

AWS EC2 & EBS Assignment Submission

Name: Vikram

Course: AWS DevOps (Intellipaat)

Assignment: EC2 & EBS Configuration Task

Problem Statement

You work for XYZ Corporation. Your corporation is working on an application and they require secured web servers on Linux to launch the application.

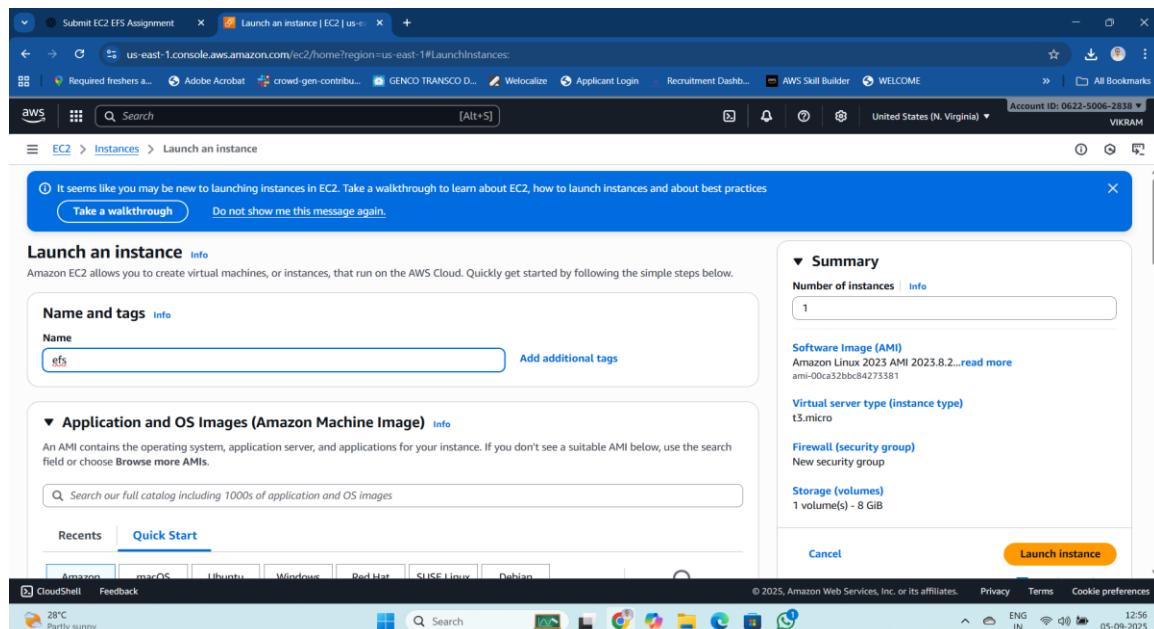
Tasks Performed

Task 1: Create an instance in the US-East-1 (N. Virginia) region

Steps taken:

1. Log in to AWS Console and set region to US-East-1 (N. Virginia).
2. Go to EC2 → Instances → Launch instances.
3. Provide name (eg. EC2)
4. Select AMI (Amazon Linux)
5. Select Instance Type t3 micro (free tier)
6. Create new or use existing keypair
7. Allow SSH in network settings
8. Launch Instance
9. Select the Launched instance and click on connect
10. Now connect with EC2 Instance connect

Screenshots :



▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose [Browse more AMIs](#).

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

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux Debian

aws Mac ubuntu Microsoft Red Hat SUSE debian

Browse more AMIs Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2023 kernel-6.1 AMI
ami-00ca32bbc84273381 (64-bit (x86, uefi-preferred) / ami-0aa7db294d00216f (64-bit (Arm), uefi)
Virtualization: hvm ENA enabled: true Root device type: ebs Free tier eligible

Description

Amazon Linux 2023 (kernel-6.1) is a modern, general purpose Linux-based OS that comes with 5 years of long term support. It is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to develop and run your cloud applications.

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.8.2...[read more](#)
ami-00ca32bbc84273381

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel Launch instance

Preview code

EC2 > Instances > Launch an instance

Instance type

t3.micro Free tier eligible

Family: t3 2 vCPU 1 GiB Memory Current generation: true

On-Demand Ubuntu Pro base pricing: 0.0139 USD per Hour

On-Demand SUSE base pricing: 0.0104 USD per Hour On-Demand Linux base pricing: 0.0104 USD per Hour

On-Demand RHEL base pricing: 0.0392 USD per Hour On-Demand Windows base pricing: 0.0196 USD per Hour

All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

ec2-vik-87

Create new key pair

▼ Network settings [Info](#)

Network [Info](#)

vpc-001f9081dd4304264

Subnet [Info](#)

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)

CloudShell Feedback

Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.8.2... [read more](#)

ami-00ca52bbc84273381

Virtual server type (instance type)

t3.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Edit

Cancel

Launch instance

Preview code

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Search

CloudWatch Metrics

Google Sheets

File Explorer

Task View

PowerShell

File Explorer

CloudWatch Metrics

12:57 05-09-2025

EC2 > Instances > Launch an instance

NETWORK settings

Network | Info
vpc-001f9081dd4304264

Subnet | Info
No preference (Default subnet in any availability zone)

