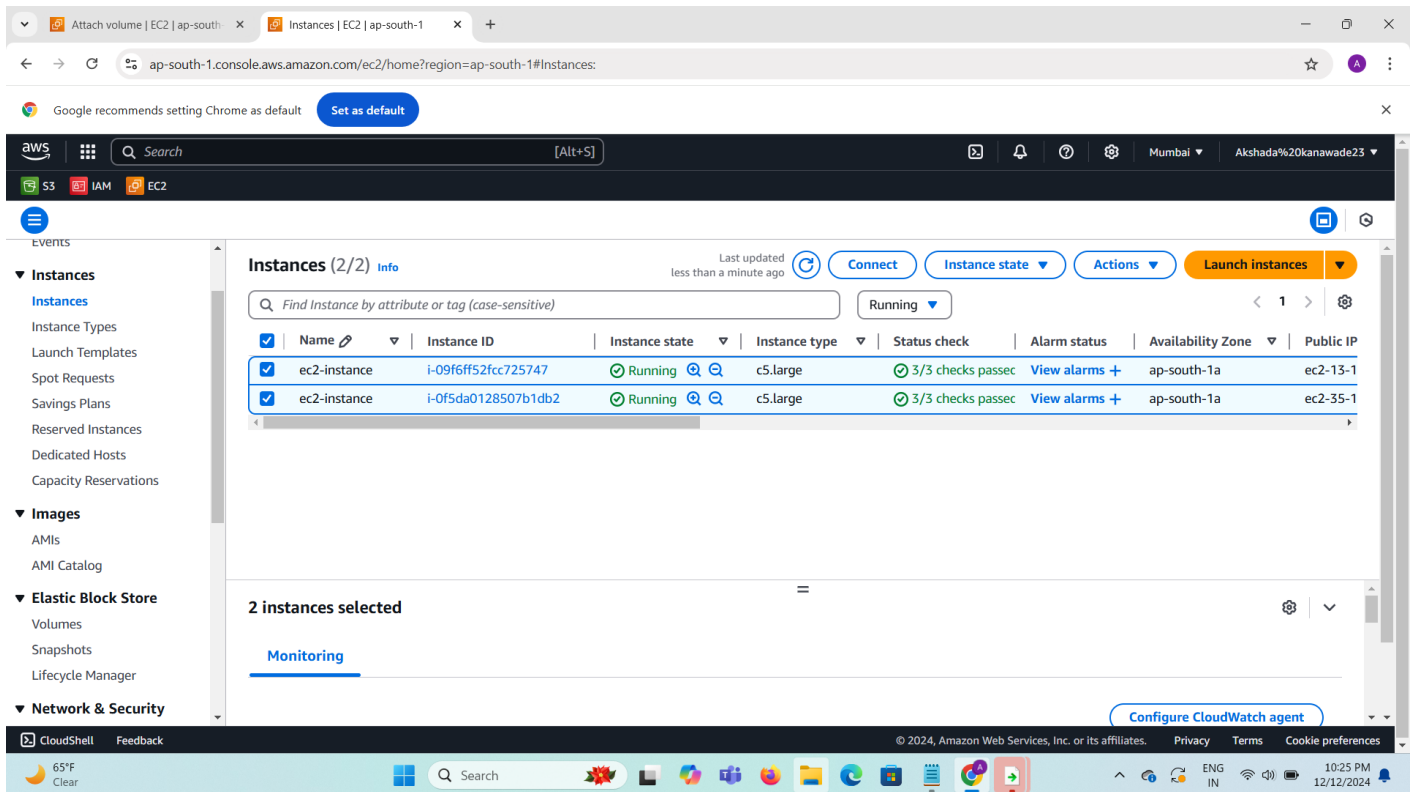


## AWS Tasks On EC2 Service.

## Task 4 : "Attach Single Volume To More Than One / Multiple Instance."

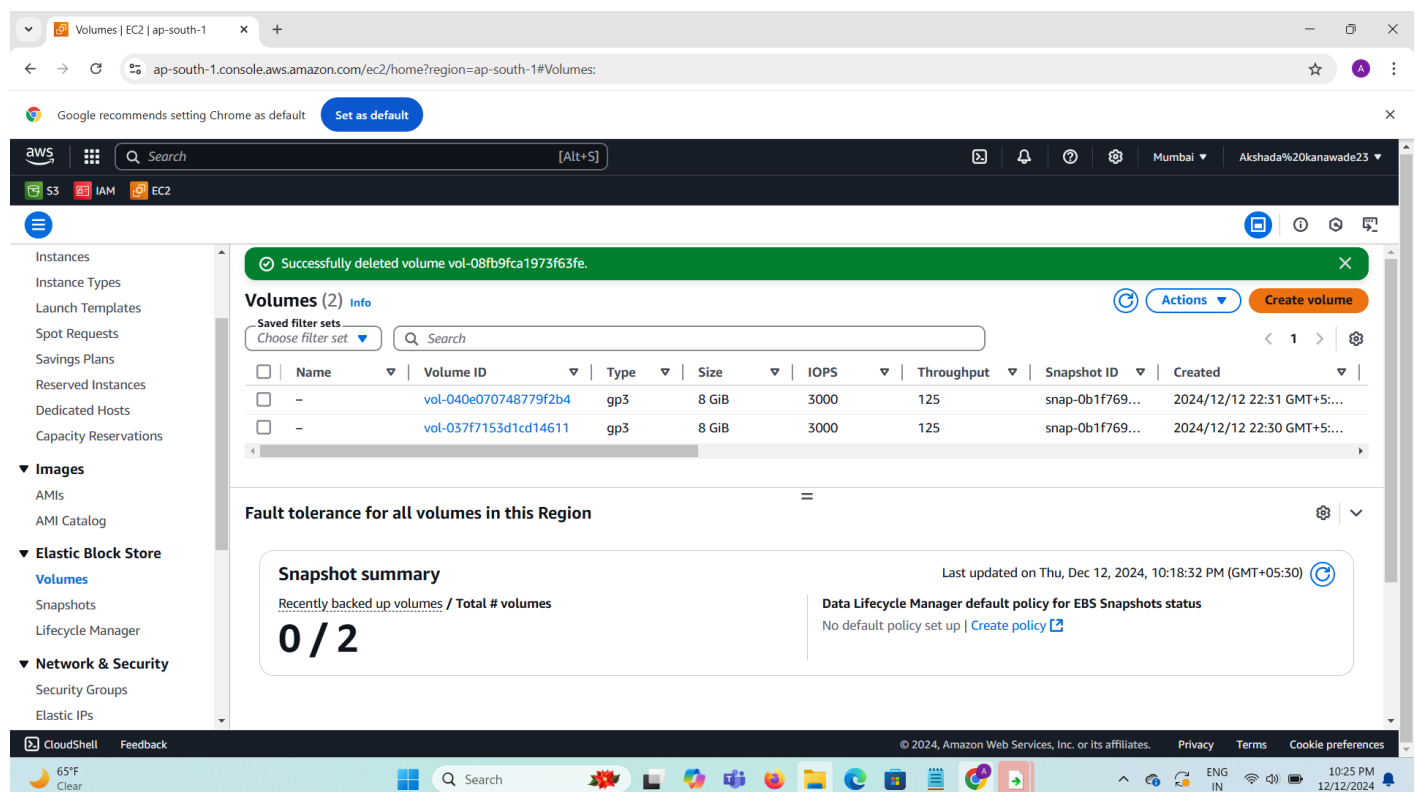
## 1. Launch Two EC2 Instance.



The screenshot shows the AWS Management Console for the 'ap-south-1' region. The 'Instances' page displays two EC2 instances in a 'Running' state. The left sidebar shows the navigation menu with 'Instances' selected. The top navigation bar includes the AWS logo, search bar, and user profile. The main content area shows a table of instances with columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IP.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
ec2-instance	i-09f6ff52fcc725747	Running	c5.large	3/3 checks passed	View alarms +	ap-south-1a	ec2-13-1
ec2-instance	i-0f5da0128507b1db2	Running	c5.large	3/3 checks passed	View alarms +	ap-south-1a	ec2-35-1

## 2. To Create Volume , Go To EBS → Volume → Create Volume.



The screenshot shows the AWS Management Console for the 'ap-south-1' region, specifically the 'Volumes' page. A green notification banner at the top indicates 'Successfully deleted volume vol-08fb9fca1973f63fe.' The left sidebar shows the navigation menu with 'Volumes' selected. The main content area shows a table of volumes with columns for Name, Volume ID, Type, Size, IOPS, Throughput, Snapshot ID, and Created. Below the table, there is a section for 'Fault tolerance for all volumes in this Region' and a 'Snapshot summary' section.

