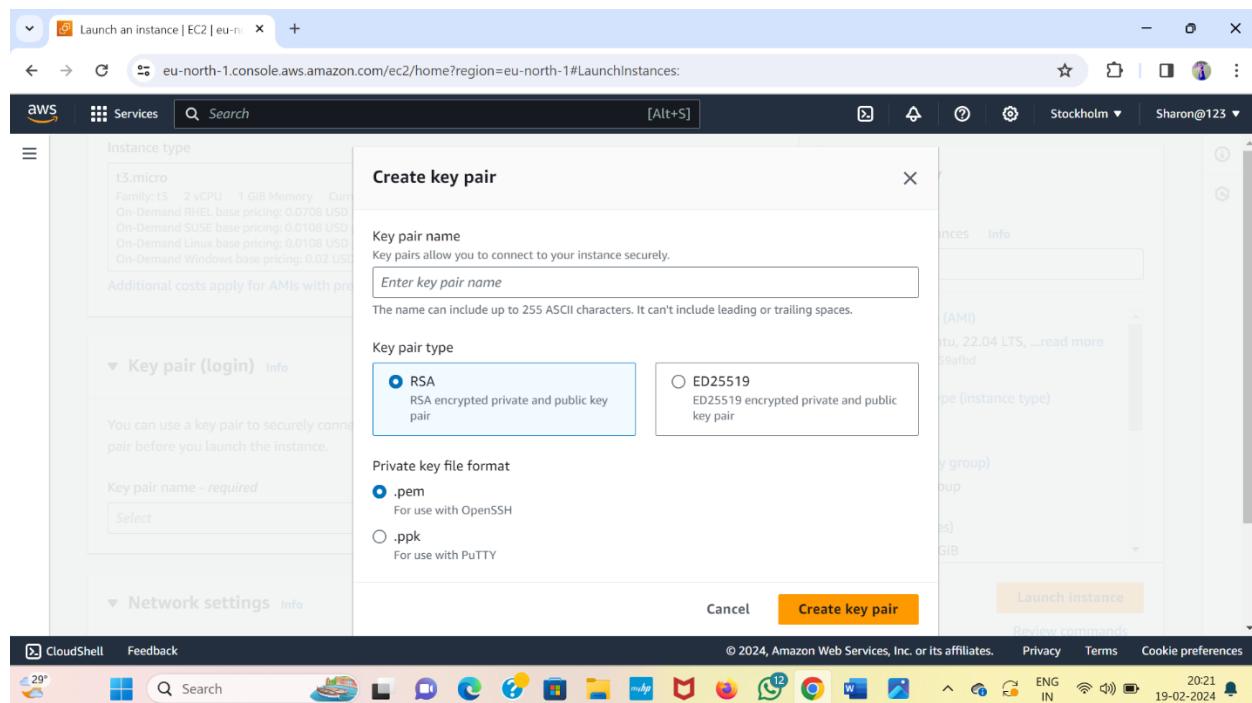
The screenshot shows the 'Launch an instance' wizard. It consists of three main sections: Step 1 (Name and tags), Step 2 (Application and OS Images (Amazon Machine Image)), and Step 3 (Summary). In Step 1, a 'Name' field contains 'sharon1'. In Step 2, a note about AMIs is shown. In Step 3, settings include 1 instance, Amazon Linux 2023 AMI 2023.3.2..., t3.micro instance type, and 1 volume(s) - 8 GiB storage. The 'Launch instance' button is highlighted in orange at the bottom right of the summary section.

The screenshot shows the AWS CloudShell interface with the EC2 service selected. In the main pane, a search bar at the top says "looking for below" and "Search our full catalog including 1000s of application and OS images". Below it, a "Quick Start" section displays several AMI options: Amazon Linux, macOS, Ubuntu, Windows, and Red Hat. A "Browse more AMIs" link is also present. The "Amazon Machine Image (AMI)" section shows "Ubuntu Server 22.04 LTS (HVM), SSD Volume Type" with an AMI ID of "ami-0014ce3e52359afbd". The instance type is listed as "t3.micro". The "Description" section notes "Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2023-12-07". The "Architecture" and "AMI ID" fields are also visible. On the right side, a "Summary" panel shows "Number of instances: 1", "Software Image (AMI) Canonical, Ubuntu, 22.04 LTS, ...read more", "Virtual server type (instance type) t3.micro", "Firewall (security group) New security group", and "Storage (volumes) 1 volume(s) - 8 GiB". At the bottom right are "Cancel", "Launch instance" (which is highlighted in orange), and "Review commands". The status bar at the bottom indicates "CloudShell Feedback" and shows various system icons.