Auto-assign public IP | Info
Enable

Firewall (security groups) | Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

We'll create a new security group called 'launch-wizard-2' with the following rules:

- Allow SSH traffic from Anywhere 0.0.0.0/0
- Allow HTTPS traffic from the internet To set up an endpoint, for example when creating a web server
- Allow HTTP traffic from the internet To set up an endpoint, for example when creating a web server

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Summary

Number of instances | Info
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.8.2...read more
ami-00ca32bbc84273381

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Launch instance **Preview code**

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Configure storage | Info Advanced

1x 8 GiB gp3 Root volume, 3000 IOPS, Not encrypted

Add new volume

Advanced details | Info

Software Image (AMI)
Amazon Linux 2023 AMI 2023.8.2...read more
ami-00ca32bbc84273381

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Launch instance **Preview code**

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Screenshot of the AWS EC2 Instances page showing a single instance named 'efs' (Instance ID: i-01bc3d45ab4716339) in the 'Running' state.

The instance details are as follows:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
efs	i-01bc3d45ab4716339	Running	t3.micro	Initializing	View alarms +	us-east-1a	ec2-13-220-

Below the instance table, the 'Details' tab is selected, showing the following summary information:

Instance ID	Public IPv4 address	Private IPv4 addresses
i-01bc3d45ab4716339	13.220.184.245 open address	172.31.29.54
IPv6 address	Instance state	Public DNS
-	Running	ec2-13-220-184-245.compute-1.amazonaws.com open

CloudShell and Feedback buttons are visible at the bottom left, and a footer bar at the bottom right shows the date (05-09-2025), time (12:59), and language (ENG IN).

Screenshot of the 'Connect to instance' dialog for the EC2 instance 'efs' (i-01bc3d45ab4716339).

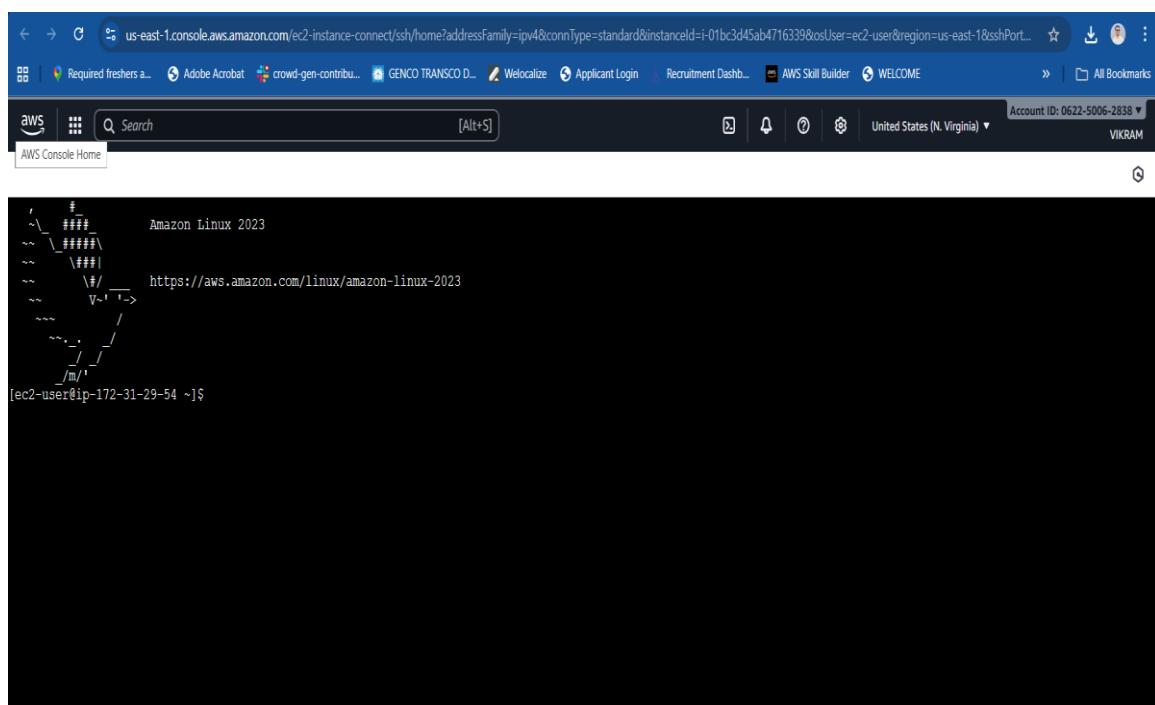
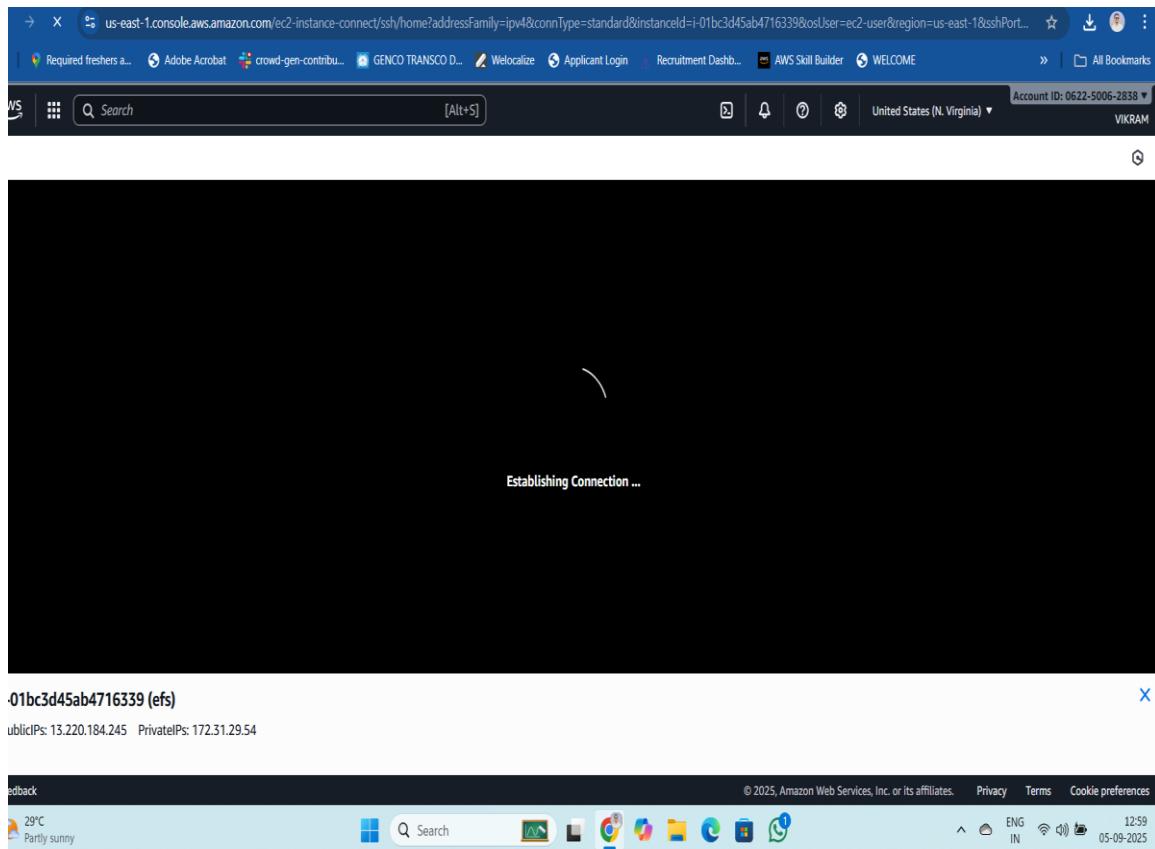
The connection type is set to 'Connect using a Public IP' (13.220.184.245).

