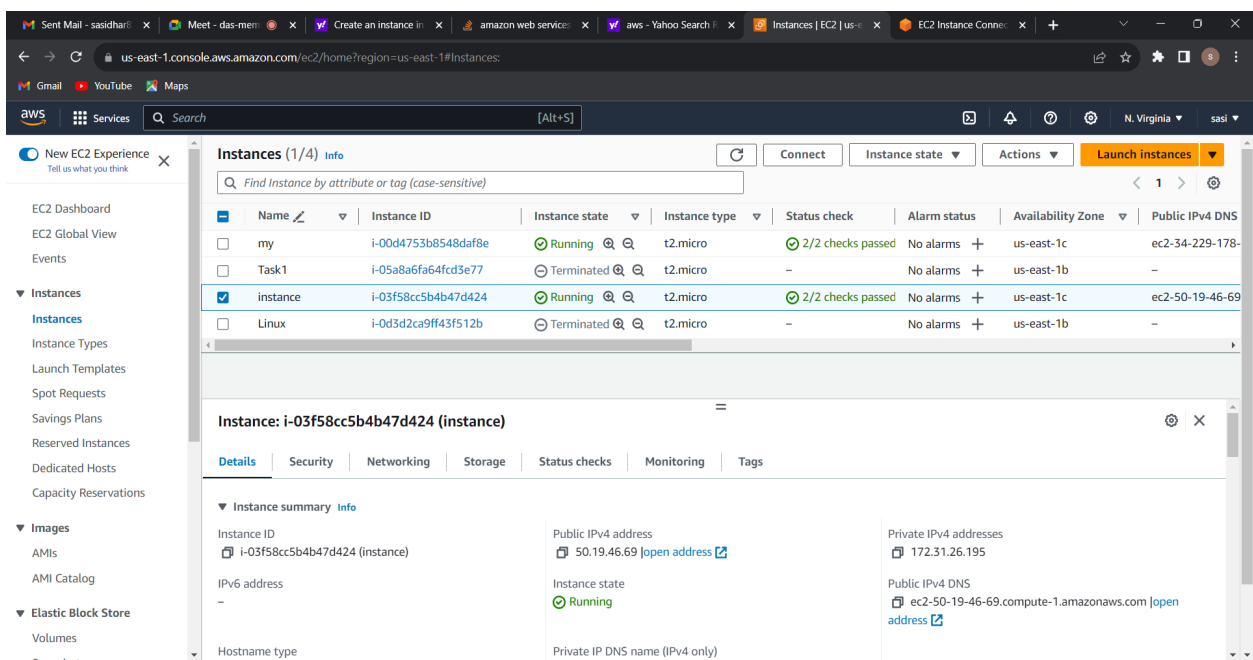
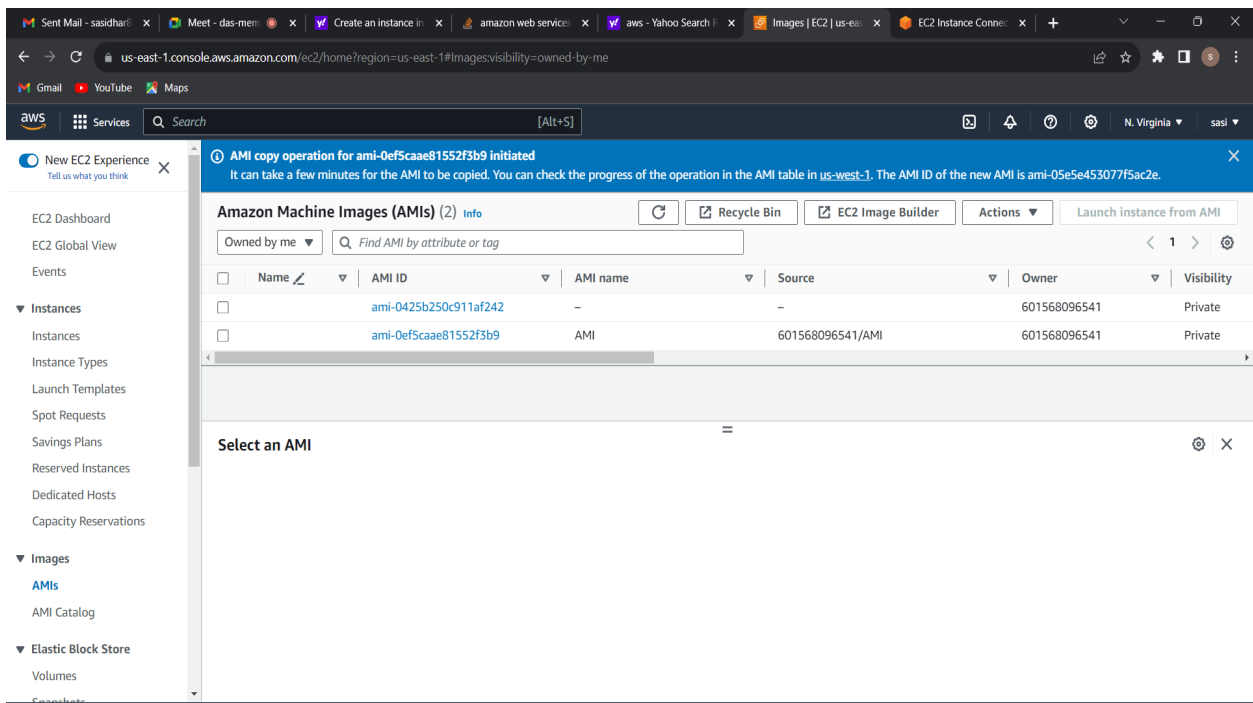