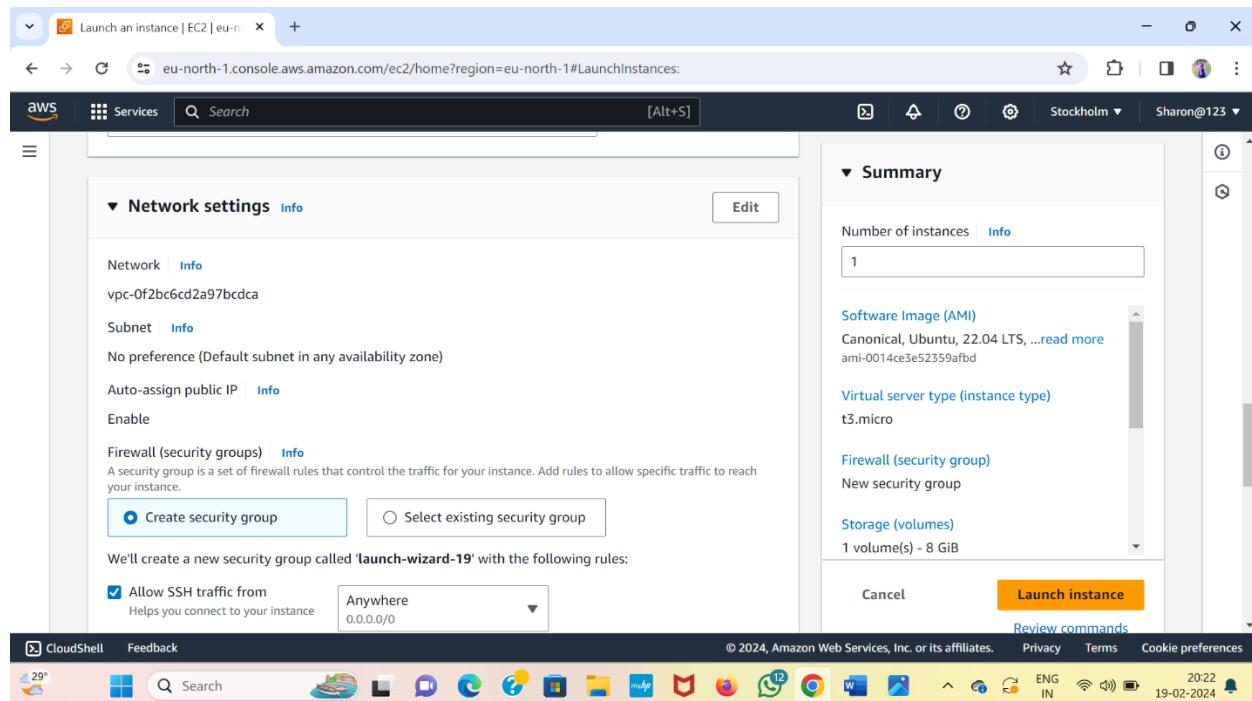
- Now Click a Create new key pair

This screenshot is identical to the previous one, showing the "Launch instance" step. However, a new section titled "Key pair (login)" has been expanded. It contains a "Key pair name - required" dropdown menu with "Select" and a "Create new key pair" button. The "Network settings" section is also visible, showing "Network" (Info: vpc-0f2bc6cd2a97bcdca), "Subnet" (Info: No preference (Default subnet in any availability zone)), and "Auto-assign public IP" (Info). The right-hand "Summary" panel and the bottom status bar remain the same.

- Enter a key name and click on create key pair



- Now Click on launch instance



The screenshot shows the AWS EC2 'Launch an instance' page. At the top, there is a green success banner stating 'Successfully initiated launch of instance (i-0c1596f041f15be85)'. Below the banner, there is a 'Next Steps' section with several options:

- Create billing and free tier usage alerts
- Connect to your instance
- Connect an RDS database
- Create EBS snapshot policy

Below these steps is a search bar with the placeholder 'What would you like to do next with this instance, for example "create alarm" or "create backup"'.

The bottom of the screen shows the Windows taskbar with various pinned icons and system status information.

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

The screenshot shows the AWS EC2 'Instances' page. On the left, there is a navigation sidebar with categories like EC2 Dashboard, EC2 Global View, Events, Instances, Images, and AMIs. The 'Instances' category is expanded, showing sub-options such as Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and a 'New' button.

The main content area displays a table titled 'Instances (4) Info' showing the following data:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
sharon1	i-0c1596f041f15be85	Running	t3.micro	Initializing	<a href="#">View alarms</a> +	eu-nor
alekhya-task	i-0c22fe00ef22b6008	Terminated	t3.micro	-	<a href="#">View alarms</a> +	eu-nor
nani	i-06492d4a03815113d	Terminated	t3.micro	-	<a href="#">View alarms</a> +	eu-nor
alekhya	i-0fa7ccb0744fad372	Terminated	t3.micro	-	<a href="#">View alarms</a> +	eu-nor

At the bottom of the page, there is a 'Select an instance' section and the standard AWS footer with copyright information and links.

Instance details | EC2 | eu-north-1

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#InstanceDetails:instanceId=i-0c1596f041f15be85

Services Search [Alt+S]

EC2 Instances i-0c1596f041f15be85

Instance summary for i-0c1596f041f15be85 (sharon1) [Info](#)

C Connect Instance state Actions

Updated less than a minute ago

Instance ID i-0c1596f041f15be85 (sharon1)	Public IPv4 address 13.49.46.157 <a href="#">open address</a>	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 <a href="#">open address</a>
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	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t3.micro	AWS Compute Optimizer finding <a href="#">Opt-in to AWS Compute Optimizer for recommendations.</a>
Auto-assigned IP address 13.49.46.157 [Public IP]	VPC ID vpc-0f2bc6cd2a97bcdca	

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Connect to instance | EC2 | eu-north-1

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#ConnectToInstance:instanceId=i-0c1596f041f15be85

Services Search [Alt+S]

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.

