



ASSIGNMENT – 1

COURSE : DEVOPS

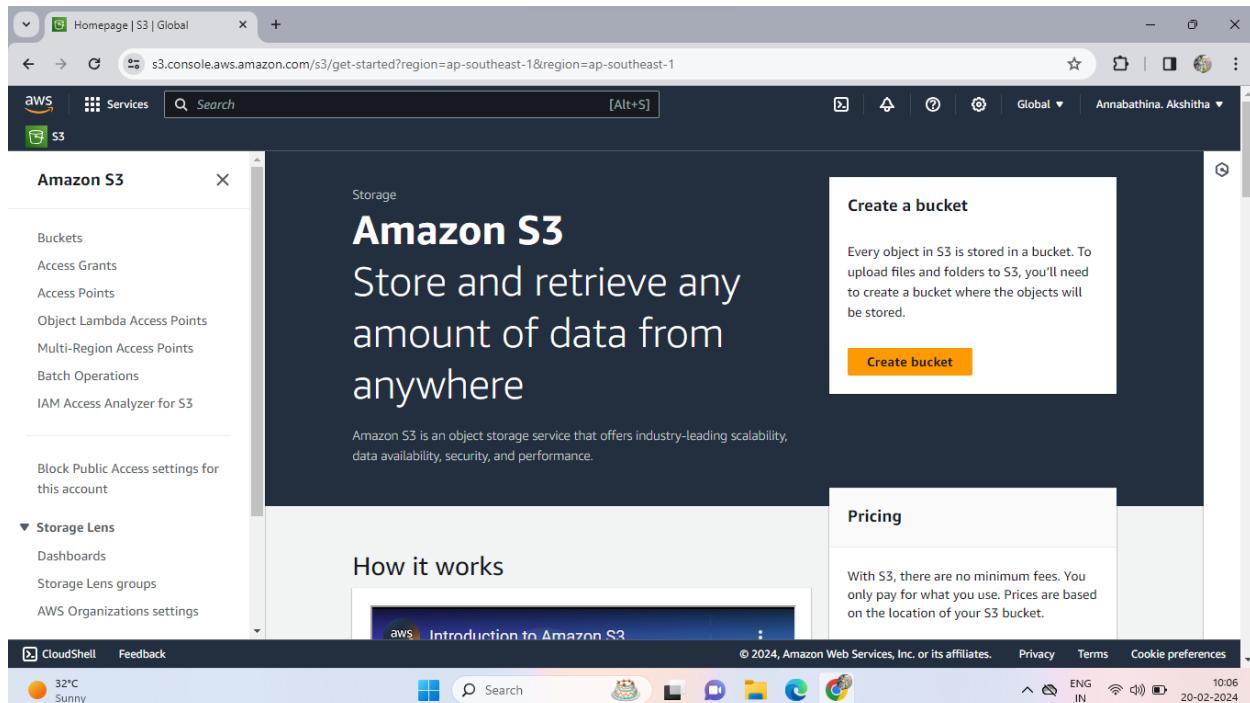
Trainer : Mr . MADHUKAR

NAME: A AKSHITHA

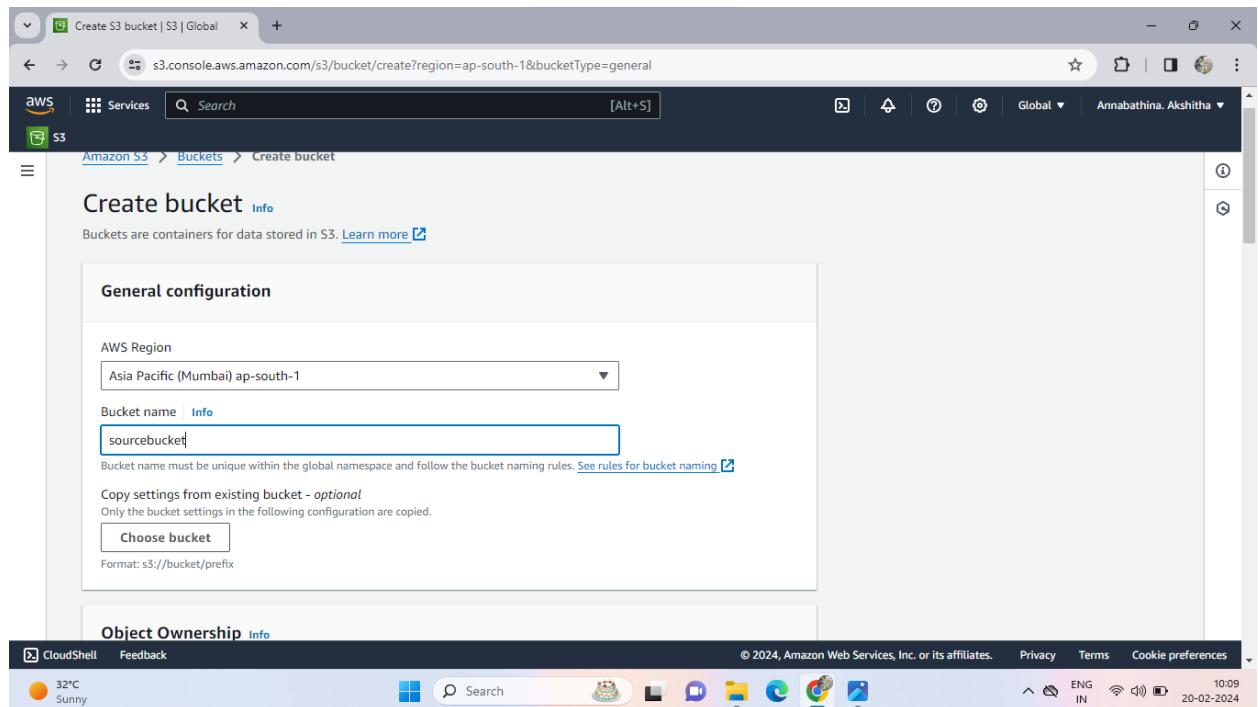
Mail id : annabathinaakshitha13@gmail.com

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

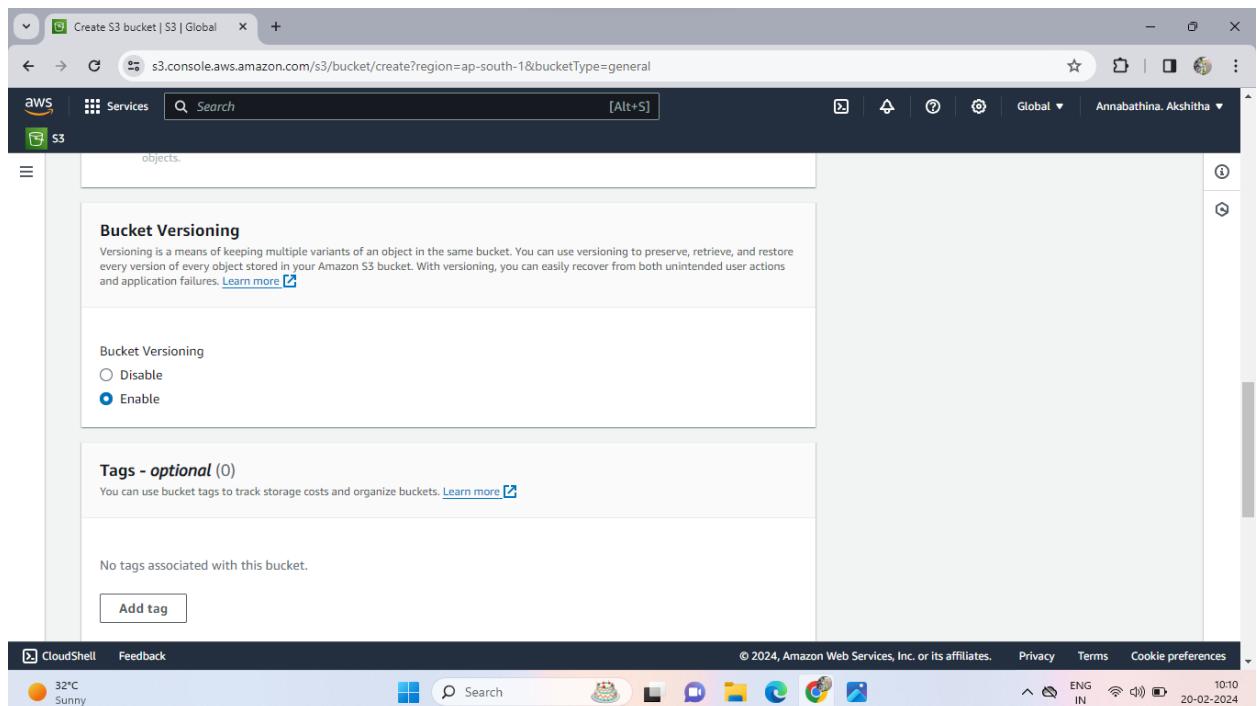
- Go to Amazon S3 , Click on Create Bucket



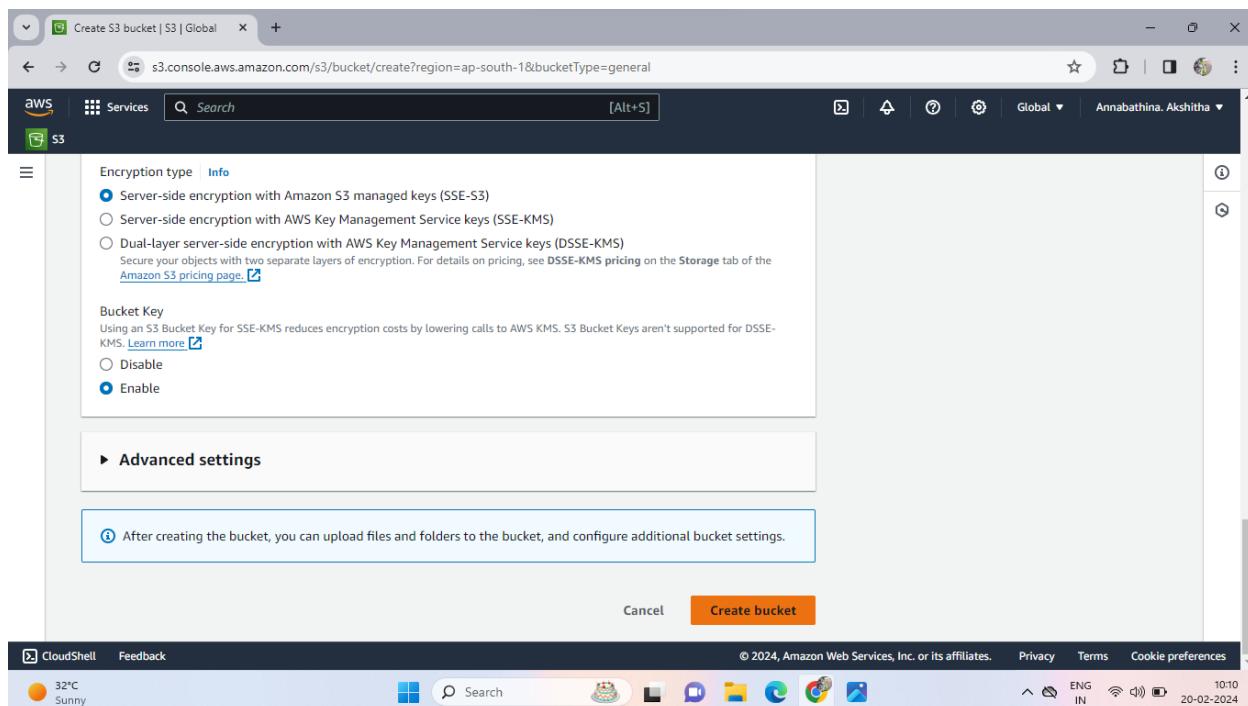
- Enter Bucket Name and Select Any one Region



- Enable Bucket Version



- After that Click on Create Bucket



- One more bucket created in different region.