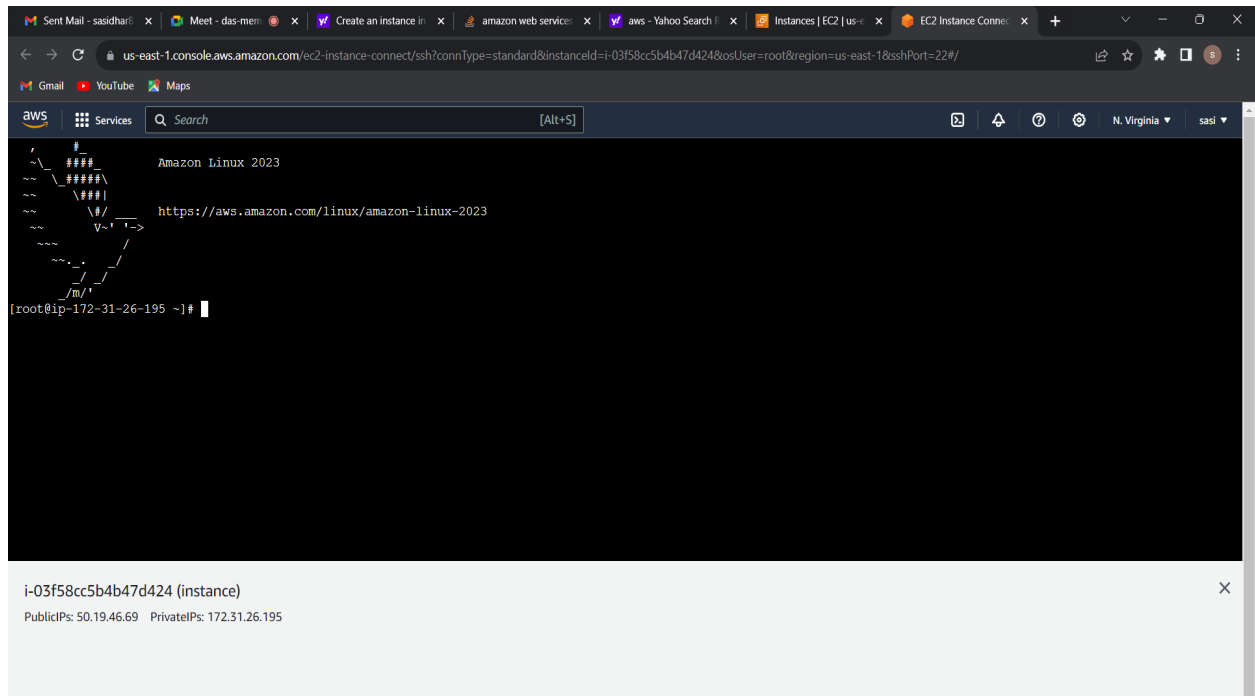
1. Create an instance in the US-East-1 (N. Virginia) region with Linux OS and manage the requirement of web servers of your company using AMI.

First you have to create an AMI Using that we will Launch instance in US-East-1 (N.Virginia)