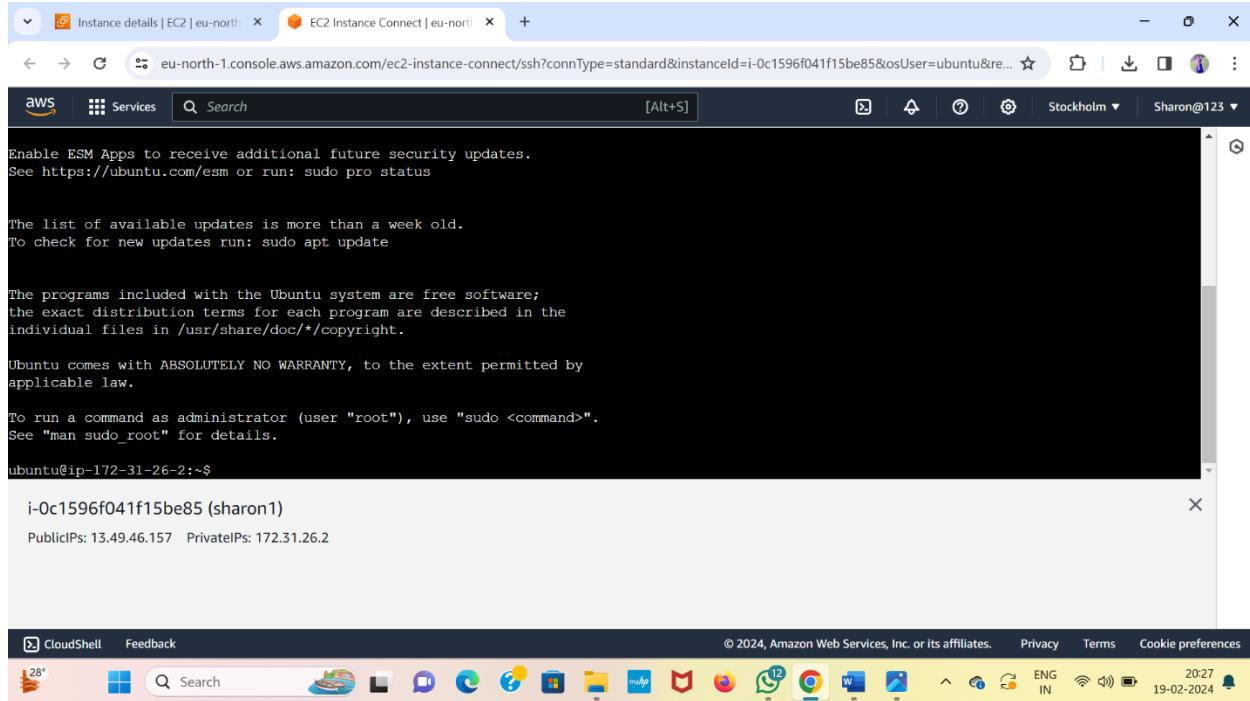
Cancel Connect

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- Now Connected server

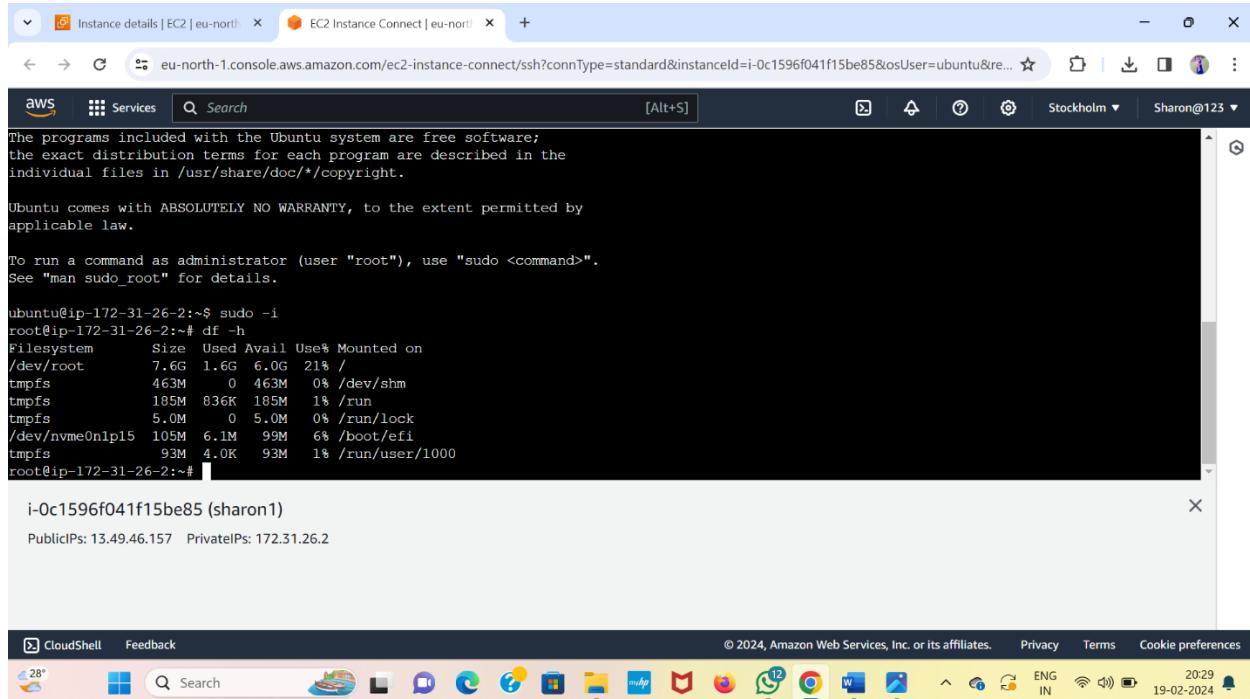


The screenshot shows a web browser window titled "EC2 Instance Connect | eu-north-1". The URL is "eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0c1596f041f15be85&osUser=ubuntu&re...". The browser interface includes tabs for "Instance details | EC2 | eu-north-1" and "EC2 Instance Connect | eu-north-1". The main content area displays a terminal session on an Ubuntu system. The terminal output includes:

```
Enable ESM Apps to receive additional future security updates.  
See https://ubuntu.com/esm or run: sudo pro status  
  
The list of available updates is more than a week old.  
To check for new updates run: sudo apt update  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-172-31-26-2:~$  
i-0c1596f041f15be85 (sharon1)  
Public IPs: 13.49.46.157 Private IPs: 172.31.26.2
```

The bottom of the browser window shows a Windows taskbar with various icons and system status information.