The 'Username' field contains 'ec2-user'.

A note at the bottom states: 'Note: In most cases, the default username, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.'

Buttons for 'Cancel' and 'Connect' are at the bottom right.

CloudShell and Feedback buttons are visible at the bottom left, and a footer bar at the bottom right shows the date (05-09-2025), time (12:59), and language (ENG IN).



Task 2: Replicate the instance in US-West-2 (Oregon)

Steps taken:

1. In US-East-1, select your instance → Actions → Image and templates → Create image.
2. Provide a name (ex: ec2 2) and create image.
3. Go to AMI → select the AMI → Actions → Copy AMI.
4. Choose destination region US-West-2 (Oregon) → Copy.
5. Now switch region to US-West-2 (Oregon)
6. Go to AMIs → select the copied AMI → Launch instance.

Screenshot:

The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with options like Dashboard, EC2 Global View, Events, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images (AMIs, Catalog), and Elastic Block Store (Volumes). The main content area displays 'Instances (1/1) Info'. A search bar at the top allows filtering by Name, Instance ID, Instance state, Instance type, Status check, and Alarm state. The single instance listed is 'efs' (Instance ID: i-01bc3d45ab4716339), which is 'Running' (t3.micro). To the right of the instance details is a context menu with options like Instance diagnostics, Instance settings, Networking, Security, Image and templates (highlighted), and Monitor and troubleshoot. At the bottom of the page, there are links for CloudShell, Feedback, and a footer with copyright information and a date (05-09-2025).

The screenshot shows the 'Create image' wizard. The first step, 'Image details', is displayed. It shows the 'Instance ID' as 'i-01bc3d45ab4716339 (efs)'. The 'Image name' field contains 'XYZ'. Below it, there's an optional 'Image description' field and a checked checkbox for 'Reboot instance'. A note states: 'When selected, Amazon EC2 reboots the instance so that data is at rest when snapshots of the attached volumes are taken. This ensures data consistency.' The next section, 'Instance volumes', lists the attached volumes with columns for Storage type, Device, Snapshot, Size, Volume type, IOPS, Throughput, Delete on termination, and Encrypted. The bottom of the page includes standard AWS footer links for CloudShell, Feedback, and various services like CloudWatch, Lambda, and S3.

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateImage:instanceId=i-01bc3d45ab4716339

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EC2 Instances i-01bc3d45ab4716339 Create image

Storage type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination	Encrypted
EBS	/dev/...	Create new snapshot fro...	8	EBS General Purpose SS...	3000		<input checked="" type="checkbox"/> Enable	<input type="checkbox"/> Enable
Add volume								

During the image creation process, Amazon EC2 creates a snapshot of each of the above volumes.