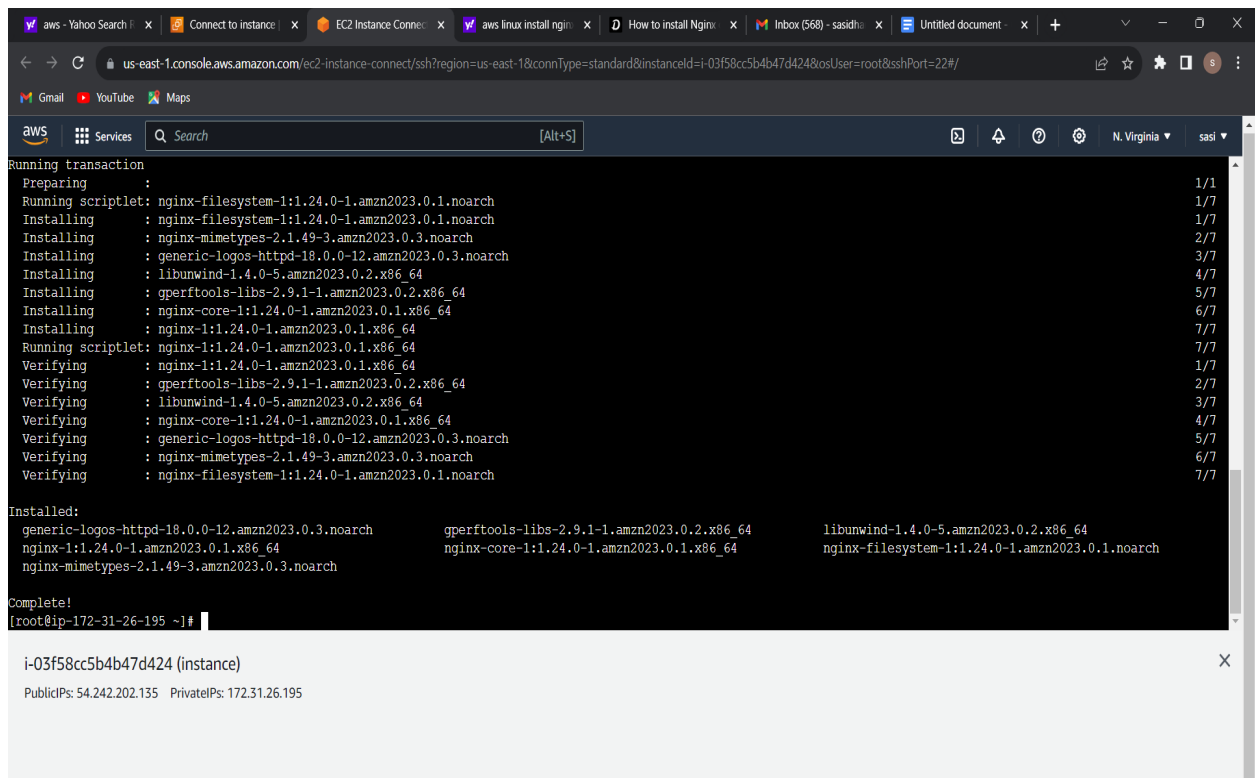
See the images you will find in the region on the left top.



I have taken instance see the public IP4 address for reference



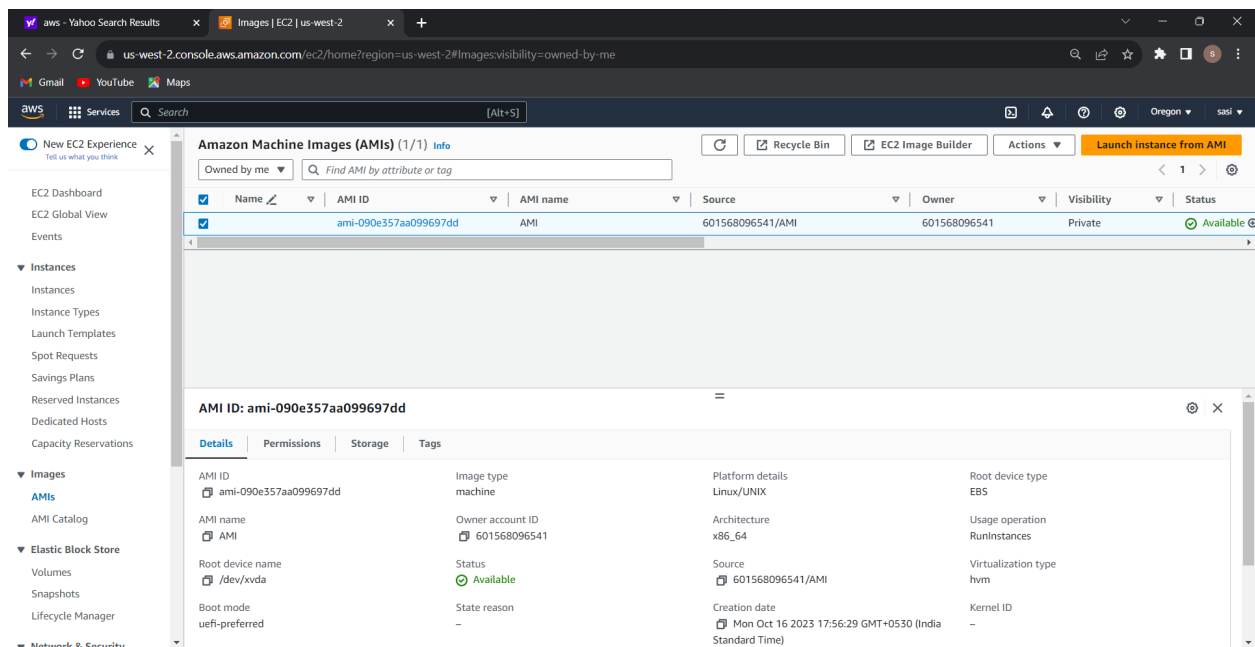
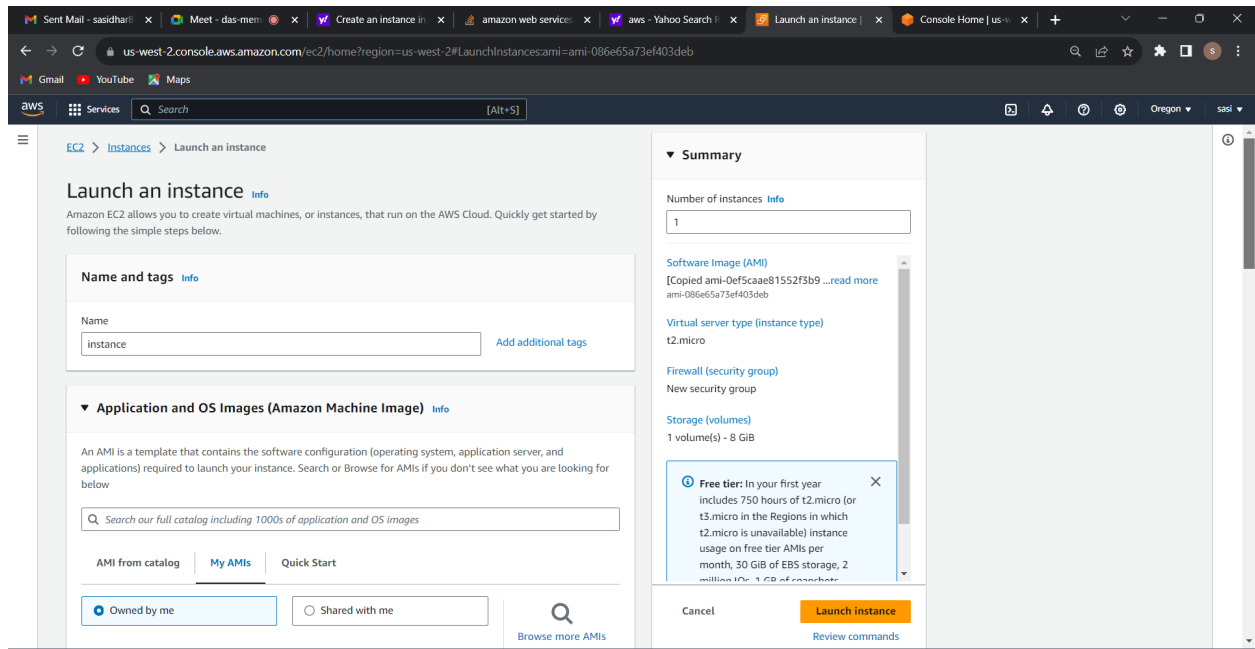
Install nginx and all