- df -h** this command check user size



The screenshot shows a web browser window titled "EC2 Instance Connect | eu-north-1". The URL is "eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0c1596f041f15be85&osUser=ubuntu&re...". The browser interface includes tabs for "Instance details | EC2 | eu-north-1" and "EC2 Instance Connect | eu-north-1". The main content area displays a terminal session on an Ubuntu system. The terminal output includes:

```
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-172-31-26-2:~$ sudo -i  
root@ip-172-31-26-2:~# df -h  
Filesystem      Size  Used Avail Use% Mounted on  
/dev/root      7.6G  1.6G  6.0G  21% /  
tmpfs          463M    0  463M   0% /dev/shm  
tmpfs          185M  836K  185M   1% /run  
tmpfs          5.0M    0  5.0M   0% /run/lock  
/dev/nvme0n1p15 105M  6.1M  99M   6% /boot/efi  
tmpfs          93M   4.0K  93M   1% /run/user/1000  
root@ip-172-31-26-2:~#
```

The bottom of the browser window shows a Windows taskbar with various icons and system status information.

- Now go to ebs then volumes

Instance details | EC2 | eu-north-1 | EC2 Instance Connect | eu-north-1 | +

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#InstanceDetails:instanceId=i-0c1596f041f15be85

**EC2 Dashboard**

**Instances**

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations
- New

**Images**

- AMIs
- AMI Catalog

**Details** | Status and alarms New | Monitoring | Security | Networking | Storage | Tags

IPv6 address	-	Instance state	Running	Public IPv4 DNS
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	ec2-13-49-46-157.eu-north-1.compute.amazonaws.com [open address]
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
IAM Role	-	Subnet ID	subnet-0b68904685296a7df	Opt-in to AWS Compute Optimizer for recommendations.
IMDSv2	Required			[Learn more]

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CloudShell Feedback 28° Search ENG IN 20:30 19-02-2024

- Click on Create Volume

Volumes | EC2 | eu-north-1 | EC2 Instance Connect | eu-north-1 | +

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Volumes:

**Volumes (2) Info**

**Create volume**

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
-	vol-0a264f7dc7995f594	gp3	15 GiB	3000	128	-
-	vol-0fde8a3c4122dd4f2	gp2	8 GiB	100	-	snap-012f83d...

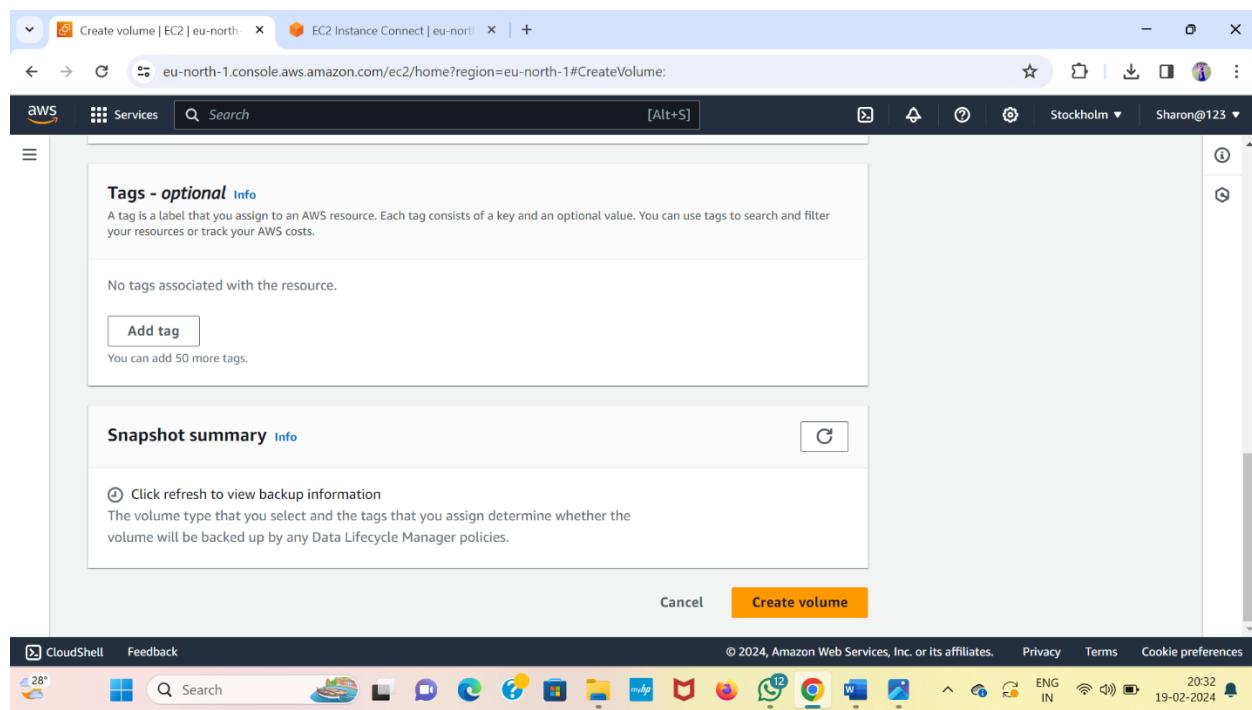
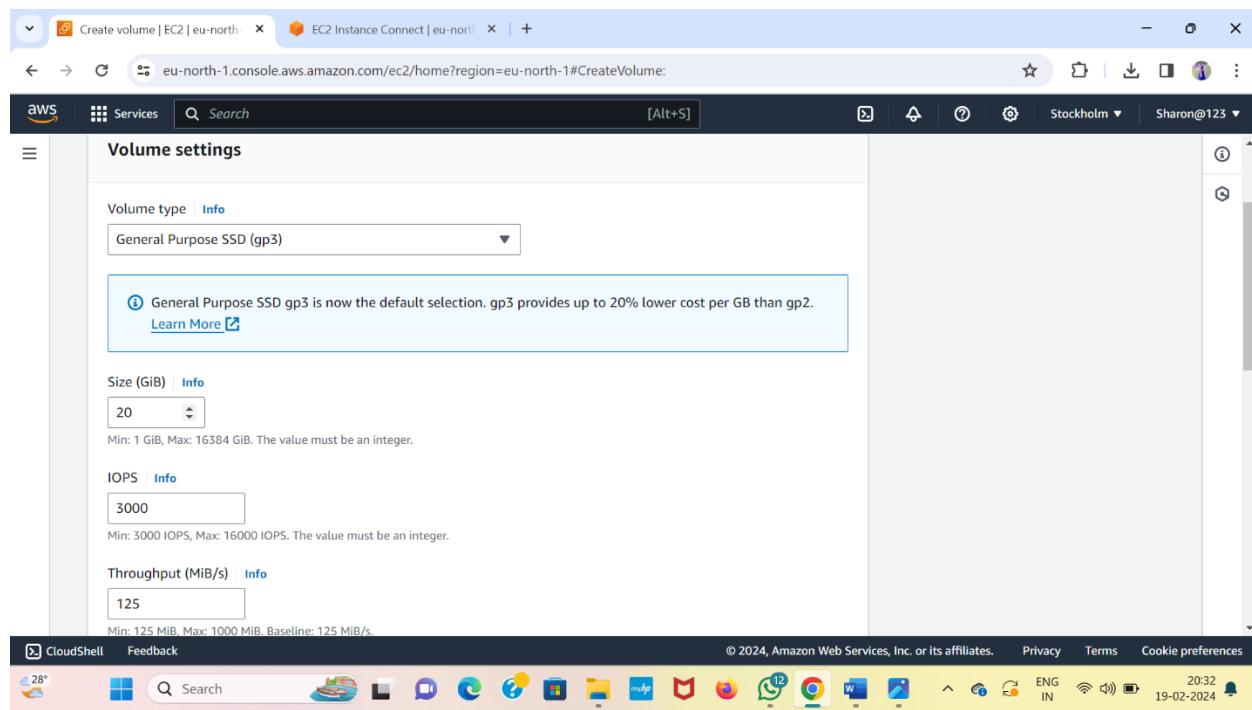
**Elastic Block Store**