The screenshot shows the 'Create S3 bucket' page in the AWS Management Console. The 'General configuration' section is selected. Under 'Bucket type', 'General purpose' is selected. The 'Bucket name' field contains 'mydestinationbucket3'. Below it, there's a note about unique naming and a link to 'See rules for bucket naming'. A 'Copy settings from existing bucket - optional' section is present, with a 'Choose bucket' button and a placeholder 'Format: s3://bucket/prefix'. The 'Object Ownership' section is also visible. At the bottom, there are 'CloudShell' and 'Feedback' buttons, along with standard browser navigation and search bars.

- After that Click on Create Bucket

The screenshot shows the 'Create S3 bucket' page with 'Advanced settings' expanded. Under 'Encryption type', 'Server-side encryption with Amazon S3 managed keys (SSE-S3)' is selected. There are also options for 'AWS Key Management Service keys (SSE-KMS)' and 'Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)'. A note about DSSE-KMS pricing is shown. Under 'Bucket Key', it says 'Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS.' with a 'Learn more' link. The 'Enable' option is selected. A note at the bottom states: 'After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.' At the bottom right are 'Cancel' and 'Create bucket' buttons. The interface includes CloudShell, Feedback, and standard browser controls.

- Now see the 2 Buckets in different region

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with tabs for 'Services' and 'S3'. A search bar is present, along with global settings and user information ('Annabathina.Akshitha'). Below the navigation is a section titled 'Account snapshot' with a link to 'View Storage Lens dashboard'. The main area is divided into two tabs: 'General purpose buckets' (selected) and 'Directory buckets'. Under 'General purpose buckets', there's a table listing two buckets:

Name	AWS Region	Access	Creation date
mysourcebucket3	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	February 20, 2024, 10:11:38 (UTC+05:30)
mydestinationbucket3	US East (N. Virginia) us-east-1	Bucket and objects not public	February 20, 2024, 10:20:08 (UTC+05:30)

At the bottom of the page, there are links for 'CloudShell', 'Feedback', and various system status indicators like weather and time.

- Now go to first bucket and click on upload

The screenshot shows the AWS S3 console for the 'mysourcebucket3' bucket. The top navigation bar includes 'Services' and 'S3' tabs, a search bar, and user information. The main content area is titled 'mysourcebucket3' with a 'Info' link. Below this is a navigation bar with tabs: 'Objects' (selected), 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Objects' tab shows a table with one row: 'No objects'. A note below states 'You don't have any objects in this bucket.' At the bottom of the page, there are links for 'CloudShell', 'Feedback', and system status indicators.

- Then Add Files and Add Folders then upload

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](#)

Drag and drop files and folders you want to upload here, or choose [Add files](#) or [Add folder](#).

Files and folders (3 Total, 25.6 KB)		
	Name	Folder
<input type="checkbox"/>	cancer.csv	Breast-cancer-diagnosis-using-Mac...
<input type="checkbox"/>	code.py	Breast-cancer-diagnosis-using-Mac...
<input type="checkbox"/>	README.md	Breast-cancer-diagnosis-using-Mac...

Remove Add files Add folder

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- Click on Upload

All files and folders in this table will be uploaded.

Destination		
	Name	Folder
	s3://mysourcebucket3	

Destination details Bucket settings that impact new objects stored in the specified destination.

Permissions Grant public access and access to other AWS accounts.

Properties Specify storage class, encryption settings, tags, and more.

Cancel Upload

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- Uploading Files and Folders

The screenshot shows the AWS S3 console interface. At the top, a green success message box displays "Upload succeeded" and "View details below." Below this, a summary table shows the destination as "s3://mysourcebucket3", with "Succeeded" status for 3 files (25.6 KB, 100.00%) and "Failed" status for 0 files (0 B, 0%). A "Files and folders" tab is selected, showing a list of three objects: "cancer.csv", "code.py", and "README.md", all of which have a "Succeeded" status. The total size listed is 25.6 KB. The bottom of the screen shows the standard Windows taskbar with various icons.

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

The screenshot shows the AWS S3 console for the "mysourcebucket3" bucket. The "Objects" tab is selected, displaying three items: a PDF file named "2400708238836778.pdf" and two folder entries: "akshitha documents/" and "Breast-cancer-diagnosis-using-Machine-Learning-master/". The PDF file was last modified on February 20, 2024, at 10:23:50 (UTC+05:30) and has a size of 326.6 KB. The storage class is set to Standard. The bottom of the screen shows the standard Windows taskbar with various icons.

- In Management Console click on create Replication Rule

Replication rules (0)

No replication rules

You don't have any rules in the replication configuration.

Create replication rule

- Enter Replication rule name

Create replication rule [Info](#)

Replication rule configuration

Replication rule name
Enter rule ID

Status
Choose whether the rule will be enabled or disabled when created.
 Enabled
 Disabled

Priority
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.
0

- Click on Apply to all objects in he bucket

Create replication rule - S3 bucket

s3.console.aws.amazon.com/s3/management/mysourcebucket3/replication/create?region=ap-south-1&bucketType=general

Source bucket

Source bucket name
mysourcebucket3

Source Region
Asia Pacific (Mumbai) ap-south-1

Choose a rule scope

Limit the scope of this rule using one or more filters

Apply to all objects in the bucket

Filter type

You can filter objects by prefix, object tags, or a combination of both.

Prefix

Add a filter to limit the scope of this rule to a single prefix.

Enter prefix

Don't include the bucket name in the prefix. Using certain characters in key names can cause problems with some applications and protocols.

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

Create replication rule - S3 bucket

s3.console.aws.amazon.com/s3/management/mysourcebucket3/replication/create?region=ap-south-1&bucketType=general

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

Bucket name

Choose the bucket that will receive replicated objects.