Tags - optional
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.

Tag image and snapshots together
Tag the image and the snapshots with the same tag.

Tag image and snapshots separately
Tag the image and the snapshots with different tags.

No tags associated with the resource.
[Add new tag](#)
You can add up to 50 more tags.

[Cancel](#) [Create image](#)

Submit EC2 EFS Assignment Images | EC2 | us-east-1

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EC2 AMIs

Amazon Machine Images (AMIs) (1/1) Info

Owned by me Find AMI by attribute or tag

Name	AMI ID	Source	Owner	Visibility
XYZ	ami-0424469be5ace6ce6	062250062838/XYZ	062250062838	Private
Unselect image: ami-0424469be5ace6ce6				

AMI ID: ami-0424469be5ace6ce6

Details Permissions Storage My AMI usage - new Tags

AMI ID ami-0424469be5ace6ce6	Image type machine	Platform details Linux/UNIX	Root device type EBS
AMI name XYZ	Owner account ID 062250062838	Architecture x86_64	Usage operation RunInstances
Root device name /dev/sda1	Status Pending	Source 062250062838/ami-0424469be5ace6ce6	Virtualization type hvm

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Images:visibility=owned-by-me

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EC2 > AMIs

Amazon Machine Images (AMIs) (1/1) Info

Owned by me Find AMI by attribute or tag

Name	AMI name	AMI ID	Source
XYZ	ami-0424469be5ace6ce6	062250062838/XYZ	

Actions ▾ Launch instance from AMI

Copy AMI Edit AMI permissions Request Spot Instances Manage tags Deregister AMI Manage AMI deregistration protection Change description Configure fast launch Manage AMI Deprecation Register instance store-backed AMI Disable AMI AMI usage - new

AMI ID: ami-0424469be5ace6ce6

Details Permissions Storage My AMI usage - new Tags

AMI ID	Image type	Platform details	Root device type
ami-0424469be5ace6ce6	machine	Linux/UNIX	EBS

AMI name	Owner account ID	Architecture	Usage operation
XYZ	062250062838	x86_64	RunInstances

Root device name	Status	Source	Virtualization type
/dev/sda1	Pending	062250062838/XYZ	HVM

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CopyImage:imageId=ami-0424469be5ace6ce6

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aws Search [Alt+S] United States (N. Virginia) VIKRAM

EC2 > AMIs > ami-0424469be5ace6ce6 > Copy AMI

AMI copy name

XYZ

AMI copy description

[Copied ami-0424469be5ace6ce6 from us-east-1] XYZ

Destination Region

A copy of the original AMI will be created in the destination Region.

United States (Oregon)

Copy tags
Includes your user-defined AMI tags when copying the AMI.

Time-based copy - new

Specify a completion duration for the snapshot copy operations of the associated snapshots. The completion duration applies to each associated snapshot individually. Additional costs apply. [Learn more](#)

Enable time-based copy

Encrypt EBS snapshots of AMI copy
Encrypts all snapshots in the AMI copy with the same key.

Tags - optional

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.

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aws Search [Alt+S] EC2 > AMIs

EC2 Dashboard EC2 Global View Events Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs AMI Catalog Elastic Block Store Volumes CloudShell Feedback

AMI copy operation for ami-0424469be5ace6ce6 initiated It can take a few minutes for the AMI to be copied. You can check the progress of the operation in the AMI list in us-west-2. The AMI ID of the new AMI is ami-0899943aff741cd22.

Amazon Machine Images (AMIs) (1/1) Info

Owned by me Find AMI by attribute or tag

Name	AMI name	AMI ID	Source	Owner	Visibility
XYZ	ami-0424469be5ace6ce6	062250062838/XYZ	062250062838	Private	

AMI ID: ami-0424469be5ace6ce6

Details Permissions Storage My AMI usage - new Tags

AMI ID	ami-0424469be5ace6ce6	Image type	machine	Platform details	Linux/UNIX	Root device type	EBS
AMI name	XYZ	Owner account ID	062250062838	Architecture	x86_64	Usage operation	RunInstances
Root device name	/dev/sda1	Status	Available	Source	ami-0424469be5ace6ce6	Virtualization type	hvm

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aws Search [Alt+S] EC2 > AMIs

EC2 Dashboard EC2 Global View Events Instances Instances Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs AMI Catalog Elastic Block Store Volumes CloudShell Feedback

AMI copy operation for ami-0424469be5ace6ce6 initiated It can take a few minutes for the AMI to be copied. You can check the progress of the operation in the AMI list in us-west-2. The AMI ID of the new AMI is ami-0899943aff741cd22.