- Volumes
- Snapshots
- Lifecycle Manager

**Network & Security**

CloudShell Feedback 28° Search ENG IN 20:31 19-02-2024

- 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.

The screenshot shows the AWS CloudShell interface. In the top navigation bar, there are tabs for 'Volumes | EC2 | eu-north-1' and 'EC2 Instance Connect | eu-north-1'. The main content area displays a success message: 'Successfully created volume vol-07522308a1e6deec2.' Below this, a table lists three volumes. The third volume, 'vol-07522308a1e6deec2', has a status of 'Available' and an 'In-use' icon. The table includes columns for IOPS, Throughput, Snapshot, Created, Availability Zone, Volume state, and Actions. A search bar and a 'Create volume' button are also present. On the left sidebar, under 'Elastic Block Store', the 'Volumes' option is selected. The bottom of the screen shows a taskbar with various application icons.

This screenshot is similar to the previous one but focuses on the 'Actions' dropdown menu for the newly created volume. The 'Actions' menu is open, showing options such as 'Modify volume', 'Create snapshot', 'Create snapshot lifecycle policy', 'Delete volume', 'Attach volume', 'Detach volume', 'Force detach volume', 'Manage auto-enabled I/O', 'Manage tags', and 'Fault injection'. The 'Modify volume' option is highlighted with a blue border. The rest of the interface, including the volume list and sidebar, remains the same.

The screenshot shows the AWS CloudShell interface with two tabs open: "Attach volume | EC2 | eu-north-1" and "EC2 Instance Connect | eu-north-1". The main content area displays the attachment process for an EC2 volume. A message box indicates that only instances in the same Availability Zone (eu-north-1a) are displayed. The device name is set to "/dev/sdf". A note states that newer Linux kernels may rename devices to /dev/xvdf through /dev/xvdp internally. The "Attach volume" button is visible at the bottom right.

Availability Zone  
eu-north-1a

Instance Info  
i-0c1596f041f15be85

Device name Info  
/dev/sdf

Only instances in the same Availability Zone as the selected volume are displayed.

Recommended device names for Linux: /dev/sda1 for root volume, /dev/sdf-p for data volumes.

ⓘ Newer Linux kernels may rename your devices to `/dev/xvdf` through `/dev/xvdp` internally, even when the device name entered here (and shown in the details) is `/dev/sdf` through `/dev/sdp`.

Cancel Attach volume

CloudShell Feedback 28° Search 2036 19-02-2024

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The screenshot shows the AWS Volumes page with a success message: "Successfully attached volume vol-07522308a1e6deec2 to instance i-0c1596f041f15be85." The "Actions" menu for the selected volume is open, showing options like "Create snapshot lifecycle policy", "Delete volume", "Attach volume", "Detach volume", "Force detach volume", "Manage auto-enabled I/O", "Manage tags", and "Fault injection".