Enter bucket name

Browse S3

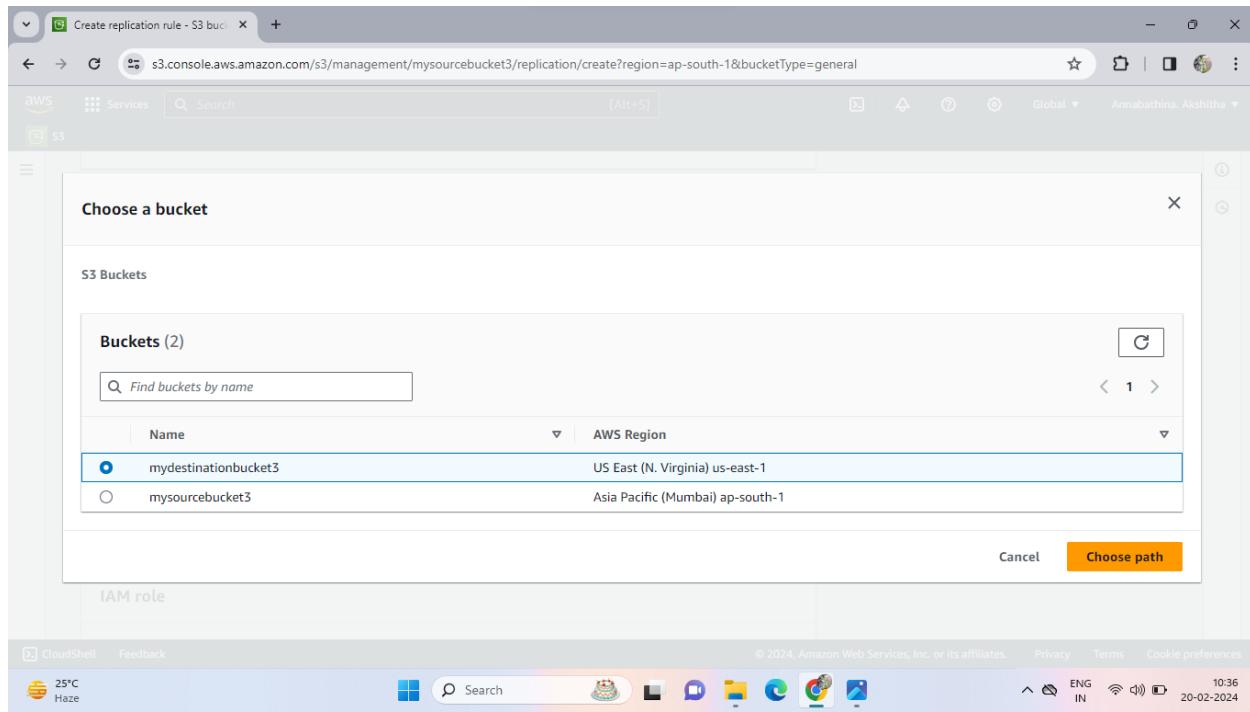
Destination Region

IAM role

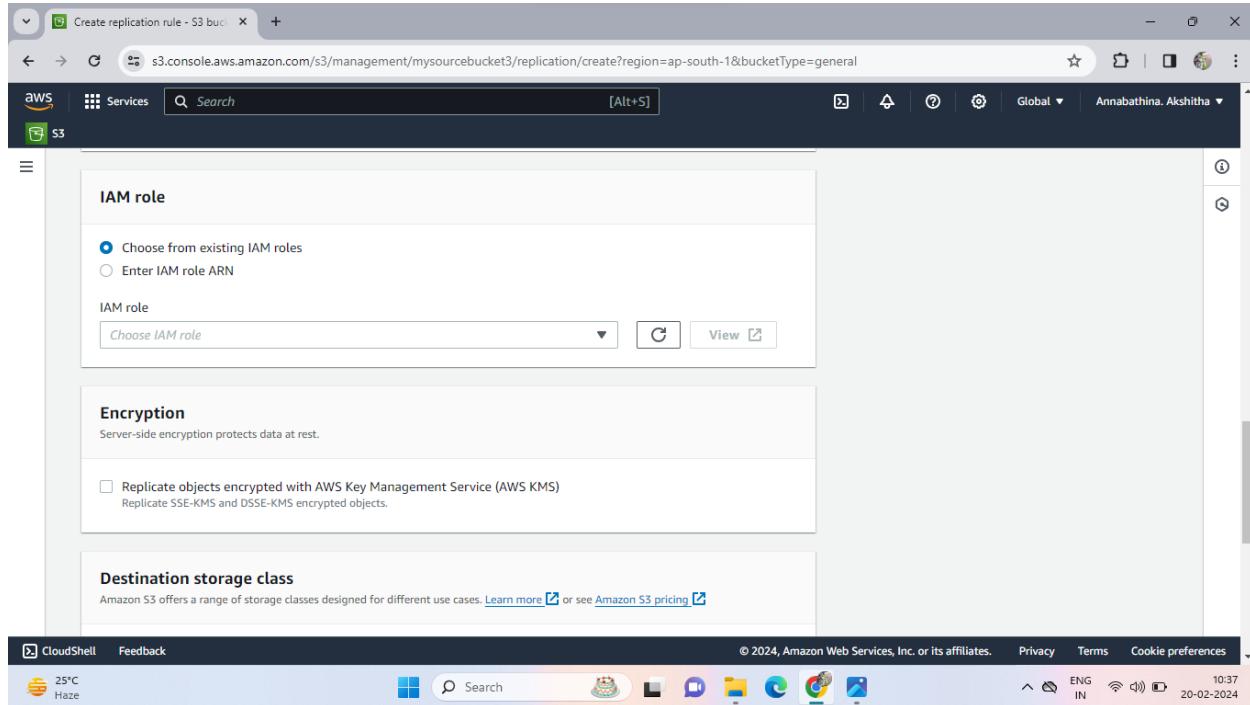
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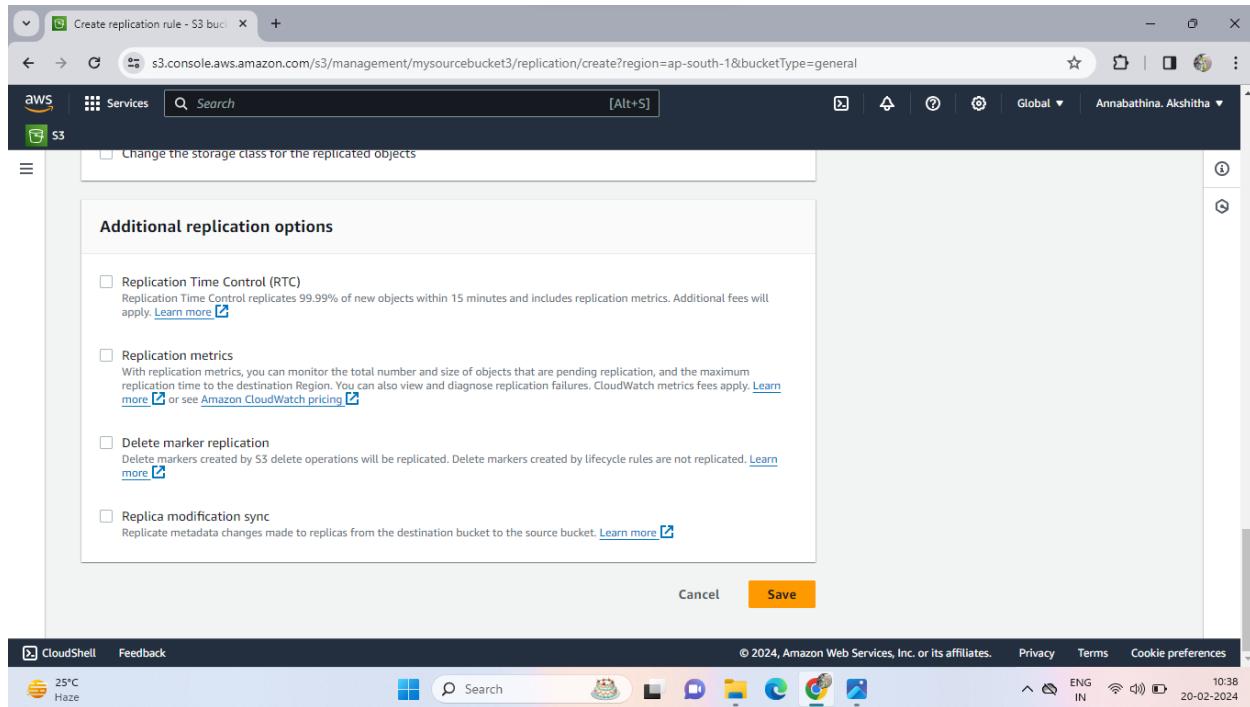
- Select another region Bucket (or) Where ever you want to see the data that bucket select and click on choose path



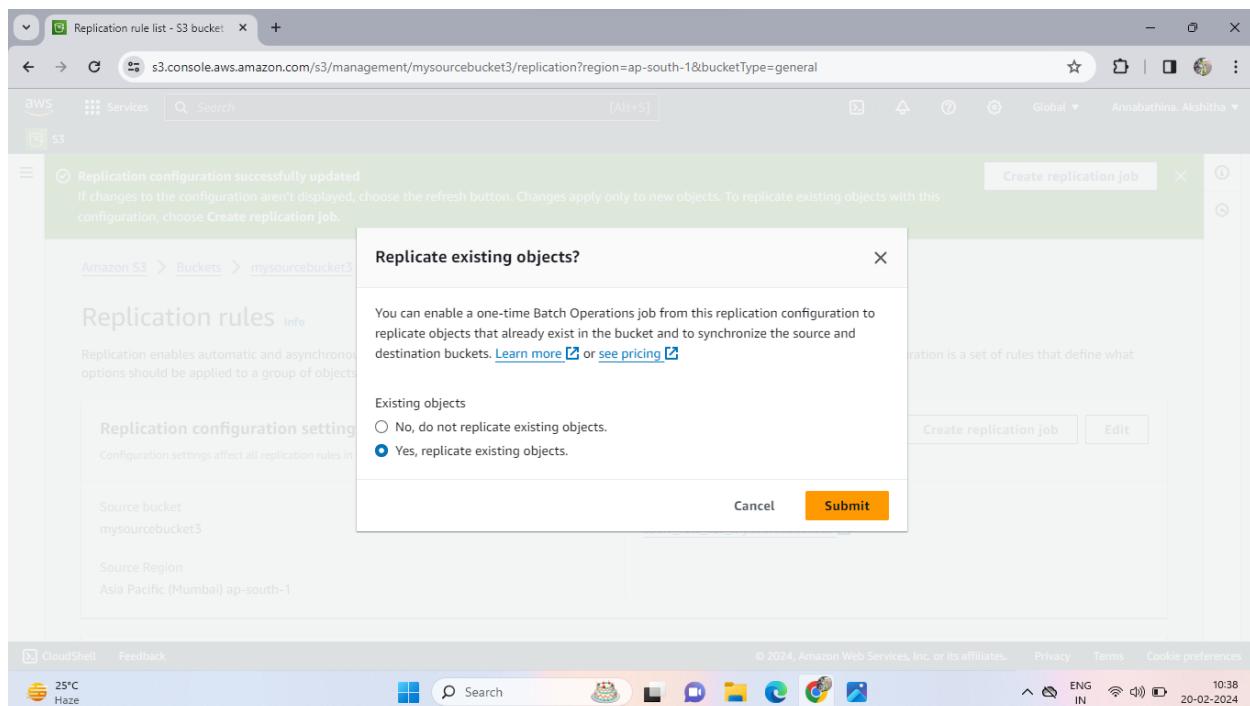
- Now choose from existing IAM roles
- Select Drop down Create a new role



- 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

The screenshot shows the AWS S3 management console for creating a replication job. The URL is <https://s3.console.aws.amazon.com/s3/management/mysourcebucket3/replication/create-job?region=ap-south-1&bucketType=general>. The 'Completion report' section is open, with the 'Generate completion report' checkbox checked. Under 'Completion report scope', 'All tasks' is selected. In the 'Completion report destination' section, a prefix 's3://bucket-name/prefix' is entered, and a 'View' button is shown. The permissions section notes the required IAM role and trust policy. The browser status bar at the bottom shows a temperature of 25°C and a date of 20-02-2024.

The screenshot shows a modal dialog titled 'Choose a completion report destination'. It lists 'S3 Buckets' with two entries: 'mydestinationbucket3' (selected) and 'mysourcebucket3'. A 'Choose path' button is visible at the bottom right. The browser status bar at the bottom shows a temperature of 25°C and a date of 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.

S3 Batch Operations jobs | S3 | + s3.console.aws.amazon.com/s3/jobs?region=ap-south-1

Services Search [Alt+S] Global Annabathina. Akshitha

Batch Operations

Successfully created job ID 158cf80b-3199-479d-bb38-6e4cd016b393

The time it takes to prepare a job is based on the size of the job's manifest and the time required to complete higher-priority jobs.