Amazon Machine Images (AMIs) (1/1) Info

Owned by me Find AMI by attribute or tag

Name	AMI name	AMI ID	Source
XYZ	ami-0424469be5ace6ce6	062250062838/XYZ	

AMI ID: ami-0424469be5ace6ce6

Details Permissions Storage My AMI usage - new Tags

AMI ID	ami-0424469be5ace6ce6	Image type	machine	Platform details	Linux/UNIX	Root device type	EBS
AMI name	XYZ	Owner account ID	062250062838	Architecture	x86_64	Usage operation	RunInstances
Root device name	/dev/sda1	Status	Available	Source	ami-0424469be5ace6ce6	Virtualization type	hvm

United States

N. Virginia	us-east-1
Ohio	us-east-2
N. California	us-west-1
Oregon	us-west-2

Asia Pacific

Mumbai	ap-south-1
Osaka	ap-northeast-3
Seoul	ap-northeast-2
Singapore	ap-southeast-1
Sydney	ap-southeast-2
Tokyo	ap-northeast-1

Canada

Central	ca-central-1
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Europe

Frankfurt	eu-central-1
Ireland	eu-west-1

Manage Regions Manage Local Zones

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#image:visibility=owned-by-me

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aws Search [Alt+S] United States (Oregon) Account ID: 0622-5006-2838 VIKRAM

EC2 > AMIs

Amazon Machine Images (AMIs) (1/1) Info

Owned by me Actions ▾ Launch instance from AMI

Name	AMI name	AMI ID	Source	Owner	Visibility
<input checked="" type="checkbox"/> XYZ	XYZ	ami-0899943aff741cd22	062250062838/XYZ	062250062838	Private

AMI ID: ami-0899943aff741cd22

Details Permissions Storage My AMI usage - new Tags

AMI ID ami-0899943aff741cd22	Image type machine	Platform details Linux/UNIX	Root device type EBS
AMI name XYZ	Owner account ID 062250062838	Architecture x86_64	Usage operation RunInstances
Root device name /dev/sda1	Status Pending	Source ami-0899943aff741cd22	Virtualization type hvm

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us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#LaunchInstances ami-0899943aff741cd22

Required freshers a... Adobe Acrobat crowd-gen-contribu... GENCO TRANSCO D... Welocalize Applicant Login Recruitment Dashb... AWS Skill Builder WELCOME Account ID: 0622-5006-2838 VIKRAM

aws Search [Alt+S] United States (Oregon) Account ID: 0622-5006-2838 VIKRAM

EC2 > Instances > Launch an instance

It seems like you may be new to launching instances in EC2. Take a walkthrough to learn about EC2, how to launch instances and about best practices

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name Add additional tags

Application and OS Images (Amazon Machine Image) Info

An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose [Browse more AMIs](#).

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

AMI from catalog **My AMIs** **Quick Start**

Summary

Number of instances Info

Software Image (AMI) [Copied ami-0424469be5ace6ce6 ...read more ami-0899943aff741cd22

Virtual server type (instance type) t3.micro

Firewall (security group) New security group

Storage (volume) 1 volume(s) - 8 GiB

Cancel **Launch instance**

CloudShell Feedback PAK - UAE Game score © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 13:17 05-09-2025

Application and OS Images (Amazon Machine Image) [Info](#)

An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose [Browse more AMIs](#).

[AMI from catalog](#) [My AMIs](#) [Quick Start](#)

Name	XYZ Free tier eligible								
Description	[Copied ami-0424469be5ace6ce6 from us-east-1] XYZ								
Image ID	ami-0899943aff741cd22								
Username	root (Check with the AMI provider.)								
Published	2025-09-05T07:41:27.000Z	Architecture	x86_64	Virtualization	hvm	Root device type	ebs	ENI Enabled	Yes
Boot mode	UEFI								

[Browse more AMIs](#)
Including AMIs from AWS, Marketplace and the Community

[Cancel](#) [Launch instance](#) [Preview code](#)

Summary

Number of instances | [Info](#)

1

Software Image (AMI)
[Copied ami-0424469be5ace6ce6 ...[read more](#)
ami-0899943aff741cd22]

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

[Cancel](#) [Launch instance](#) [Preview code](#)

Instance type

t3.micro Free tier eligible

Family: t3 2 vCPU 1 GiB Memory Current generation: true
 On-Demand SUSE base pricing: 0.0104 USD per Hour
 On-Demand Ubuntu Pro base pricing: 0.0139 USD per Hour
 On-Demand Windows base pricing: 0.0196 USD per Hour
 On-Demand RHEL base pricing: 0.0392 USD per Hour On-Demand Linux base pricing: 0.0104 USD per Hour

[All generations](#) [Compare instance types](#)

Additional costs apply for AMIs with pre-installed software

Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

Default value ▾ [Create new key pair](#)

Network settings [Info](#)

[Network](#) [Info](#)

vpc-06381f583f044eadc

[Subnet](#) [Info](#)

No preference (Default subnet in any availability zone)

[Edit](#)

Summary

Number of instances | [Info](#)

1

Software Image (AMI)
[Copied ami-0424469be5ace6ce6 ...[read more](#)
ami-0899943aff741cd22]

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

[Cancel](#) [Launch instance](#) [Preview code](#)

▼ Network settings [Info](#)

Network [Info](#)
vpc-06381f583f044eadc

Subnet [Info](#)
No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)
Enable

Firewall (security groups) [Info](#)
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

[Create security group](#) [Select existing security group](#)

We'll create a new security group called 'launch-wizard-2' with the following rules:

Allow SSH traffic from Anywhere
Helps you connect to your instance

Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server

Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only. [X](#)