2. Replicate the instance in the US-West-2 (Oregon) region.

Same process like question 1. But different region

Just copy the AMI in region one it will ask where you have to copy that AMI Just simply select the region US-West-2 (Oregon).



aws - Yahoo Search Results

Launch an instance | EC2 | us-w

us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#LaunchInstances:ami=ami-090e357aa099697dd

GmailYouTubeMaps

awsServicesSearch[Alt+S]

Oregonusaf

▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Q Search our full catalog including 1000s of application and OS images

AMI from catalogMy AMIsQuick Start

Amazon Machine Image (AMI)

AMI

ami-090e357aa099697dd

Q

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Published	Architecture	Virtualization	Root device type	ENA Enabled
2023-10-16T12:26:29.000Z	x86_64	hvm	ebs	Yes

▼ Instance type Info

Instance type

▼ Summary

Number of instances Info

1

Software Image (AMI)

[Copied ami-0ef5cae81552f3b9 ...read more]

ami-090e357aa099697dd

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million IOPS of on-demand

Cancel

Launch instance

Review commands

aws - Yahoo Search Results x Volumes | EC2 | us-east-1 x +

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

Gmail YouTube Maps

aws Services Search [Alt+S]

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Volumes

Successfully created volume vol-0cb00f0875b954b6d.

Volumes (4) Info

Search

<input type="checkbox"/>	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
<input type="checkbox"/>	-	vol-0a97eb8719ce86f7c	gp3	8 GiB	3000	125	snap-Odd09dd...	2023/10/16 17:37 GMT+5:...
<input type="checkbox"/>	-	vol-06bed8040805fce4b	gp3	8 GiB	3000	125	snap-061d433...	2023/10/16 17:44 GMT+5:...
<input type="checkbox"/>	-	vol-085257af5edfe820d	gp2	100 GiB	300	-	-	2023/10/17 09:36 GMT+5:...
<input type="checkbox"/>	-	vol-0cb00f0875b954b6d	gp2	110 GiB	330	-	-	2023/10/17 09:37 GMT+5:...

Select a volume above

aws - Yahoo Search Results x Create volume | EC2 | us-east-1 x +

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

Gmail YouTube Maps

aws Services Search [Alt+S]

Volume settings

Volume type Info
General Purpose SSD (gp2)

Size (GiB) Info
120
Min: 1 GiB, Max: 16384 GiB. The value must be an integer.