View details X

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 (5)

Job ID	Status	Description	Operation	Date created	Total objects	% Complete	Total failed (rate)	Priority
158cf80b-3199-479d-bb38-6e4cd016b393	New	2024-02-20 - Replicate	Replicate	February 20, 2024, 10:45:33 (UTC+05:30)	Not yet available	0%	0 (0%)	10

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S3 Batch Operations jobs | S3 | + s3.console.aws.amazon.com/s3/jobs?region=ap-south-1

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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 (6)

Job ID	Status	Description	Operation	Date created	Total objects	% Complete	Total failed (rate)	Priority
d89b4475-1cd4-4de5-97f3-c88fb141490	Active	2024-02-20 - Replicate	Replicate	February 20, 2024, 10:50:56 (UTC+05:30)	18	0%	0 (0%)	10

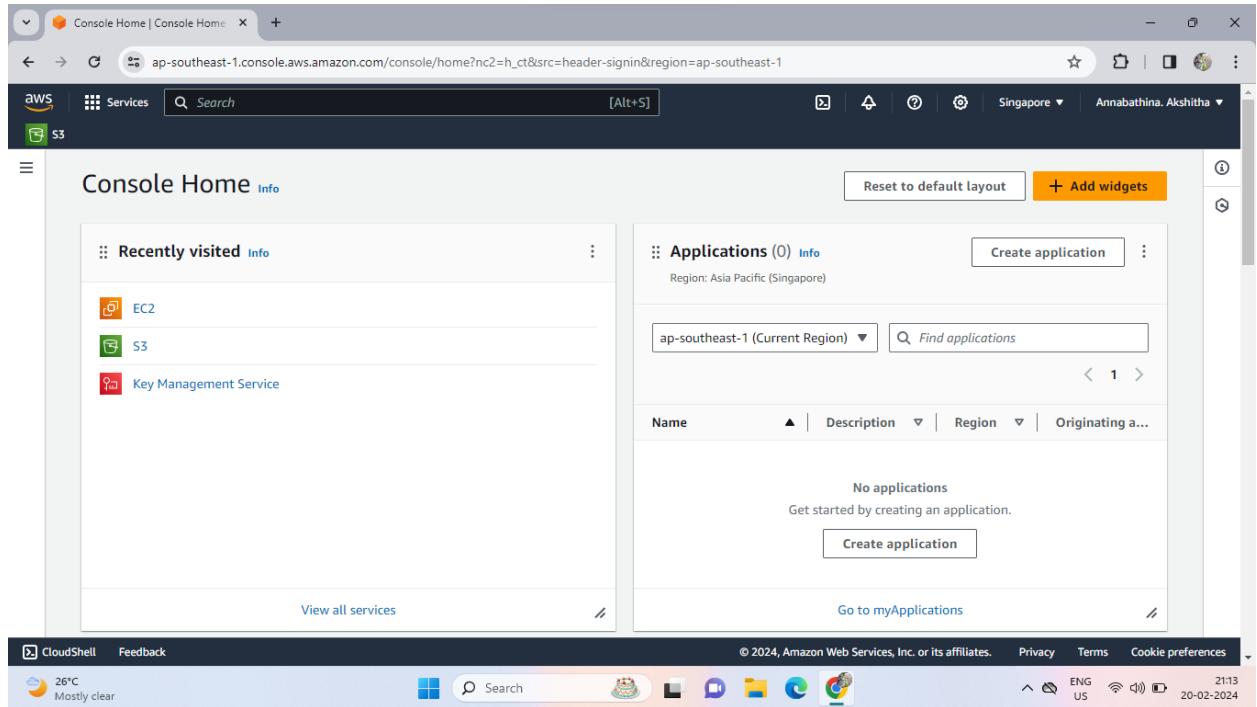
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- Whenever Batch Operation Active go to Destination Bucket and see the data.

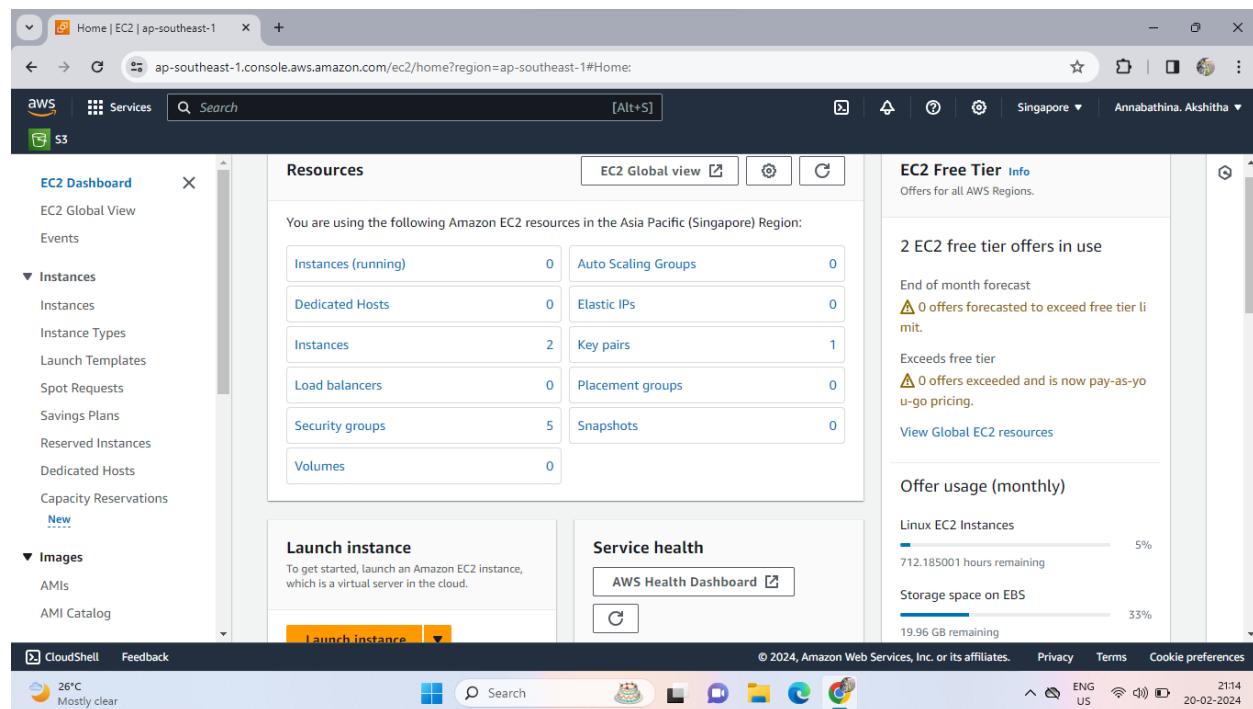
THANK YOU

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

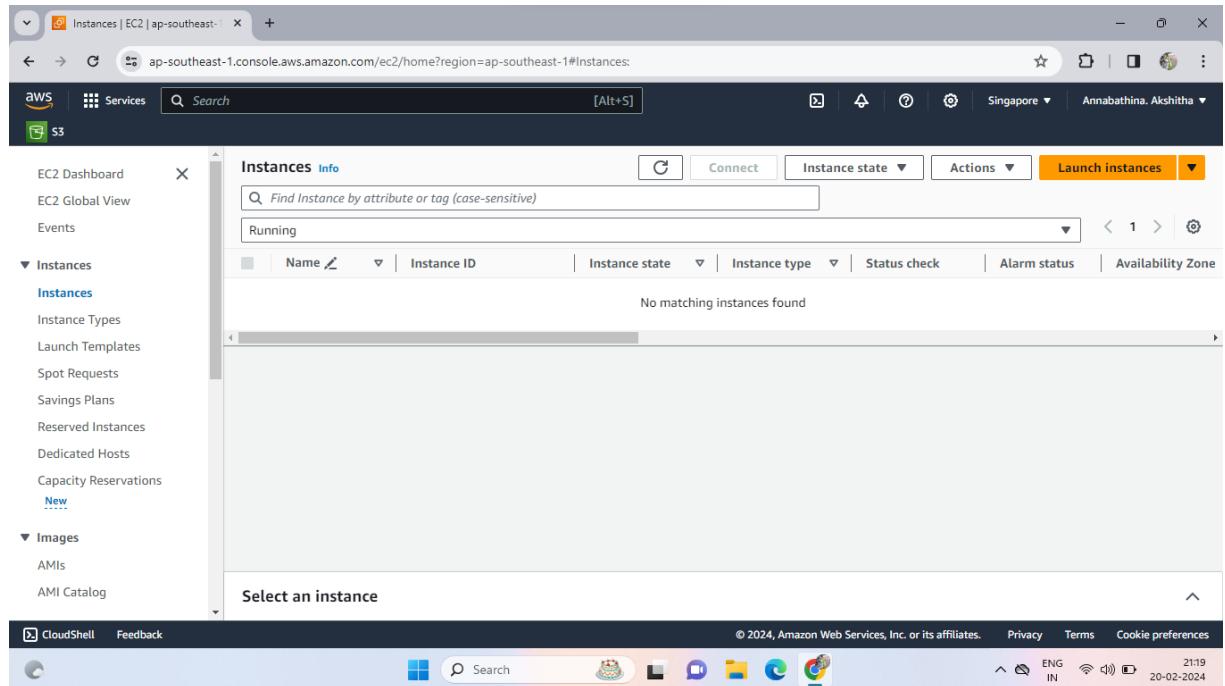
- Go to AWS Console Home and search EC2 and Click on EC2



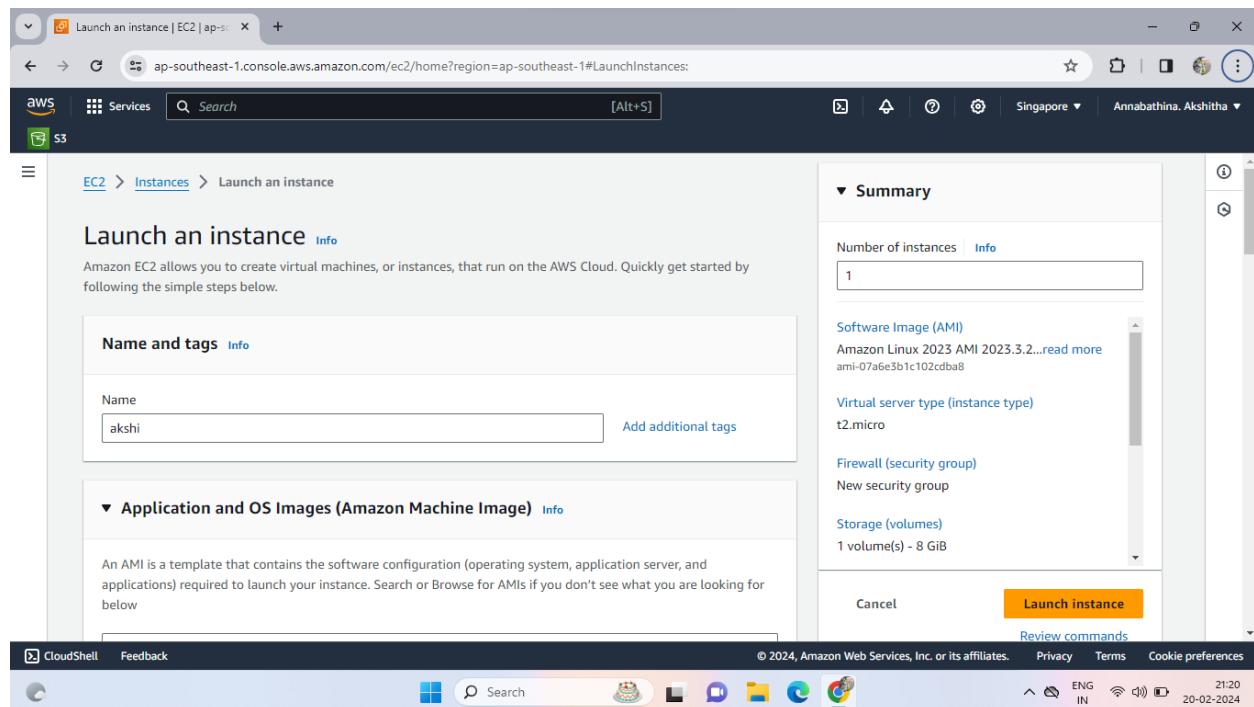
- Now we are in EC2 Dashboard
- Click on Instances