▼ Summary

Number of instances [Info](#)
1

Software Image (AMI)
[Copied ami-0424469be5ace6ce6 ...[read more](#)
ami-0899943aff741cd22

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

[Cancel](#) [Launch instance](#) [Preview code](#)



⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only. [X](#)

▼ Configure storage [Info](#)

Advanced

1x 8 GiB gp3 [▼](#) Root volume, 3000 IOPS, Not encrypted

[Add new volume](#)

Click refresh to view backup information [C](#)

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

▼ Summary

Number of instances [Info](#)
1

Software Image (AMI)
[Copied ami-0424469be5ace6ce6 ...[read more](#)
ami-0899943aff741cd22

Virtual server type (instance type)
t3.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

[Cancel](#) [Launch instance](#) [Preview code](#)



us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#instances:

Required freshers a... Adobe Acrobat crowd-gen-contribu... GENCO TRANSO D... Welocalize Applicant Login Recruitment Dashb... AWS Skill Builder WELCOME

aws Search [Alt+S]

Last updated less than a minute ago Connect Instance state Actions Launch instances

Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
ec2 2	i-0fad6a538fc311867	Running	t3.micro	Initializing	View alarms +	us-west-2a	ec2-35-162-

i-0fad6a538fc311867 (ec2 2)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0fad6a538fc311867	35.162.84.244 open address	172.31.44.111
IPv6 address	Instance state	Public DNS
-	Running	ec2-35-162-84-244.us-west-2.compute.amazonaws.com

CloudShell Feedback

Sports headline: World Cup Quali...

ENG IN 13:19 05-09-2025

us-west-2.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-0fad6a538fc311867&osUser=root®ion=us-west-2&sshPort=22

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aws Search [Alt+S]

[root@ip-172-31-44-111 ~]#

Amazon Linux 2023

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

i-0fad6a538fc311867 (ec2 2)

PublicIPs: 35.162.84.244 PrivateIPs: 172.31.44.111

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Task 3: Build two EBS volumes and attach them to the instance in US-East-1

Steps taken:

1. Switch back to US-East-1 region.
2. Go to EC2 → Volumes → Create volume.
3. Set size (e.g., 8 GB) → Availability Zone must match your instance AZ.
4. Repeat to create another volume.
5. Select first volume → Actions → Attach volume → Choose your EC2 instance.
6. Repeat for second volume.

Screenshot:

The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with options like 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 Elastic Block Store (Volumes). The main content area displays a table titled 'Instances (1) Info'. It shows one instance named 'efs' with the ID 'i-01bc3d45ab4716339', which is 'Running'. The instance type is 't3.micro', status check is '3/3 checks passed', and it's in the 'us-east-1a' availability zone. A 'Launch instances' button is at the top right of the table. Below the table, there's a section titled 'Select an instance' with a dropdown menu.

The screenshot shows the AWS EBS Volumes page. On the left, there's a navigation sidebar with options like Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images (AMIs, AMI Catalog), and Elastic Block Store (Volumes, Snapshots, Lifecycle Manager). The main content area displays a table titled 'Volumes (2) Info'. It shows two volumes: 'vol-03af1b226c62eade2' and 'vol-0f9c44b1afabaa9a7', both of which are 'gp3' type, 8 GiB in size, with 3000 IOPS and 125 throughput. They were created on 2025/09/05 at 12:58 GMT+5:30 and 13:22 GMT+5:30 respectively. A success message at the top says 'Successfully created volume vol-0f9c44b1afabaa9a7.' Below the table, there's a section titled 'Fault tolerance for all volumes in this Region' with a 'Snapshot summary' table. The summary shows 1/1 recently backed up volumes / Total # volumes. It also mentions the 'Data Lifecycle Manager default policy for EBS Snapshots status'.

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

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aws Search [Alt+S] United States (N. Virginia) VIKRAM

Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
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

Volumes (1/2) Info

Successfully created volume vol-0f9c44b1afabaa9a7.

Last updated less than a minute ago Actions Create volume

	Name	Volume ID	Type	Size	IOPS	Throughput
vol-03af1b226c62eade2	gp3	8 GiB	3000	125		
vol-0f9c44b1afabaa9a7	gp3	8 GiB	3000	125		

Volume ID: vol-0f9c44b1afabaa9a7

Details Status checks Monitoring Tags

Volume ID vol-0f9c44b1afabaa9a7	Size 8 GiB	Type gp3	Status check Okay
AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more	Volume state Available	IOPS 3000	Throughput 125
Fast snapshot restored No	Availability Zone us-east-1a	Created Fri Sep 05 2025 13:22:53 GMT+0530 (India Standard Time)	Multi-Attach enabled No

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AttachVolume:volumeId=vol-0f9c44b1afabaa9a7/

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EC2 > Volumes > vol-0f9c44b1afabaa9a7 > 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-0f9c44b1afabaa9a7

Availability Zone
us-east-1a

Instance
i-01bc3d45ab4716339 (efs) (running)

Device name
/dev/sdb

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

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.

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aws Search [Alt+S] United States (N. Virginia) ▾ Actions Create volume

Savings Plans
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Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Load Balancers

Successfully attached volume vol-0f9c44b1afabaa9a7 to instance i-01bc3d45ab4716339.