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created
-	vol-040e070748779f2b4	gp3	8 GiB	3000	125	snap-0b1f769...	2024/12/12 22:31 GMT+5:...
-	vol-037f7153d1cd14611	gp3	8 GiB	3000	125	snap-0b1f769...	2024/12/12 22:30 GMT+5:...

**Snapshot summary**  
Recently backed up volumes / Total # volumes  
**0 / 2**

**Data Lifecycle Manager default policy for EBS Snapshots status**  
No default policy set up | [Create policy](#)

### 3. Select Volume Type As Provisional IOPS (iop2) And Specify Size.

Create volume | EC2 | ap-south-1

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

Google recommends setting Chrome as default [Set as default](#)

aws S3 IAM EC2

EC2 > Volumes > Create volume

### Create volume [Info](#)

Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.

#### Volume settings

**Volume type** [Info](#)

Provisioned IOPS SSD (io2)

**Size (GiB)** [Info](#)

50

Min: 4 GiB, Max: 65536 GiB. The value must be an integer.

**IOPS** [Info](#)

3000

Min: 100 IOPS, Max: 50000 IOPS (up to 1000 IOPS per GiB)

**Throughput (MiB/s)** [Info](#)

Not applicable

**Availability Zone** [Info](#)

ap-south-1a

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### 4. Enable Multi-Attach Feature.

Create volume | EC2 | ap-south-1

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

Google recommends setting Chrome as default [Set as default](#)

aws S3 IAM EC2

EC2 > Volumes > Create volume

### Create volume [Info](#)

Create an Amazon EBS volume to attach to any EC2 instance in the same Availability Zone.

**Snapshot ID - optional** [Info](#)

Don't create volume from a snapshot

**Amazon EBS Multi-Attach** [Info](#)

☒ Enable Multi-Attach

To enable Multi-Attach for Windows Server Failover Cluster (WSFC) please install the latest NVMe driver and configure SCSI persistent reservations according to the [documentation](#).

**Encryption** [Info](#)

Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.

☐ Encrypt this volume

**Tags - optional** [Info](#)

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

[Add tag](#)

You can add 50 more tags.

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## 5. Then, Click On Create Volume.

The screenshot shows the 'Create volume' page in the AWS Management Console. The page is for the 'ap-south-1' region. It includes sections for 'Encryption' (with a checkbox to 'Encrypt this volume'), 'Tags - optional' (with an 'Add tag' button), and a 'Snapshot summary' section. At the bottom right, there are 'Cancel' and 'Create volume' buttons. The AWS console header shows the user 'Akshada%20kanawade23' and the region 'Mumbai'.

## 6. Sucessfully Created Volume.

The screenshot shows the 'Volumes' page in the AWS Management Console. A green notification bar at the top states 'Successfully created volume vol-0a9c6d66d4d648700.' The 'Volumes (1/3)' table lists three volumes. The second volume, 'vol-0a9c6d66d4d648700', is selected and highlighted. Below the table, the details for this volume are shown, including its ID, size (50 GiB), type (io2), IOPS (3000), and status (Okay).

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created
-	vol-040e070748779f2b4	gp3	8 GiB	3000	125	snap-0b1f769...	2024/12/12 22:31 GMT+5:...
<input checked="" type="checkbox"/>	vol-0a9c6d66d4d648700	io2	50 GiB	3000	-	-	2024/12/12 22:38 GMT+5:...
-	vol-037f7153d1cd14611	gp3	8 GiB	3000	125	snap-0b1f769...	2024/12/12 22:30 GMT+5:...