- Now Create One Server in any region
- Click on launch instances



- Enter Name and select operating system

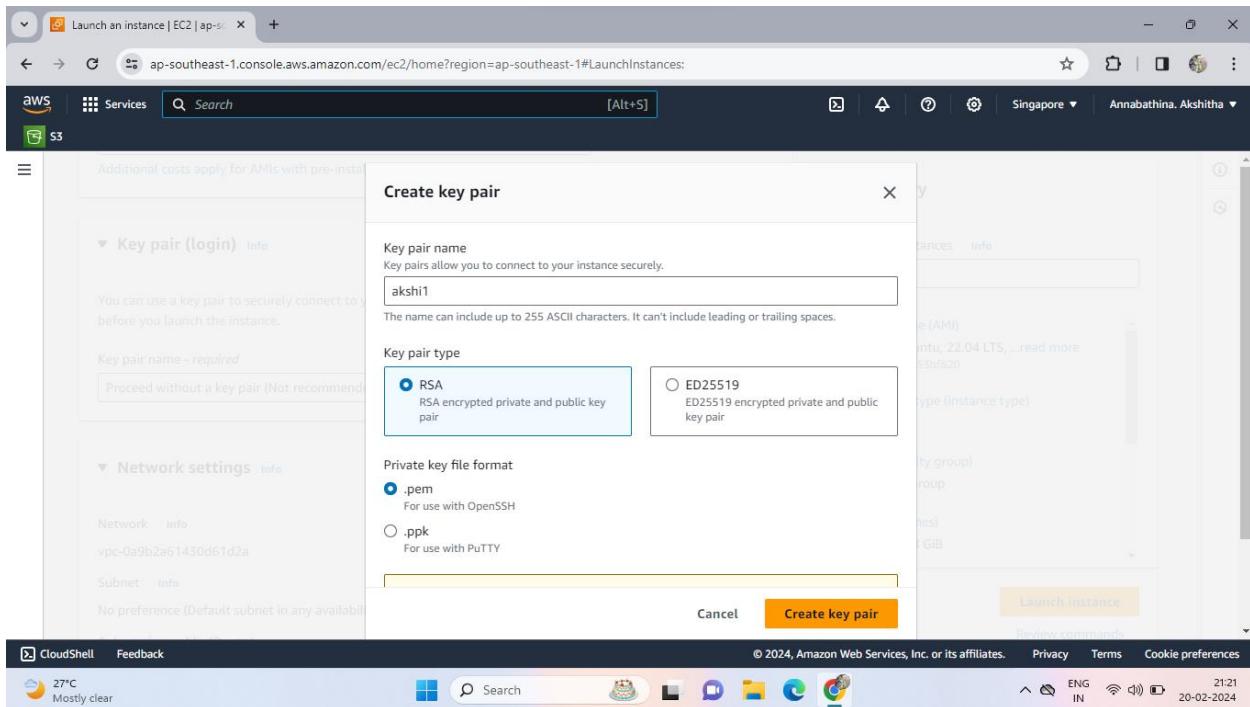


The screenshot shows the AWS Cloud Console interface for launching an EC2 instance. In the top navigation bar, the URL is `ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#LaunchInstances`. The search bar contains "Search". On the left sidebar, "Services" is selected. The main content area displays a "Quick Start" section with various AMI options: Amazon Linux, macOS, Ubuntu, Windows, Red Hat, and SUSE Linux. The "Ubuntu" option is highlighted with a blue border. Below this, a specific AMI is selected: "Ubuntu Server 22.04 LTS (HVM), SSD Volume Type". The details show it's "Free tier eligible" and includes the AMI ID `ami-0fa377108253bf620`. The "Description" field indicates it's a Canonical, Ubuntu, 22.04 LTS, amd64 jammy image build on 2023-12-07. The "Architecture" tab is selected. On the right side, the "Summary" panel shows the configuration: 1 instance, Software Image (AMI) set to Canonical, Ubuntu, 22.04 LTS, Virtual server type (instance type) set to t2.micro, and Storage (volumes) set to 1 volume(s) - 8 GiB. The "Launch instance" button is prominently displayed at the bottom right.

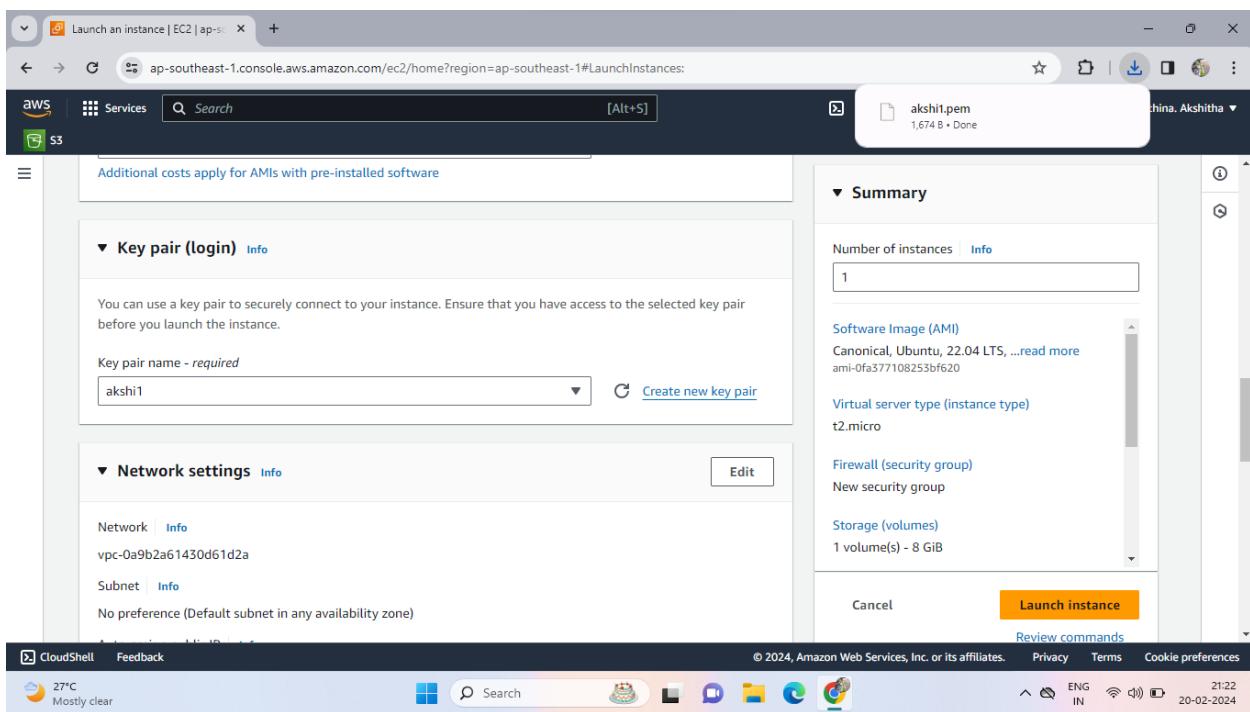
- Now Click a Create new key pair

This screenshot continues from the previous one, showing the "Key pair (login)" step of the instance launch process. The "Key pair name - required" field is filled with "akshi". A "Create new key pair" button is visible next to it. The "Network settings" section shows the selected network as "vpc-0a9b2a61430d61d2a" and the subnet as "No preference (Default subnet in any availability zone)". The rest of the configuration (Number of instances, Software Image, Virtual server type, Storage) remains the same as the previous screenshot. The "Launch instance" button is still present at the bottom.

- 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's a green success message: 'Successfully initiated launch of instance (i-04543f3a0610142ee)'. Below it, a 'Next Steps' section lists several options: 'Create billing and free tier usage alerts', 'Connect to your instance', 'Connect an RDS database', and 'Create EBS snapshot policy'. Each option has a brief description and a button to 'Connect' or 'Create'. The bottom of the page includes standard AWS navigation links like CloudShell, Feedback, and a footer with copyright information.

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

The screenshot shows the AWS EC2 'Instances' page. On the left, a sidebar menu is open under 'Instances', showing options like Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, and AMIs. The main area displays a table titled 'Instances (1) Info' with one row. The row details an instance named 'akshi' with Instance ID 'i-04543f3a0610142ee', which is currently 'Running'. Other columns include Instance state, Instance type (t2.micro), Status check (Initializing), and Availability Zone (ap-southeast-1b). There are buttons for 'Connect', 'Actions', and 'Launch instances'. A 'Select an instance' dropdown is also visible at the bottom.

Instance details | EC2 | ap-southeast-1

ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#InstanceDetails:instanceId=i-04543f3a0610142ee

aws Services Search [Alt+S]

Singapore Annabathina. Akshitha

EC2 Dashboard Instances Instances Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations New Images AMIs AMI Catalog

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EC2 > Instances > i-04543f3a0610142ee

Instance summary for i-04543f3a0610142ee (akshi) [Info](#)

Updated less than a minute ago

Instance ID	Public IPv4 address	Private IP4 addresses
i-04543f3a0610142ee (akshi)	18.138.255.149 open address	172.31.31.194
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-18-138-255-149.ap-southeast-1.compute.amazonaws.com open address
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-31-194.ap-southeast-1.compute.internal	ip-172-31-31-194.ap-southeast-1.compute.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
18.138.255.149 [Public IP]	vpc-0a9b2a61430d61d2a	

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Connect to instance | EC2 | ap-southeast-1

ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#ConnectToInstance:instanceId=i-04543f3a0610142ee

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ENG IN 21:27 20-02-2024

EC2 > Instances > i-04543f3a0610142ee > Connect to instance

Connect to instance [Info](#)

Connect to your instance i-04543f3a0610142ee (akshi) using any of these options

EC2 Instance Connect [Session Manager](#) [SSH client](#) [EC2 serial console](#)

Instance ID: [i-04543f3a0610142ee \(akshi\)](#)

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: [18.138.255.149](#)

Username: [ubuntu](#)