EC2 Dashboard X

EC2 Global View

Events

Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations
- New

Images

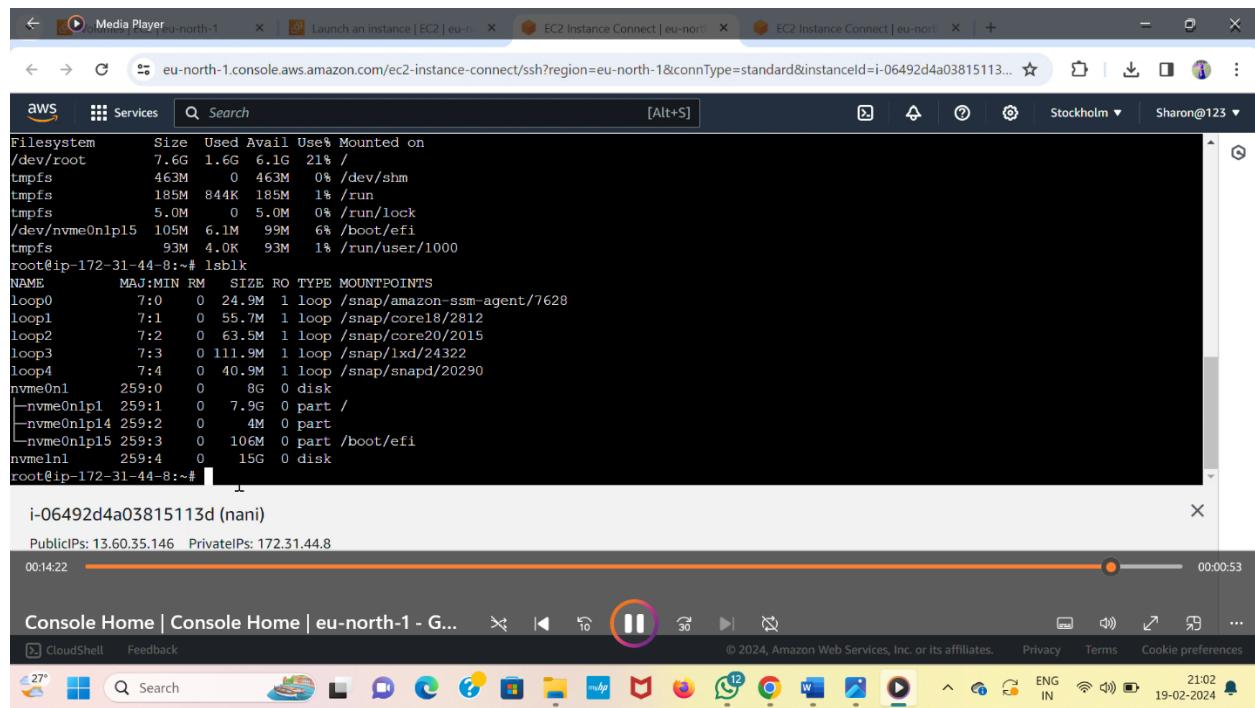
- AMIs
- AMI Catalog

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- Now Go to EC2 Connected server

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



```

Filesystem      Size  Used Avail Use% Mounted on
/dev/root      7.6G  1.6G  6.1G  21% /
tmpfs          463M    0   463M   0% /dev/shm
tmpfs          195M  844K  195M   1% /run
tmpfs          5.0M    0   5.0M   0% /run/lock
/dev/nvme0n1p15 105M  6.1M  99M   6% /boot/efi
tmpfs          93M  4.0K  93M   1% /run/user/1000
root@ip-172-31-44-8:~# 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/1xd/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 /
  ├─nvme0n1p4 259:2   0   4M  0 part
  └─nvme0n1p5 259:3   0 106M 0 part /boot/efi
nvme0n1p15 259:4   0   15G 0 disk
root@ip-172-31-44-8:~# i-06492d4a03815113d (nani)
PublicIPs: 13.60.35.146 PrivateIPs: 172.31.44.8
00:14:22           00:00:53
Console Home | Console Home | eu-north-1 - G...  || 30%  ...
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27°  Search  21:02  19-02-2024

```

- 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 a root shell on an Ubuntu instance (i-022c9bcdeeb3381b2). The user runs several commands to check file system parameters and create a directory structure. Below the terminal is a video player interface for a video titled "i-022c9bcdeeb3381b2 (instance1)".

```
=          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/nvme0n1
/dev/nvme0n1: 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/nvme0n1 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 Chrome

CloudShell Feedback

27° Search

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ENG IN 21:05 19-02-2024

A screenshot of an EC2 Instance Connect session. The terminal window shows a root shell on an Ubuntu instance (i-0c1596f041f15be85). The user types "good morning to all have a nice day". Below the terminal is a video player interface for a video titled "i-0c1596f041f15be85 (instance1)".

```
good morning to all
have a nice day
```

2,15 All

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ENG IN 20:56 19-02-2024

Media Player | eu-north-1 | EC2 Instance Connect | eu-north-1 | +

eu-north-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-022c9bcdeeb3381b2&osUser=ubuntu&r...

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/nvme0n1 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/nvme0n1 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 Chrome

CloudShell Feedback

27° Search

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21:09 19-02-2024

Volumes | EC2 | us-east-1 | EC2 Instance Connect | us-east-1 | +

https://us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0793456c258c9...

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/idx/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

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ENG IN 3:32 PM 2/18/2024