**Volume ID: vol-0a9c6d66d4d648700**

Details	Status checks	Monitoring	Tags
<b>Volume ID</b> vol-0a9c6d66d4d648700	<b>Size</b> 50 GiB	<b>Type</b> io2	<b>Volume status</b> Okay
<b>AWS Compute Optimizer finding</b> Opt-in to AWS Compute Optimizer for recommendations. <a href="#">Learn more</a>	<b>Volume state</b> Available	<b>IOPS</b> 3000	<b>Throughput</b> -
<b>Fast snapshot restored</b> No	<b>Availability Zone</b> ap-south-1a	<b>Created</b> Thu Dec 12 22:38:15 GMT+0530	<b>Multi-Attach enabled</b> Yes

## 7. Now , Select Volume → Action → Attach Volume.

The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, a search bar, and user information. The left sidebar contains navigation links for various services. The main content area displays the 'Volumes' page for the 'ap-south-1' region. A table lists three volumes, with the third volume, 'vol-0a9c6d66d4d648700', selected. The 'Actions' menu is open, showing options like 'Modify volume', 'Create snapshot', and 'Attach volume'. The 'Attach volume' option is highlighted. Below the table, the details for the selected volume are shown, including its ID, size (50 GiB), type (io2), and status (Available).

Name	Volume ID	Type	Size	IOPS	Throughput
-	vol-087f7b4f467e76952	gp3	8 GiB	3000	125
-	vol-0bfae777e00b3f5de	gp3	8 GiB	3000	125
-	vol-0a9c6d66d4d648700	io2	50 GiB	3000	-

Volume ID: vol-0a9c6d66d4d648700

Details | Status checks | Monitoring | Tags

Volume ID: vol-0a9c6d66d4d648700

Size: 50 GiB

Type: io2

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Volume state: Available

IOPS: 3000

Availability Zone: ap-south-1a

Created: Thu Dec 12 2024 22:38:15 GMT+0530

Volume status: Okay

Throughput: -

Multi-Attach enabled: Yes

## 8. Select EC2 Instance And Specify Device Name.

The screenshot shows the 'Attach volume' page in the AWS Management Console. The page title is 'Attach volume'. Below the title, there is a description: 'Attach a volume to an instance to use it as you would a regular physical hard disk drive.' The 'Basic details' section shows the volume ID 'vol-0a9c6d66d4d648700' and the availability zone 'ap-south-1a'. The 'Instance' dropdown is set to 'i-09f6ff52fcc725747' (ec2-instance) (running). The 'Device name' dropdown is set to '/dev/sdb'. A note at the bottom 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.'

Attach volume

Attach a volume to an instance to use it as you would a regular physical hard disk drive.

Basic details

Volume ID: vol-0a9c6d66d4d648700

Availability Zone: ap-south-1a

Instance: i-09f6ff52fcc725747 (ec2-instance) (running)

Device name: /dev/sdb

Recommended device names for Linux: /dev/xvda for root volume, /dev/sd[f-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.

## 9. Click On Attach Volume.

Attach volume | EC2 | ap-south-1 | ap-south-1 | Attach volume

Google recommends setting Chrome as default [Set as default](#)

aws Search [Alt+S]

S3 IAM EC2

EC2 > Volumes > vol-0a9c6d66d4d648700 > Attach volume

### Basic details

**Volume ID**  
vol-0a9c6d66d4d648700

**Availability Zone**  
ap-south-1a

**Instance** [Info](#)  
i-09f6ff52fcc725747 (ec2-instance) (running)

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

**Device name** [Info](#)  
/dev/sdb

Recommended device names for Linux: /dev/xvda for root volume, /dev/sd[f-p] for data volumes.

[i](#) 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](#)

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## 10. Similarly, Attach Another EC2 Instance.

Attach volume | EC2 | ap-south-1 | ap-south-1 | Attach volume

Google recommends setting Chrome as default [Set as default](#)

aws Search [Alt+S]

S3 IAM EC2

EC2 > Volumes > vol-0a9c6d66d4d648700 > Attach volume

### Basic details

**Volume ID**  
vol-0a9c6d66d4d648700

**Availability Zone**  
ap-south-1a

**Instance** [Info](#)  
i-0f5da0128507b1db2 (ec2-instance) (running)

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

**Device name** [Info](#)  
/dev/sdc

Recommended device names for Linux: /dev/xvda for root volume, /dev/sd[f-p] for data volumes.