CloudShell Feedback

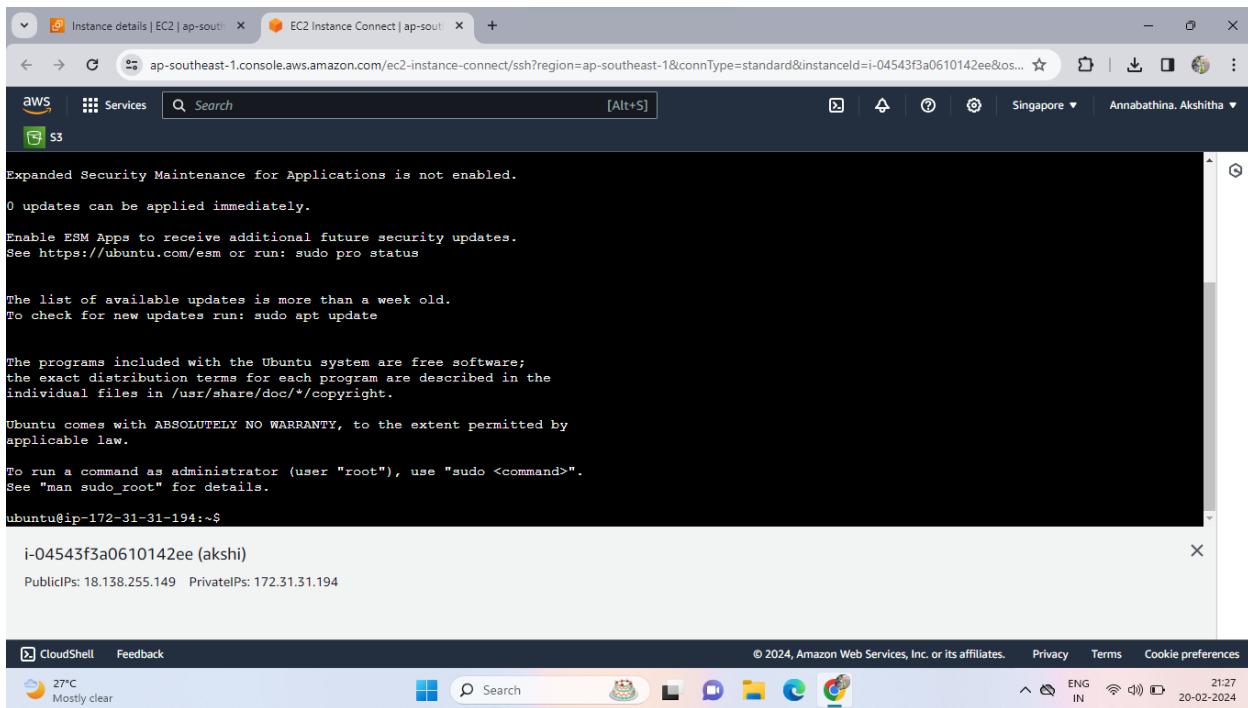
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ENG IN 21:27 20-02-2024

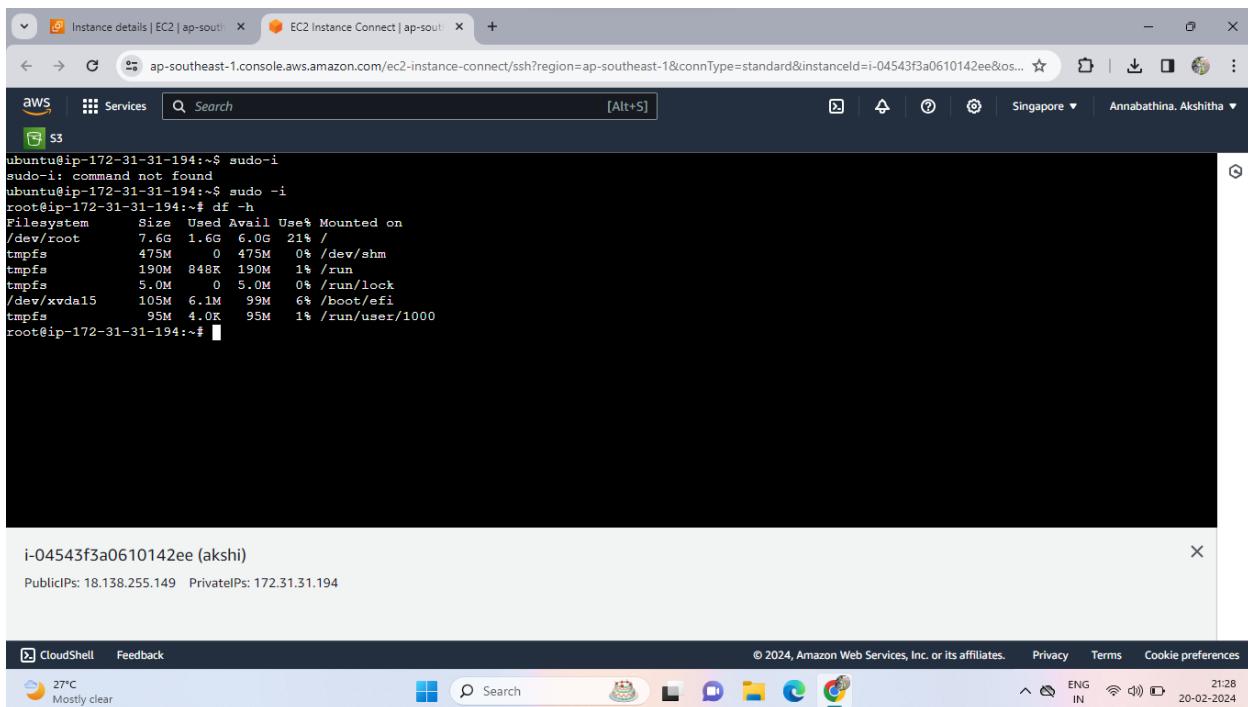
- Now Connected server



```
Instance details | EC2 | ap-soutl | EC2 Instance Connect | ap-soutl | +  
ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-southeast-1&connType=standard&instanceId=i-04543f3a0610142ee&os... ☆  
AWS Services Search [Alt+S] Singapore Annabathina.Akshitha  
G3  
Expanded Security Maintenance for Applications is not enabled.  
0 updates can be applied immediately.  
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-172-31-31-194:~$  
i-04543f3a0610142ee (akshi)  
PublicIPs: 18.138.255.149 PrivateIPs: 172.31.31.194
```

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- df -h this command check user size



```
Instance details | EC2 | ap-soutl | EC2 Instance Connect | ap-soutl | +  
ap-southeast-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-southeast-1&connType=standard&instanceId=i-04543f3a0610142ee&os... ☆  
AWS Services Search [Alt+S] Singapore Annabathina.Akshitha  
G3  
ubuntu@ip-172-31-31-194:~$ sudo -i  
sudo-i: command not found  
ubuntu@ip-172-31-31-194:~$ sudo -i  
root@ip-172-31-31-194:~# 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-172-31-31-194:~#  
i-04543f3a0610142ee (akshi)  
PublicIPs: 18.138.255.149 PrivateIPs: 172.31.31.194
```

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- Now go to ebs then volumes

The screenshot shows the AWS EC2 Instance Details page. The instance is running and has a public IPv4 DNS name: ec2-18-138-255-149.ap-southeast-1.compute.amazonaws.com. It is associated with a VPC ID: vpc-0a9b2a61430d61d2a. The instance type is t2.micro. The public IP address is 18.138.255.149 [Public IP]. The subnet ID is subnet-04b0e7d88fa52f84b.

Details	Status and alarms	Monitoring	Security	Networking	Storage	Tags
Instance details						

- Click on Create

Volume

The screenshot shows the AWS Volumes page. A single volume is listed with the following details:

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
-	vol-01b4a144f9ee8b8bf	gp2	8 GiB	100	-	snap-0337e5d...	2024/02/20

Create volume

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

The screenshot shows the AWS CloudShell interface with two windows open:

- Top Window:** "Create volume | EC2 | ap-southeast-1". This window displays the "Volume settings" configuration page. It includes fields for Volume type (set to General Purpose SSD (gp3)), Size (10 GiB), IOPS (3000), and Throughput (MiB/s). A note indicates that gp3 provides up to 20% lower cost per GB than gp2.
- Bottom Window:** "Create volume | EC2 | ap-southeast-1". This window displays the "Tags - optional" section, which notes that tags can be used for search and cost tracking. It also shows the "Snapshot summary" section, which includes a note about backup information and a refresh button.

Both windows are titled "Create volume | EC2 | ap-southeast-1" and are located at the URL ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#CreateVolume. The bottom window also shows the status bar with "CloudShell Feedback" and the date/time "20-02-2024".

- 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 CloudWatch Metrics interface. At the top, there's a search bar and a navigation menu. Below the search bar, there are tabs for 'Metrics' and 'Logs'. The main area displays a table of metrics with columns: Metric Name, Unit, Value, and Last Value. One row in the table is highlighted in yellow. The bottom of the screen shows the AWS navigation bar and the CloudWatch Metrics logo.

Metric Name	Unit	Value	Last Value
Function execution duration	ms	1234567890	1234567890
Function execution count	1	1	1
Function execution errors	1	1	1

Screenshot of the AWS EC2 Volumes console in the us-east-1 region.

The screenshot shows the "Volumes (1/2) Info" page. A success message at the top states: "Successfully attached volume vol-0132d1ab4bb25c030 to instance i-0793456c258c948b9." The main table lists one volume:

Screenshot of the AWS EC2 Attach volume console in the ap-southeast-1 region.

The screenshot shows the "Attach volume" dialog. The "Volume ID" field is populated with **vol-0f3672a4392e70048**. The "Instance" dropdown is set to **i-04543f3a0610142ee**. The "Device name" field is set to **/dev/sdf**.

A note in the dialog box states: "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."

At the bottom right of the dialog, there are "Cancel" and "Attach volume" buttons.

The browser status bar at the bottom shows: "CloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 3:24 PM 2/18/2024".

The screenshot shows the AWS Cloud Console with the URL ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#Volumes. The page displays a list of volumes with the following details:

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
-	vol-01b4a144f9ee8b8bf	gp2	8 GiB	100	-	snap-0337e5d
<input checked="" type="checkbox"/>	vol-0f3672a4392e70048	gp3	10 GiB	3000	125	-

A context menu is open on the selected volume (vol-0f3672a4392e70048), with the "Attach volume" option highlighted.