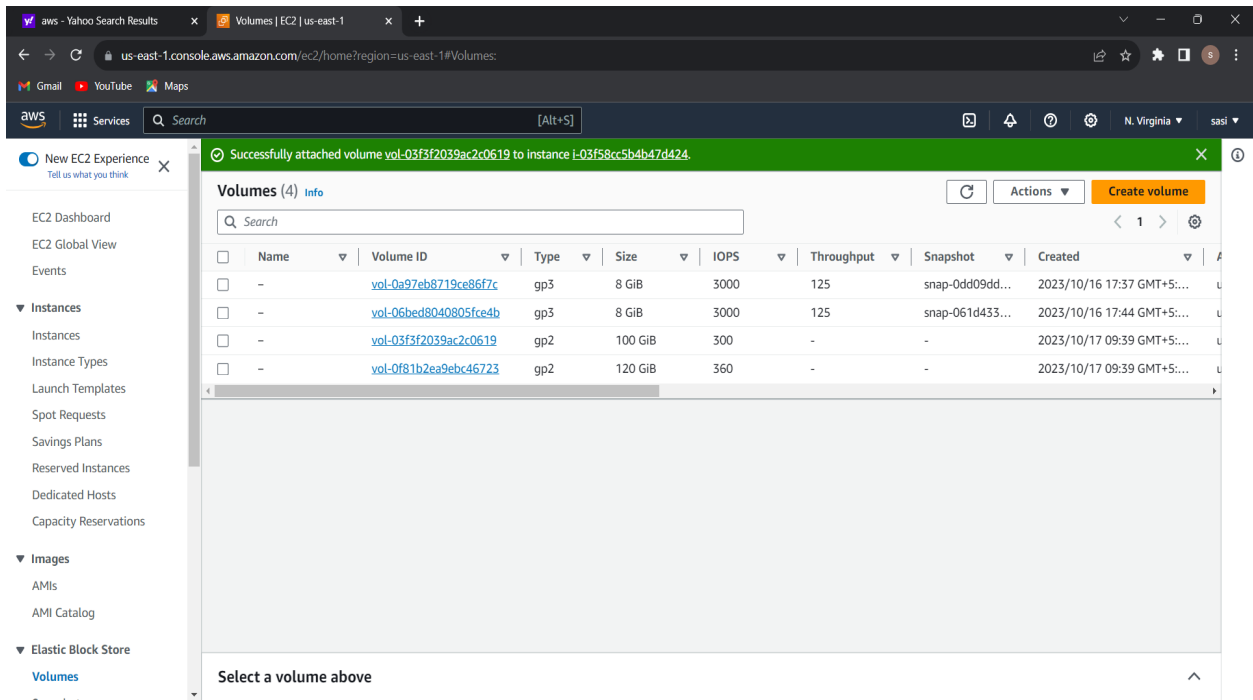
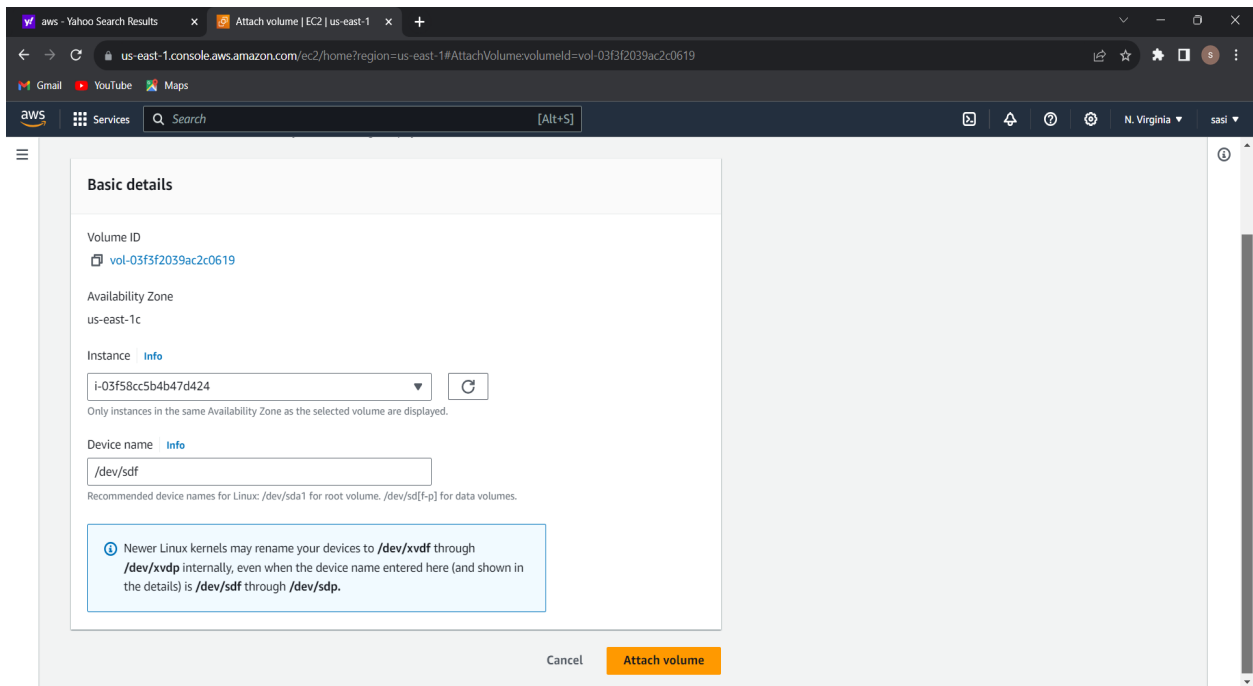
IOPS Info
360 / 3000
Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS.