```

have a nice day
root@ip-172-31-45-145:~/cube/square# umount /dev/nvme0nl cube/square
umount: /root/cube/square: target is busy.
umount: cube/square: no mount point specified.
root@ip-172-31-45-145:~/cube/square# 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/lnxd/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 /
└─nvme0n1p4 259:2   0   4M  0 part
└─nvme0n1p5 259:3   0 106M 0 part /boot/efi
nvme0n1p1 259:4   0 15G  0 disk /root/cube/square
root@ip-172-31-45-145:~/cube/square# file -s dev/nvme0n1
dev/nvme0n1: cannot open 'dev/nvme0n1' (No such file or directory)
root@ip-172-31-45-145:~/cube/square# cd
root@ip-172-31-45-145:~#

```

i-022c9bcdeeb3381b2 (instance1)  
PublicIPs: 51.20.2.199 PrivateIPs: 172.31.45.145  
00:02:44 00:04:20

Play (Ctrl+P)

EC2 Instance Connect | eu-north-1 - Google Chrome

CloudShell Feedback

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27° Search 21:11 19-02-2024

- Now go to Volumes and detach the volume to instance

Successfully detached volume.

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
-	vol-0a264f7dc7995f594	gp3	15 GiB	3000	128	-
-	vol-0fde8a3c4122dd4f2	gp2	8 GiB	100	-	snap-012f83d...
-	vol-07522308a1e6deec2	gp3	20 GiB	3000	125	-
-	vol-0ad1b137e7c95d21d	gp2	8 GiB	100	-	snap-012f83d...
-	vol-0d6cf4689e99dd08f	gp3	20 GiB	3000	125	-

Summary for all volumes in this Region

CloudShell Feedback

26° Search 21:36 19-02-2024

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

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with options like EC2 Dashboard, EC2 Global View, Events, Instances (selected), Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and New. The main area displays 10 instances in a table:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
prasanna	i-0093135ecd272c780	Stopped	t3.micro	-	<a href="#">View alarms +</a>
sharon	i-0d2ab1dc6d4249c45	Stopped	t3.micro	-	<a href="#">View alarms +</a>
task1	i-0b2460ba376d67dab	Stopped	t3.micro	-	<a href="#">View alarms +</a>
task	i-040af0d050e504fb	Stopped	t3.micro	-	<a href="#">View alarms +</a>
task3	i-071c195cec8128fae	Stopped	t3.micro	-	<a href="#">View alarms +</a>
task4	i-0dcc91562aa464e17	Stopped	t3.micro	-	<a href="#">View alarms +</a>
task5	i-02875a8e686d04c4a	Stopped	t3.micro	-	<a href="#">View alarms +</a>
sharon2	i-02a5555b2463abdcf	Stopped	t3.micro	-	<a href="#">View alarms +</a>
sharon	i-038723194e6fb4f42	Stopped	t3.micro	-	<a href="#">View alarms +</a>

At the top right, there are buttons for Connect, Instance state, Actions, and Launch instances. A tooltip 'Play (Ctrl+P)' points to the play button in the media player at the bottom.

The screenshot shows the AWS EC2 Launch Instances page. At the top, it says 'Successfully initiated launch of instance (i-0fd5d004b60f07816)'. Below that, there's a 'Next Steps' section with a search bar and a navigation bar with pages 1 through 6. There are four main cards:

- Create billing and free tier usage alerts**: To manage costs and avoid surprise bills, set up email.
- Connect to your instance**: Once your instance is running, log into it from your local computer.
- Connect an RDS database**: Configure the connection between an EC2 instance and a database to allow traffic flow between them.
- Create EBS snapshot policy**: Create a policy that automates the creation, retention, and deletion of EBS snapshots.

At the bottom, there's a media player with a play button and a tooltip 'Play (Ctrl+P)'. The taskbar at the very bottom shows various application icons and the date/time as 19-02-2024 21:41.

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

EC2 > Instances > i-0fd5d004b60f07816

**Instance summary for i-0fd5d004b60f07816 (instance2)**

Instance ID	i-0fd5d004b60f07816 (instance2)	Public IPv4 address	13.60.42.131 [open address]
IPv6 address	-	Instance state	Running
Hostname type	IP name: ip-172-31-36-55.eu-north-1.compute.internal	Private IP DNS name (IPv4 only)	ip-172-31-36-55.eu-north-1.compute.internal
Answer private resource DNS name	IPv4 (A)	Instance type	t3.micro
Auto-assigned IP address		VPC	AWS Compute Optimizer finding
13.60.42.131 [Public IP]		Play (Ctrl+P)	Opt-in to AWS Compute Optimizer for recommendations.

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

EC2 > Instances > i-0e29b950dfbfad72

**Instance details**

Launch Templates	IPv6 address	Instance state	Running
Spot Requests	-	Private IP DNS name (IPv4 only)	ip-172-31-80-22.ec2.internal
Savings Plans	Hostname type	Instance type	t2.micro
Reserved Instances	IP name: ip-172-31-80-22.ec2.internal	VPC ID	vpc-02f90d8c24b4d4632 [open address]
Dedicated Hosts	Answer private resource DNS name	Subnet ID	subnet-00c76679479f7b1c9 [open address]
Capacity Reservations	IPv4 (A)	IAM Role	-
Images	Auto-assigned IP address	IMDSv2	Required
AMIs	184.73.144.123 [Public IP]	AWS Compute Optimizer finding	
AMI Catalog		Opt-in to AWS Compute Optimizer for recommendations.	
Elastic Block Store	Volumes	Learn more [open link]	
Volumes	Snapshots	Auto Scaling Group name	
Snapshots	Lifecycle Manager	-	
Lifecycle Manager		Activate Windows	
Network & Security	Security Groups	Go to Settings to activate Windows.	
Security Groups	Elastic IPs		
Elastic IPs	Placement Groups		
Placement Groups	Key Pairs		

Media Player eu-north-1 | EC2 Instance Connect | eu-north-1 | EC2 Instance Connect | eu-north-1 | +

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**

IOPS	Throughput	Snapshot	Created	Availability Zone
3000	125	-	2024/02/18 10:43 GMT+5:30	eu-north-1b
100	-	snap-012f83d...	2024/02/18 10:41 GMT+5:30	eu-north-1b
100	-	snap-012f83d...	2024/02/18 10:55 GMT+5:30	eu-north-1b

**Actions**

- 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

Network Interfaces 00:34:58 00:02:06

Load Balancing Volume ID: vol-0101c87a0d30b7aef Play (Ctrl+P)

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The screenshot shows the AWS Lambda console with a success message: "Deployment successful! Function ARN: arn:aws:lambda:eu-north-1:123456789012:function:HelloWorld". It includes tabs for 'Overview', 'Code', 'Logs', and 'Metrics'. The Lambda function configuration is visible, including the runtime (Node.js 18), memory (128 MB), and timeout (3 seconds). The function code is displayed in a code editor, and the deployment logs show the successful execution of the function.

Media Player EC2 | eu-north-1 | EC2 Instance Connect | eu-north-1 | EC2 Instance Connect | eu-north-1 | +

eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#AttachVolume:volumId=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](#)

Device name: [Info](#)

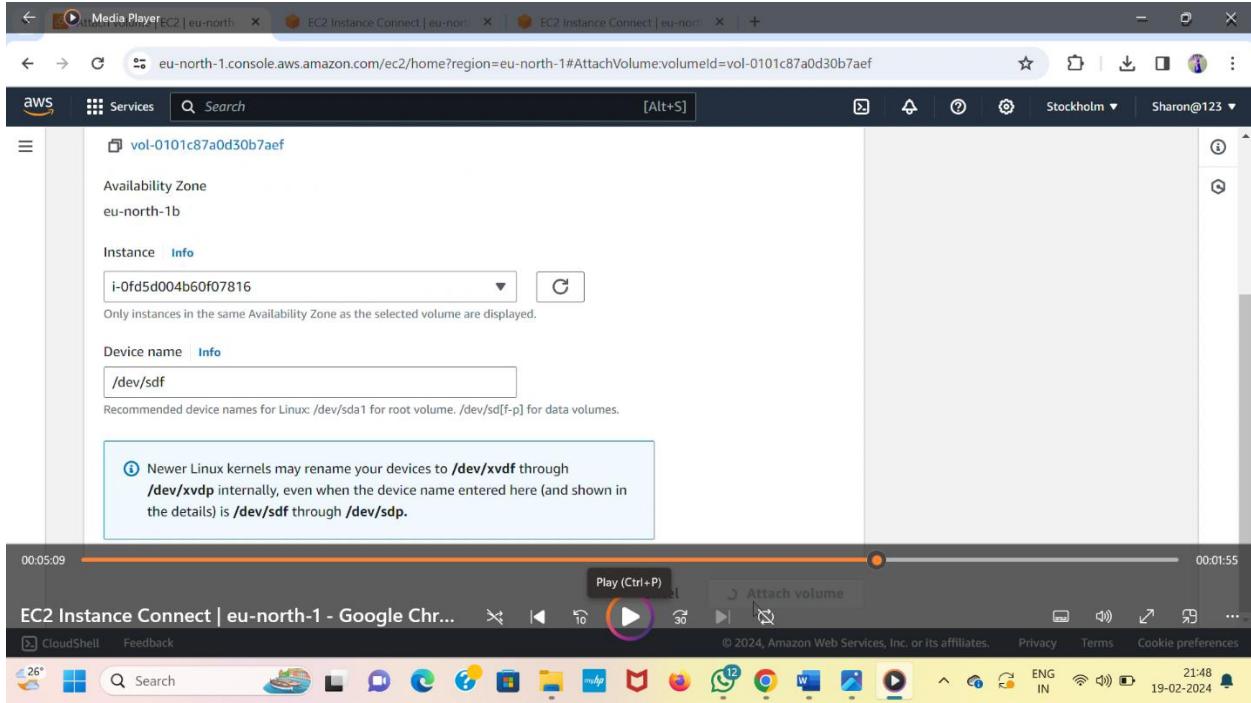
Only instances in the same Availability Zone as the selected volume are displayed.

00:05:01 00:02:03

Device name: [Info](#)

EC2 Instance Connect | eu-north-1 - Google Chrome... CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 21:46 19-02-2024

The screenshot shows the AWS Lambda console with a success message: "Deployment successful! Function ARN: arn:aws:lambda:eu-north-1:123456789012:function:HelloWorld". It includes tabs for 'Overview', 'Code', 'Logs', and 'Metrics'. The Lambda function configuration is visible, including the runtime (Node.js 18), memory (128 MB), and timeout (3 seconds). The function code is displayed in a code editor, and the deployment logs show the successful execution of the function.



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**