**Attached instances**  
i-09f6ff52fcc725747

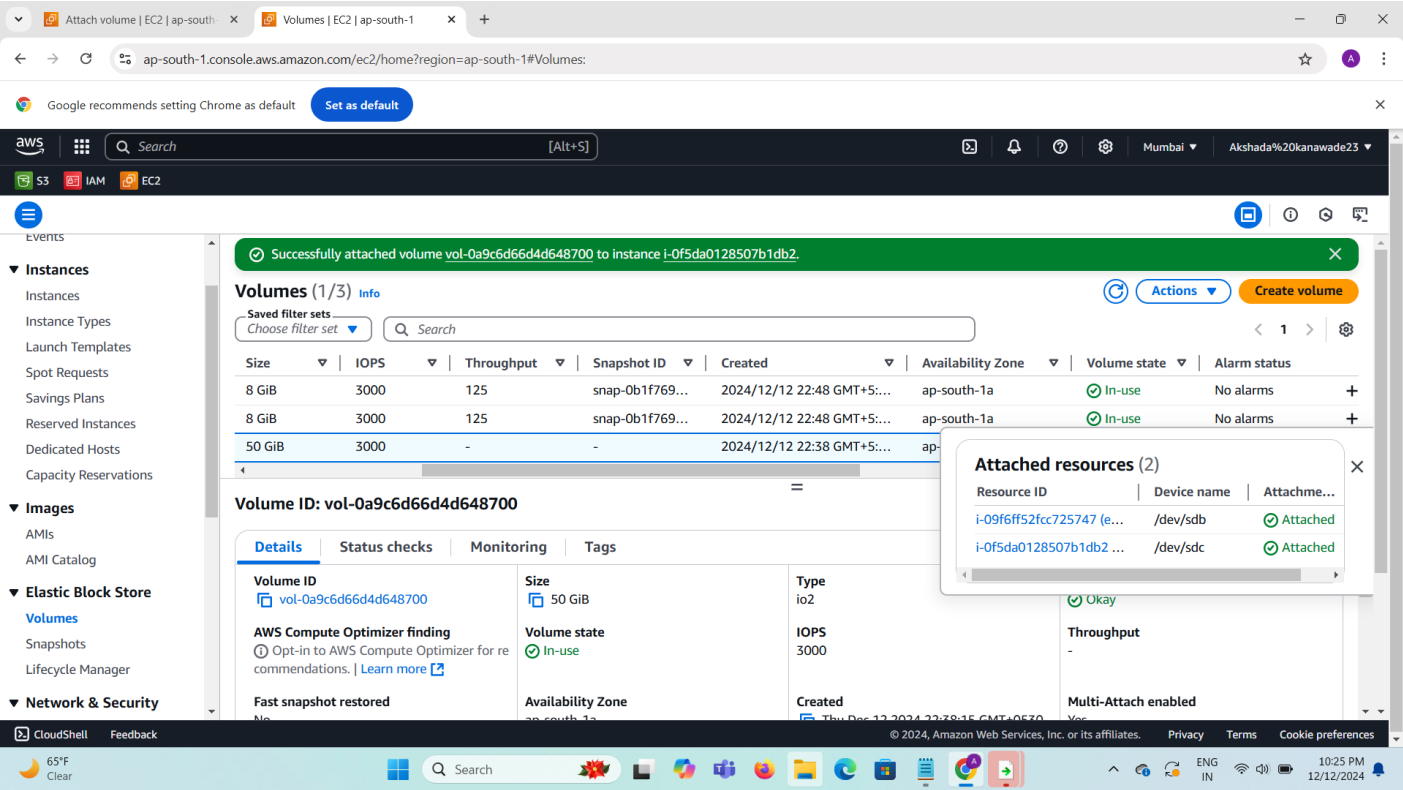
[i](#) Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

[Cancel](#) [Attach volume](#)

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11. And Here, We Have Attach More Than One Instance To The Single Volume.



THANK YOU..!!