Throughput (MiB/s) Info
Not applicable

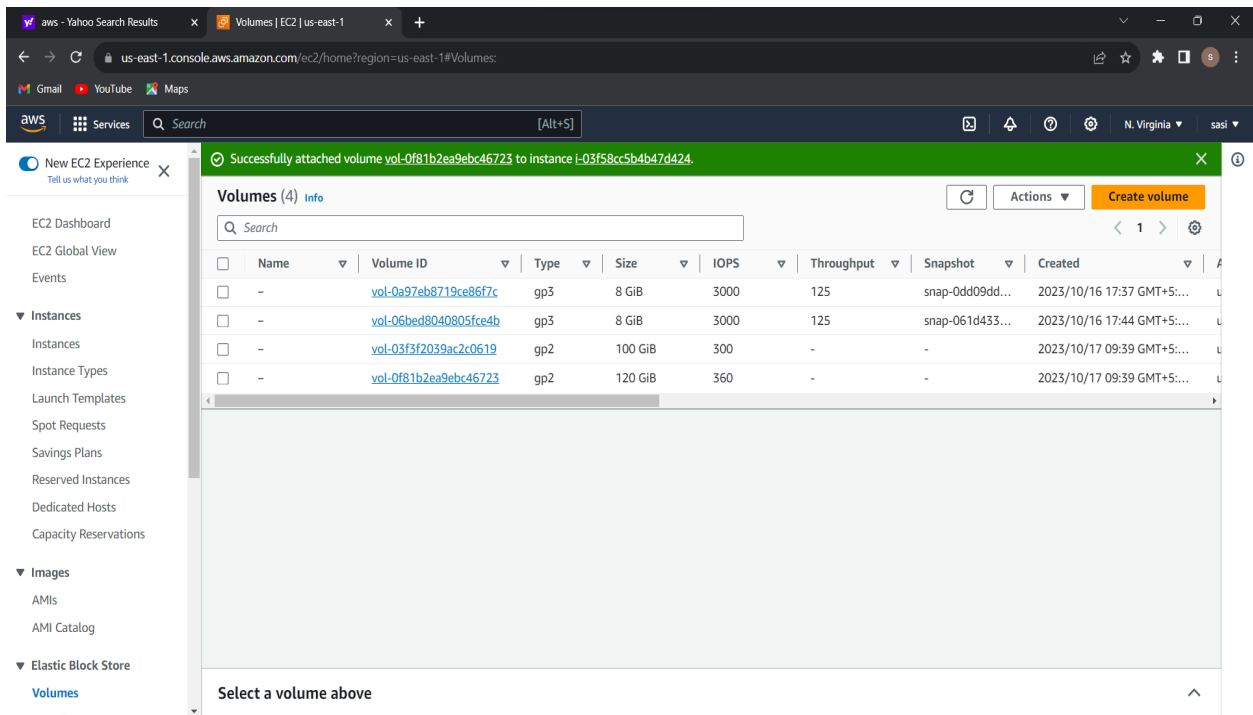
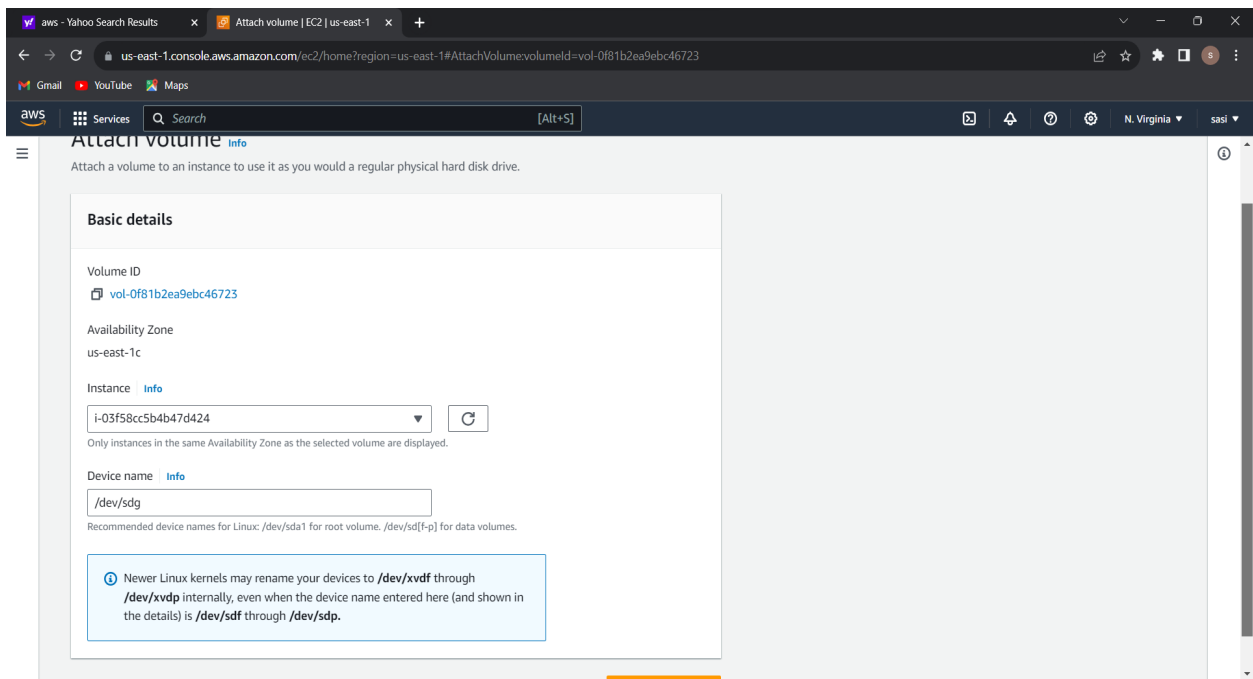
Availability Zone Info
us-east-1c