```
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-36-55:~$ sudo -i
root@ip-172-31-36-55:~# 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/1xd/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 /
└─nvme0n1p4 259:2:0    4M   0 part /
└─nvme0n1p5 259:3:0   106M  0 part /boot/efi
nvme1n1    259:4:0   15G  0 disk
root@ip-172-31-36-55:~# file -s fde
i-0fd5d004b60f07816 (instance2)

Public IPs: 13.60.42.131 Private IPs: 172.31.36.55
```

A screenshot of a Windows desktop environment. At the top, there is a taskbar with several pinned icons: CloudShell, Feedback, Search, File Explorer, Task View, Edge browser, File History, Task Scheduler, Task Manager, and File Explorer. To the right of the taskbar, system status icons show battery level (21:49), network connection (ENG IN), and a date/time stamp (19-02-2024).  
The main window is titled "EC2 Instance Connect | eu-north-1 - Google Chrome". It displays a terminal session on an AWS Lambda instance. The terminal output shows the following commands and responses:

```
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:~/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#
```

Below the terminal window, a "Media Player" window is open, showing a video player interface with a play/pause button, volume controls, and a progress bar indicating the video has played 00:06:56 of a total duration of 00:00:08. The video content shows a terminal session on an AWS Lambda instance.

\*\*\*\*\* END \*\*\*\*\*