Volumes (2) Info Last updated less than a minute ago Actions Create volume

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created
vol-03af1b226c62eade2	gp3	8 GiB	3000	125	snapshot-0f9367e...	2025/09/05 12:58 GMT+5:...	
vol-0f9c44b1afabaa9a7	gp3	8 GiB	3000	125	-	2025/09/05 13:22 GMT+5:...	

Fault tolerance for all volumes in this Region

Snapshot summary Last updated on Fri, Sep 05, 2025, 01:21:46 PM (GMT+05:30)

Recently backed up volumes / Total # volumes 1 / 1 Data Lifecycle Manager default policy for EBS Snapshots status No default policy set up | Create policy

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Last updated less than a minute ago Connect Instance state Actions Launch instances

Find Instance by attribute or tag (case-sensitive) All states

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
efs	i-01bc3d45ab4716339	Running	t3.micro	3/3 checks passed	View alarms +	us-east-1a	ec2-13-220
ec2 1	i-0f9693721a5f94e0d	Terminated	t3.micro	-	View alarms +	us-east-1a	-

i-01bc3d45ab4716339 (efs)

Filter block devices

Volume ID	Device name	Volume size (GiB)	Volume State	Attachment status	Attachment time	Encr
vol-03af1b226c62eade2	/dev/xvda	8	In-use	Attached	2025/09/05 12:58 GMT+5:30	No
vol-0f9c44b1afabaa9a7	/dev/sdb	8	In-use	Attached	2025/09/05 13:24 GMT+5:30	No

Volume monitoring (1)

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

Steps taken:

1. Select one of the volumes → Actions → Detach volume.
2. Delete the detached volume by going into the actions
3. For the remaining volume → Actions → Modify volume.
4. Change size (e.g., 8 GB → 12 GB) → Save changes.

Screenshot:

The screenshot shows the AWS EC2 Volumes page. There are two volumes listed:

Name	Type	Size	IOPS	Throughput
vol-03af1b226c62eade2	gp3	8 GiB	3000	125
vol-0f9c44b1afabaa9a7	gp3	8 GiB	3000	125

A context menu is open over the second volume, showing options like 'Modify volume', 'Create snapshot', 'Delete volume', 'Attach volume', 'Detach volume', 'Force detach volume', 'Manage auto-enabled I/O', 'Manage tags', and 'Fault injection'. The 'Detach volume' option is highlighted.

The screenshot shows the AWS EC2 Volumes page again. The second volume is now detached and its status is 'Available'.

Name	Type	Size	IOPS	Throughput
vol-03af1b226c62eade2	gp3	8 GiB	3000	125
vol-0f9c44b1afabaa9a7	gp3	8 GiB	3000	125

A context menu is open over the second volume, showing options like 'Modify volume', 'Create snapshot', 'Delete volume', 'Attach volume', 'Detach volume', 'Force detach volume', 'Manage auto-enabled I/O', 'Manage tags', and 'Fault injection'. The 'Delete volume' option is highlighted.

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

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Successfully detached volume.

Volumes (1/2) Info Last updated less than a minute ago Actions Create volume

Saved filter sets Choose filter set Search

Name	Type	Size	IOPS	Throughput	Snapshot ID	Created
vol-03af1b226c62eade2	gp3	8 GiB	3000	125	snap-0f9367e...	2025/09/05 12:58 GMT+5:...
vol-0f9c44b1afabaa9a7	gp3	8 GiB	3000	125	snap-0f9367e...	2025/09/05 13:22 GMT+5:...

Delete vol-0f9c44b1afabaa9a7?

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-0f9c44b1afabaa9a7?

To confirm deletion, type **delete** in the field.

delete

Cancel Delete

Volume ID: vol-0f9c44b1afabaa9a7

Details Status checks Monitoring

Volume ID	Size	Type	Volume state	IOPS	Throughput	Created	Multi-Attach enabled
vol-0f9c44b1afabaa9a7	8 GiB	gp3	Available	3000	125	Fri Sep 05 2025 13:22:53 GMT+0530 (India Standard Time)	No

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

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Successfully deleted volume vol-0f9c44b1afabaa9a7.

Volumes (1/1) Info Last updated less than a minute ago Actions Create volume

Saved filter sets Choose filter set Search

Name	Type	Size	IOPS	Throughput	Snapshot ID	Created
vol-03af1b226c62eade2	gp3	8 GiB	3000	125	snap-0f9367e...	2025/09/05 12:58 GMT+5:...

Volume ID: vol-03af1b226c62eade2

Details Status checks Monitoring Tags

Volume ID	Size	Type	Status check
vol-03af1b226c62eade2	8 GiB	gp3	Okay

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

Volume state In-use

IOPS 3000

Throughput 125

Fast snapshot restored No

Availability Zone us-east-1a

Created Fri Sep 05 2025 12:58:12 GMT+0530 (India Standard Time)

Multi-Attach enabled No

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

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All Bookmarks Account ID: 0622-5006-2838 VIKRAM United States (N. Virginia)

Search [Alt+S]

Successfully deleted volume vol-0f9c44b1afabaa9a7.