Snapshot ID - optional Info
Don't create volume from a snapshot

Encryption Info
Use Amazon EBS encryption as an encryption solution for your EBS resources associated with your EC2 instances.
☐ Encrypt this volume



4.Delete one volume after detaching it and extend the size of the other volume.



aws - Yahoo Search Results x Instance details | EC2 | us-east-1 x

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-03f58cc5b4b47d424

aws Services Search [Alt+S]

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Required

Details Security Networking **Storage** Status checks Monitoring Tags

▼ Root device details

Root device name /dev/xvda Root device type EBS EBS optimization disabled

▼ Block devices

Filter block devices

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID
vol-06bed8040805fce4b	/dev/xvda	8	Attached	2023/10/16 17:44 GMT+5:30	No	-
vol-03f3f2039ac2c0619	/dev/sdf	100	Attached	2023/10/17 09:39 GMT+5:30	No	-
vol-0f81b2ea9ebc46723	/dev/sdg	120	Attached	2023/10/17 09:40 GMT+5:30	No	-

Recent root volume replacement tasks

Filter tasks

Task ID	Task state	Start time	Completion time	Tags
No recent replace root volume tasks				

Replace root volume

aws - Yahoo Search Results x Volumes | EC2 | us-east-1 x

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

aws Services Search [Alt+S]

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Volumes

Successfully created snapshot snap-09f7fe8e63f1e6b2c from volume vol-03f3f2039ac2c0619.
If you need your snapshot to be immediately available consider using Fast Snapshot Restore.

Manage fast snapshot restore

Volumes (1/4) info

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
<input type="checkbox"/>	-	vol-0a97eb8719ce86f7c	gp3	8 GiB	3000	125	snap-0dd09dd...	2023/10/16 17:37 GMT+5:30
<input type="checkbox"/>	-	vol-06bed8040805fce4b	gp3	8 GiB	3000	125	snap-061d433...	2023/10/16 17:44 GMT+5:30
<input type="checkbox"/>	-	vol-03f3f2039ac2c0619	gp2	100 GiB	300	-	-	2023/10/17 09:39 GMT+5:30
<input checked="" type="checkbox"/>	-	vol-0f81b2ea9ebc46723	gp2	120 GiB	360	-	-	2023/10/17 09:39 GMT+5:30

Volume ID: vol-0f81b2ea9ebc46723

Details Status checks Monitoring Tags

Volume ID vol-0f81b2ea9ebc46723	Size 120 GiB	Type gp2	Volume status Okay
AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more	Volume state In-use	IOPS 360	Throughput -
Encryption Not encrypted	KMS key ID -	KMS key alias -	KMS key ARN -

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

Search [Alt+S]

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Volumes (1/4) info

Search

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
-	vol-0a97eb8719ce86f7c	gp3	8 GiB	3000	125	snap-0dd09dd...	2023/10/16 17:37 GMT+5...
-	vol-06bed8040805fce4b	gp3	8 GiB	3000	125	snap-061d433...	2023/10/16 17:44 GMT+5...
-	vol-03f3f2039ac2c0619	gp2	100 GiB	300	-	-	2023/10/17 09:39 GMT+5...
-	vol-0f81b2ea9ebc46723	gp2	120 GiB	360	-	-	2023/10/17 09:39 GMT+5...

Volume ID: vol-03f3f2039ac2c0619

Details Status checks Monitoring

Volume ID: vol-03f3f2039ac2c0619

Size: 100 GiB

Type: gp2

Volume status: Okay

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

Volume state: In-use

IOPS: 300

Throughput: -

Encryption: Not encrypted

KMS key ID: -

KMS key alias: -

KMS key ARN: -

Detach vol-03f3f2039ac2c0619?

After you detach a volume, you might still be charged for volume storage. If you no longer need the volume, delete it to stop incurring charges.

Are you sure that you want to detach volume vol-03f3f2039ac2c0619?

Cancel Detach

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

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Successfully detached volume.

Volumes (4) info

Search

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
-	vol-0a97eb8719ce86f7c	gp3	8 GiB	3000	125	snap-0dd09dd...	2023/10/16 17:37 GMT+5...
-	vol-06bed8040805fce4b	gp3	8 GiB	3000	125	snap-061d433...	2023/10/16 17:44 GMT+5...
-	vol-03f3f2039ac2c0619	gp2	100 GiB	300	-	-	2023/10/17 09:39 GMT+5...
-	vol-0f81b2ea9ebc46723	gp2	120 GiB	360	-	-	2023/10/17 09:39 GMT+5...

Select a volume above

aws - Yahoo Search Results x Volumes | EC2 | us-east-1 x +

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

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Successfully detached volume.