- Now Go to EC2 Connected server

- Enter Command for volume is attached or not
- Command is "lsblk"

```

ubuntu@ip-172-31-31-194:~$ sudo -i
sudo -i: command not found
ubuntu@ip-172-31-31-194:~$ sudo -i
root@ip-172-31-31-194:~# 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-172-31-31-194:~# 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/snappyd/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  10G  0 part /boot/efi
xvdf   202:80    0  10G  0 disk
root@ip-172-31-31-194:~#

```

i-04543f3a0610142ee (akshi)

Public IPs: 18.138.255.149 Private IPs: 172.31.31.194

- 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 akshi/durga
mount /dev/xvdf akshi/durga
cd akshi/durga
mkdir 123 241
vi file1
ls – see the list files and directories
cd
umount /dev/xvdf akshi/durga

Volumes | EC2 | ap-southeast-1 EC2 Instance Connect | ap-sout +

aws Services Search [Alt+S] Singapore Annabathina. Akshitha

S3

```
root@ip-172-31-26-54:~# file -s /dev/xvdf
/dev/xvdf: data
root@ip-172-31-26-54:~# mkfs -t xfs /dev/xvdf
meta-data=/dev/xvdf isize=512 agcount=4, agsize=655360 blks
          = sectsz=512 attr=2, projid32bit=1
          = crc=1 finobt=1, sparse=1, rmapbt=0
          = reflink=1 bigtime=0 inobtcount=0
data     = bsize=4096 blocks=2621440, imaxpct=25
          = sunit=0 swidth=0 blks
naming   =version 2 bsize=4096 ascii-ci=0, fttype=1
log      =internal log bsize=4096 blocks=2560, version=2
          = sectsz=512 sunit=0 blks, lazy-count=1
realtime =none extsz=4096 blocks=0, rtextents=0
root@ip-172-31-26-54:~# mkdir -p akshi/durga
root@ip-172-31-26-54:~# ls
akshi snap
root@ip-172-31-26-54:~# cd akshi
root@ip-172-31-26-54:~/akshi# cd akshi/durga
-bash: cd: akshi/durga: No such file or directory
root@ip-172-31-26-54:~/akshi# ls
durga
root@ip-172-31-26-54:~/akshi# cd durga
root@ip-172-31-26-54:~/akshi/durga# mkdir 123 214
root@ip-172-31-26-54:~/akshi/durga# vi file1
```

i-0a1200b1a89c615f1 (akshi)

PublicIPs: 54.169.134.131 PrivateIPs: 172.31.26.54



Volumes | EC2 | ap-southeast-1 EC2 Instance Connect | ap-sout +

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S3

```
hi good morning to all
how are you
iam learning devops from vcube
```

3, 31 All

i-0a1200b1a89c615f1 (akshi)

PublicIPs: 54.169.134.131 PrivateIPs: 172.31.26.54



```
root@ip-172-31-26-54:~# cd akshi
root@ip-172-31-26-54:~/akshi# cd akshi/durga
-bash: cd: akshi/durga: No such file or directory
root@ip-172-31-26-54:~/akshi# ls
durga
root@ip-172-31-26-54:~/akshi# cd durga
root@ip-172-31-26-54:~/akshi/durga# mkdir 123 214
root@ip-172-31-26-54:~/akshi/durga# vi file1
root@ip-172-31-26-54:~/akshi/durga# ls
123 214  file1
root@ip-172-31-26-54:~/akshi/durga# cd
root@ip-172-31-26-54:# lsblk
NAME   MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
loop0    7:0    0 24.9M  1 loop /snap/amazon-ssm-agent/7620
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   10G 0 disk
root@ip-172-31-26-54:#
```

i-0a1200b1a89c615f1 (akshi)

PublicIPs: 54.169.134.131 PrivateIPs: 172.31.26.54



```
root@ip-172-31-26-54:~# ls
durga
root@ip-172-31-26-54:~/akshi# cd durga
root@ip-172-31-26-54:~/akshi/durga# mkdir 123 214
root@ip-172-31-26-54:~/akshi/durga# vi file1
root@ip-172-31-26-54:~/akshi/durga# ls
123 214  file1
root@ip-172-31-26-54:~/akshi/durga# cd
root@ip-172-31-26-54:# 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   10G 0 disk
root@ip-172-31-26-54:# umount /dev/xvdf akshi/durga
umount: /dev/xvdf: not mounted.
umount: akshi/durga: not mounted.
root@ip-172-31-26-54:#
```

i-0a1200b1a89c615f1 (akshi)

PublicIPs: 54.169.134.131 PrivateIPs: 172.31.26.54



- Now go to Volumes and detach the volume to instance

Volumes (1/2) Info

Name	Volume ID	Type	Size	IOPS	Throughput
vol-09666a08ede3d83a5	gp2	8 GiB	100	-	125
vol-06a83b648d093df16	gp3	10 GiB	3000	125	

Volume ID: vol-06a83b648d093df16

Details | Status checks | Monitoring | Tags

Volume ID vol-06a83b648d093df16	Size 10 GiB	Type gp3	Volume status Okay
AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more	Volume state In-use	IOPS 3000	Throughput 125

Actions ▾ | **Create volume** | **Detach volume** | **Force detach volume** | **Manage auto-enabled I/O** | **Manage tags** | **Fault injection**

Successfully detached volume.

Volumes (2) Info

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Create
vol-09666a08ede3d83a5	gp2	8 GiB	100	-	125	snap-0337e5d...	2024
vol-06a83b648d093df16	gp3	10 GiB	3000	125			

Summary for all volumes in this Region

Snapshot summary

Recently backed up volumes / Total # volumes: 0 / 2

Last updated on Wed, Feb 21, 2024, 10:07:57 AM (GMT+05:30)

Data Lifecycle Manager default policy for EBS Snapshots status: No default policy set up | Create policy

Actions ▾ | **Create volume**

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

The screenshot shows the AWS EC2 Instances page in the Singapore region. The left sidebar navigation includes 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Instances' (selected), 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'Images' (AMIs, AMI Catalog), and 'CloudShell'.

The main content area displays the 'Resources' section with the following data:

	Value
Instances (running)	0
Auto Scaling Groups	0
Dedicated Hosts	0
Elastic IPs	0
Instances	0
Key pairs	2
Load balancers	0
Placement groups	0
Security groups	6
Snapshots	0
Volumes	1

Below this, there's a 'Launch instance' button and a 'Service health' section with the 'AWS Health Dashboard' link.

The bottom section shows the 'Instances (1) Info' table with the following data:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability
akshi	i-0a1200b1a89c615f1	Running	t2.micro	2/2 checks passed	View alarms	ap-southeast-1

A 'Select an instance' dropdown is visible at the bottom of the table.

The browser status bar shows the URL as <https://ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#Instances>, the date as 21-02-2024, and the time as 10:35.

- 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 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 content area displays a table of instances. The first row, 'user', is highlighted. The table columns include Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability. Below the table, a section titled 'Select an instance' is visible. At the bottom of the page, there's a CloudShell interface and a footer with copyright information and navigation links.

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

The screenshot shows the AWS EC2 Instance details page for instance `i-089b3585afc7b5283`. The left sidebar is identical to the previous screenshot. The main content area shows an 'Instance summary' for the selected instance. It includes fields for Instance ID, Public IPv4 address, Private IPv4 addresses, Instance state, Public IPv4 DNS, Private IP DNS, Hostname type, Answer private resource DNS name, Instance type, Auto-assigned IP address, VPC ID, and Elastic IP addresses. A note about AWS Compute Optimizer finding is also present. The bottom of the page features a CloudShell interface and a footer with copyright information and navigation links.

Volumes | EC2 | ap-southeast-1 | EC2 Instance Connect | ap-sout | EC2 Instance Connect | ap-sout | +

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

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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 Load Balancers Target Groups

CloudShell Feedback

Successfully detached volume.

Volumes (1/3) Info

Name	Volume ID	Type	Size	IOPS	Thro
-	vol-09666a08ede3d83a5	gp2	8 GiB	100	-
<input checked="" type="checkbox"/>	vol-06a83b648d093df16	gp3	10 GiB	3000	125
-	vol-04783fed978095f99	gp2	8 GiB	100	-

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

Volume ID: vol-06a83b648d093df16

Details Status checks Monitoring Tags

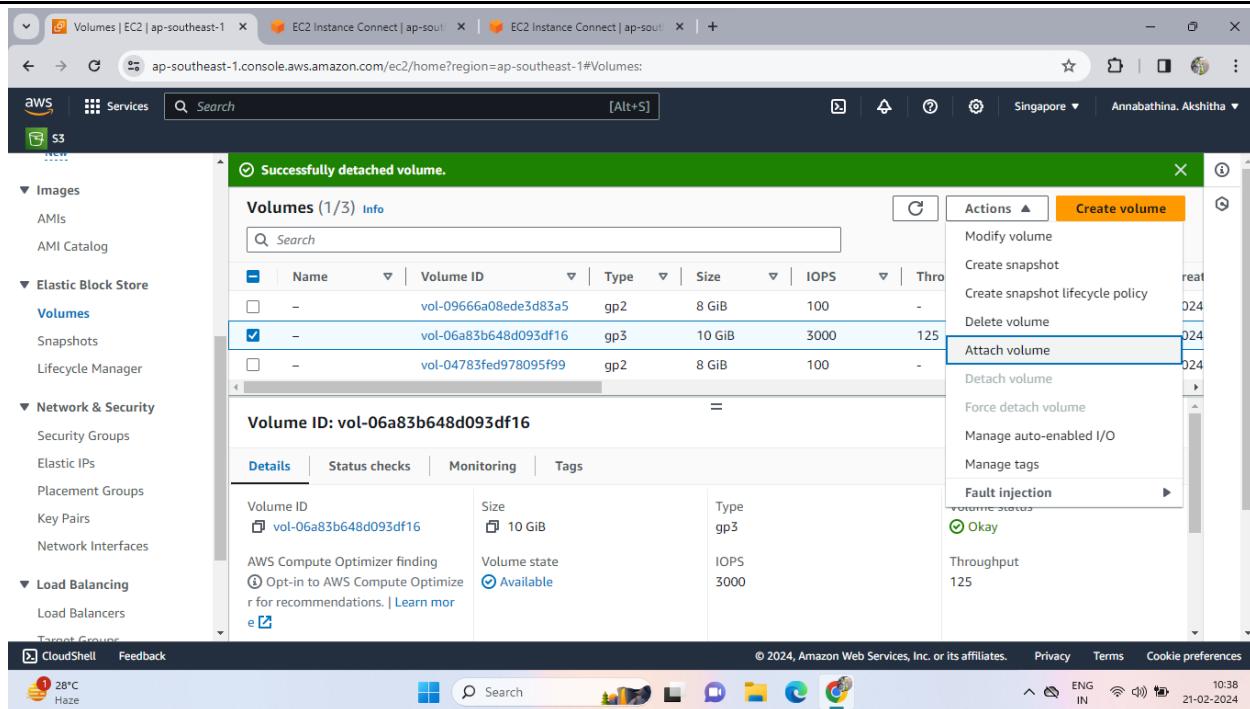
Volume ID vol-06a83b648d093df16	Size 10 GiB	Type gp3
AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more	Volume state Available	IOPS 3000
		Throughput 125

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CloudShell Feedback

28°C Haze

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Attach volume | EC2 | ap-southeast-1 | EC2 Instance Connect | ap-sout | EC2 Instance Connect | ap-sout | +

ap-southeast-1.console.aws.amazon.com/ec2/home?region=ap-southeast-1#AttachVolume:volumeid=vol-06a83b648d093df16

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EC2 > Volumes > vol-06a83b648d093df16 > 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-06a83b648d093df16

Availability Zone
ap-southeast-1b

Instance Info
i-089b3585afc7b5283

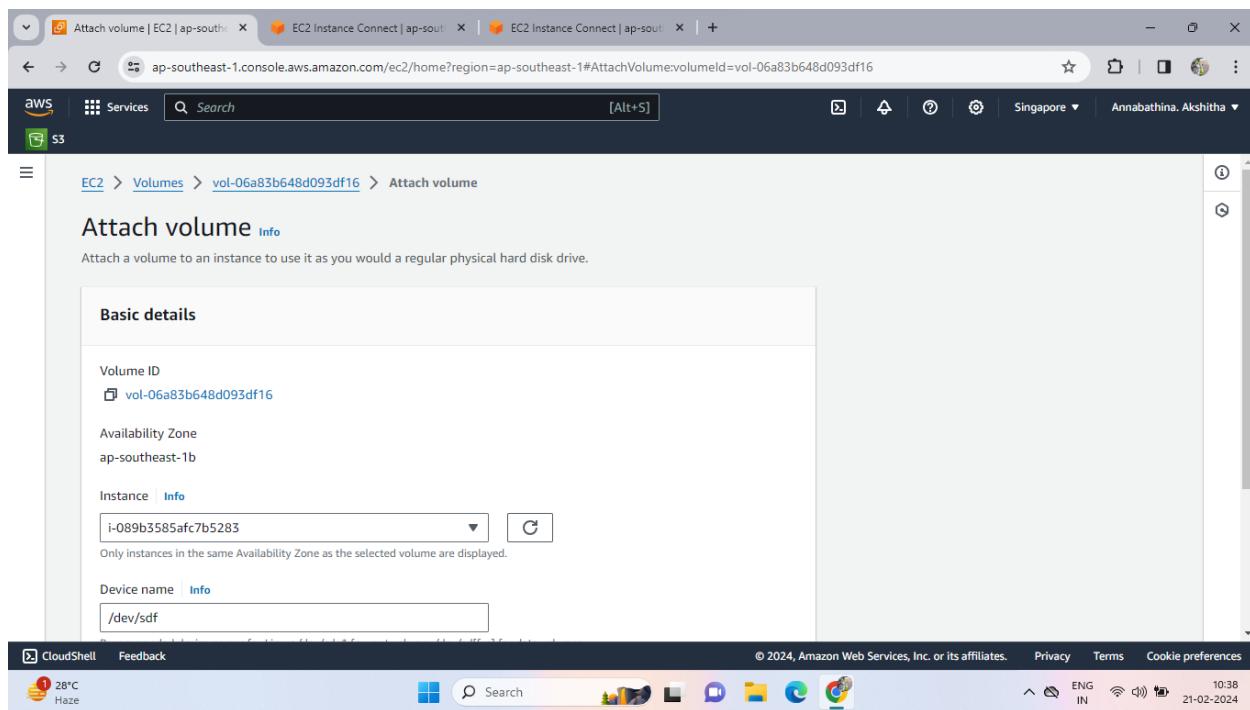
Device name Info
/dev/sdf

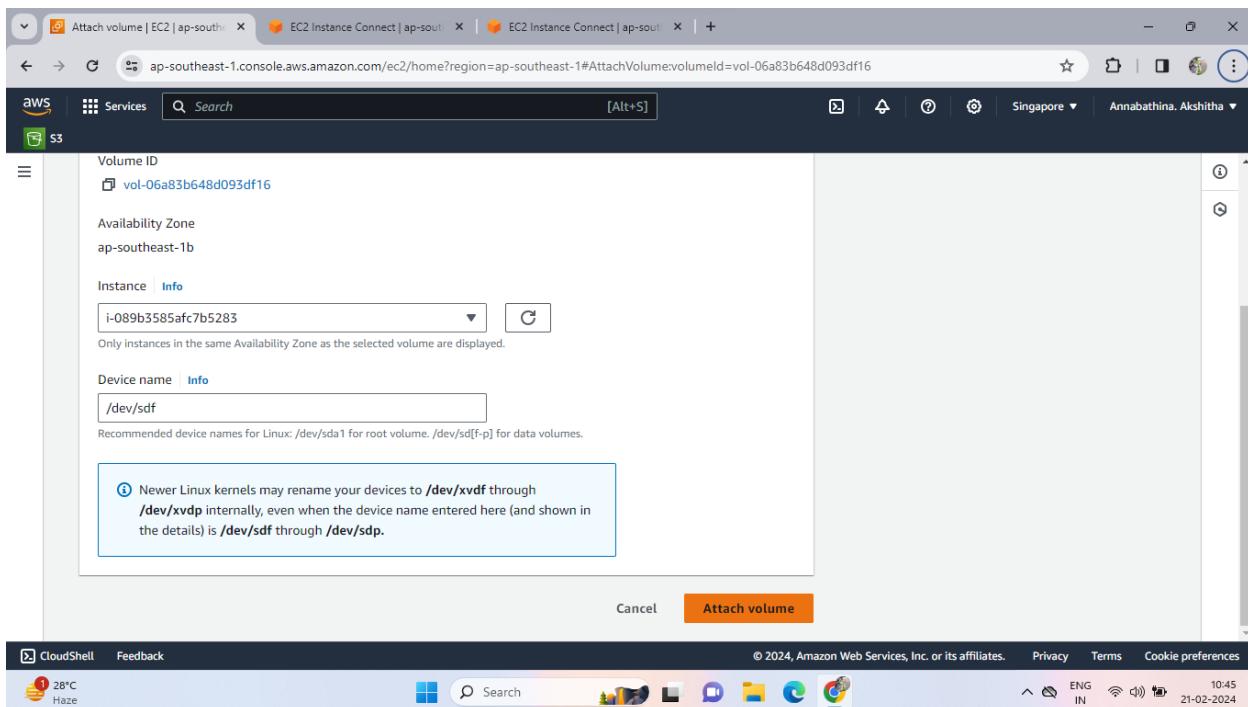
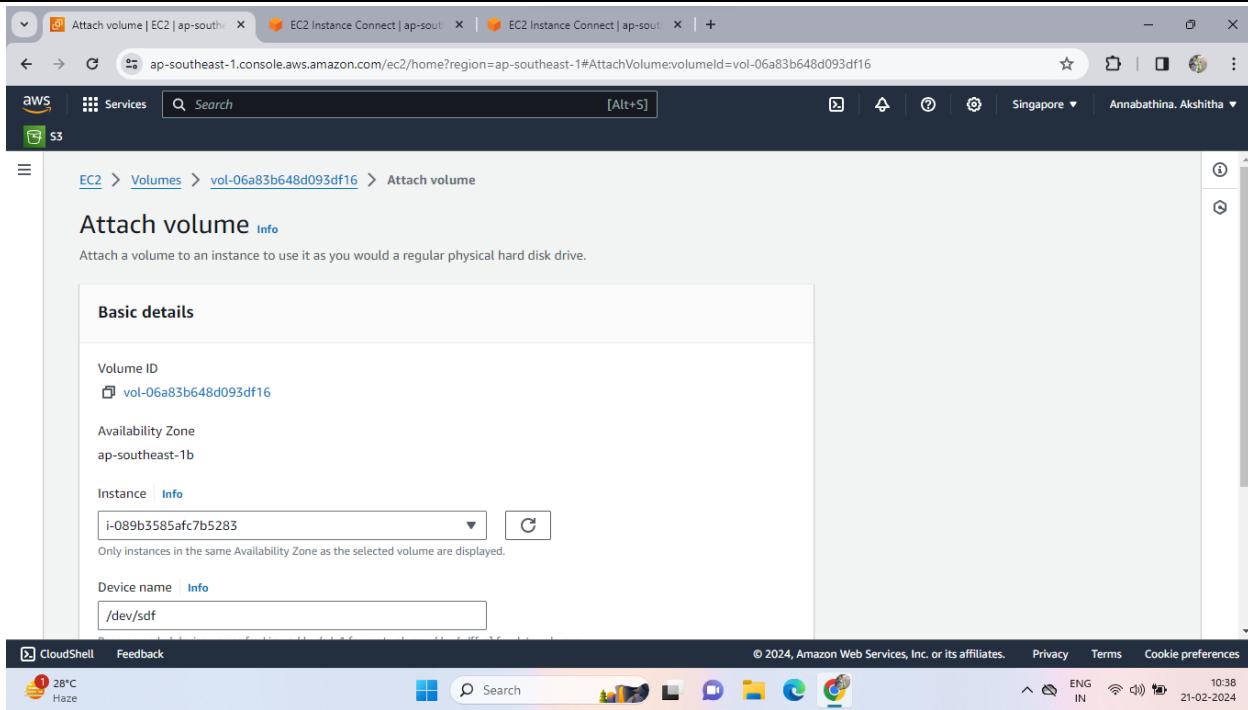
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After Attach volume to check the file system is there or not

Then see the data in volume Command is

- **File -s /dev/xvdf**
- **Mkdir /data**

- Mount /dev/xvdf /data
- Cd /data
- Ls

```

aws Services Search [Alt+S] N. Virginia Annabathina.Akshitha
S3 EC2
root@ip-172-31-22-180:~# 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 10GM 0 part /boot/efi
xvdf   202:80   0 10G  0 disk
root@ip-172-31-22-180:~# file -s /dev/xvdf
/dev/xvdf: XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
root@ip-172-31-22-180:~#

```

i-0dbef082d215b2118 (user)
PublicIPs: 54.204.96.103 PrivateIPs: 172.31.22.180

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SENSEX +0.65% ENG US 15:23 22-02-2024

```

aws Services Search [Alt+S] N. Virginia Annabathina.Akshitha
S3 EC2
root@ip-172-31-22-180:~# 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 10GM 0 part /boot/efi
xvdf   202:80   0 10G  0 disk
root@ip-172-31-22-180:~# file -s /dev/xvdf
/dev/xvdf: XFS filesystem data (blksz 4096, inosz 512, v2 dirs)
root@ip-172-31-22-180:~# mkdir /data
root@ip-172-31-22-180:~# mount /dev/xvdf /data
root@ip-172-31-22-180:~# cd /data
root@ip-172-31-22-180:/data# ls
123 214 akshil
root@ip-172-31-22-180:/data# cat akshil
hi good evng to all
i am learning devops from vcube
how are you

root@ip-172-31-22-180:/data# 

```

i-0dbef082d215b2118 (user)
PublicIPs: 54.204.96.103 PrivateIPs: 172.31.22.180

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33°C Very high UV ENG US 15:25 22-02-2024