Volumes (1/4) Info

Search

Actions Create volume

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
<input type="checkbox"/>	-	vol-0a97eb8719ce86f7c	gp3	8 GiB	3000	125	snap-Odd09dd...	2023/10/16 17:37 GMT+5...
<input type="checkbox"/>	-	vol-06bed8040805fce4b	gp3	8 GiB	3000	125	snap-061d433...	2023/10/16 17:44 GMT+5...
<input checked="" type="checkbox"/>	-	vol-03f3f2039ac2c0619	gp2	100 GiB	300	-	-	2023/10/17 09:39 GMT+5...
<input type="checkbox"/>	-	vol-0f81b2ea9ebc46723	gp2	120 GiB	360	-	-	2023/10/17 09:39 GMT+5...

Volume ID: vol-03f3f2039ac2c0619

Details Status checks Monitoring

Volume ID: vol-03f3f2039ac2c0619 Size: 100 GiB Type: gp2 Volume state: Available IOPS: 300 Throughput: -

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

Encryption: Not encrypted KMS key ID: - KMS key alias: - KMS key ARN: -

Delete vol-03f3f2039ac2c0619?

After you delete a volume, its data is permanently deleted and the volume can no longer be attached to an instance.

Are you sure that you want to delete vol-03f3f2039ac2c0619?

Cancel Delete

aws - Yahoo Search Results x Volumes | EC2 | us-east-1 x +

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

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Successfully deleted volume vol-03f3f2039ac2c0619.

Volumes (3) Info

Search

Actions Create volume

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
<input type="checkbox"/>	-	vol-0a97eb8719ce86f7c	gp3	8 GiB	3000	125	snap-Odd09dd...	2023/10/16 17:37 GMT+5...
<input type="checkbox"/>	-	vol-06bed8040805fce4b	gp3	8 GiB	3000	125	snap-061d433...	2023/10/16 17:44 GMT+5...
<input type="checkbox"/>	-	vol-0f81b2ea9ebc46723	gp2	120 GiB	360	-	-	2023/10/17 09:39 GMT+5...

Select a volume above

The screenshot shows a web browser window with the AWS Management Console. The browser tabs include 'aws - Yahoo Search Results', 'Instances | EC2 | us-east-1', and 'EC2 Instance Connect | us-east-1'. The address bar shows the URL: `us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-03f58cc5b4b47d424&osUser=root®ion=us-east-1&sshPort=22#`. The AWS Services bar is visible with a search bar and navigation icons. The main content area displays a terminal session from an EC2 instance. The terminal output shows the results of the `df -h` and `lsblk` commands. Below the terminal, the instance details for `i-03f58cc5b4b47d424` are shown, including Public IPs and Private IPs.

```
[root@ip-172-31-26-195 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        4.0M  0  4.0M   0% /dev
tmpfs           475M  0  475M   0% /dev/shm
tmpfs           190M  2.9M  188M   2% /run
/dev/xvda1      8.0G  1.6G  6.5G  20% /
tmpfs           475M  0  475M   0% /tmp
/dev/xvda128    10M  1.3M  8.7M  13% /boot/efi
tmpfs           95M  0  95M   0% /run/user/0

[root@ip-172-31-26-195 ~]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS
xvda        202:0    0   8G  0 disk 
└─xvda1     202:1    0   8G  0 part /
└─xvda127  259:0    0    1M  0 part 
└─xvda128  259:1    0   10M  0 part /boot/efi
xvdd        202:96   0  150G  0 disk
```

i-03f58cc5b4b47d424 (instance)
PublicIPs: 54.242.202.135 PrivateIPs: 172.31.26.195

5. Take backup of this EBS volume

Backup is nothing but Creating snapshots.

The screenshot shows the 'Create snapshot' page in the AWS Management Console. The breadcrumb navigation shows the path: `EC2 > Volumes > vol-0f81b2ea9ebc46723 > Create snapshot`. The page title is 'Create snapshot' with an 'Info' link. Below the title, a description states: 'Create a point-in-time snapshot to back up the data on an Amazon EBS volume to Amazon S3.' The 'Details' section contains the following information:

- Volume ID: `vol-0f81b2ea9ebc46723`
- Description: `volume3` (255 characters maximum)
- Encryption: `Not encrypted`

The 'Tags' section shows 'No tags associated with the resource.'

aws - Yahoo Search Results

Volumes | EC2 | us-east-1

EC2 Instance Connect | us-east-1

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes

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File Gateway

Successfully created snapshot snap-0240f3d2335ea11c7 from volume vol-0f81b2ea9ebc46723.

If you need your snapshot to be immediately available consider using Fast Snapshot Restore.

Manage fast snapshot restore

Volumes (3) info

Search

Actions

Create volume

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot	Created
	-	vol-0a97eb8719ce86f7c	gp3	8 GiB	3000	125	snap-0dd09dd...	2023/10/16 17:37 GMT+5...
	-	vol-06bed8040805fce4b	gp3	8 GiB	3000	125	snap-061d433...	2023/10/16 17:44 GMT+5...
	-	vol-0f81b2ea9ebc46723	gp2	150 GiB	450	-	-	2023/10/17 09:39 GMT+5...

Select a volume above