Volumes (1/1) Info

Last updated less than a minute ago Actions Create volume

Modify volume

Choose filter set Search

Name	Volume ID	Type	Size	IOPS	Throughput
vol-03af1b226c62eade2	gp3	8 GiB	3000	125	

Volume ID: vol-03af1b226c62eade2

Details Status checks Monitoring Tags Fault injection

Volume ID vol-03af1b226c62eade2	Size 8 GiB	Type gp3	Status check Okay
AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more	Volume state in-use	IOPS 3000	Throughput 125
Fast snapshot restored No	Availability Zone us-east-1a	Created Fri Sep 05 2025 12:58:12 GMT+0530 (India Standard Time)	Multi-Attach enabled No

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EC2 > Volumes > vol-03af1b226c62eade2 > Modify volume

Modify volume Info

Modify the type, size, and performance of an EBS volume.

Volume details

Volume ID
vol-03af1b226c62eade2

Volume type | Info
General Purpose SSD (gp3)

Size (GiB) | Info
10

Min: 1 GiB, Max: 16384 GiB.

IOPS | Info
3000

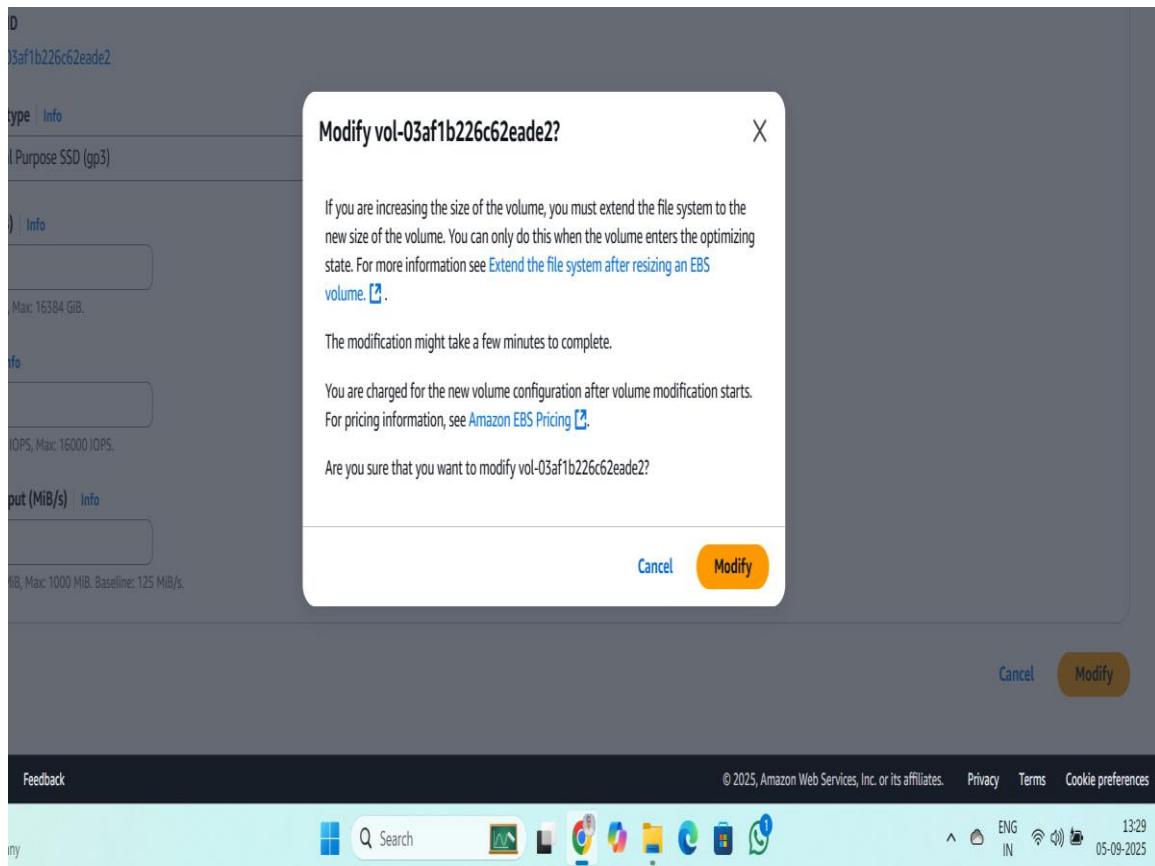
Min: 3000 IOPS, Max: 16000 IOPS.

Throughput (MiB/s) | Info
125

Min: 125 MiB, Max: 1000 MiB. Baseline: 125 MiB/s.

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The screenshot shows the AWS Management Console interface for the Elastic Block Store (EBS) service. The top navigation bar includes links for Required freshers, Adobe Acrobat, crowd-gen-contributor, GENCO TRANSICO D..., Welocalize, Applicant Login, Recruitment Dashb..., AWS Skill Builder, WELCOME, and All Bookmarks. The account ID is 0622-5006-2838. The region is United States (N. Virginia).

The left sidebar shows navigation links for Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images (AMIs, AMI Catalog), and Elastic Block Store (Volumes, Snapshots, Lifecycle Manager). The "Volumes" section is currently selected.

A blue banner at the top of the main content area states: "Requested volume modification for volume vol-03af1b226c62eade2. The volume is being modified."

The main content area displays a table titled "Volumes [1/1]". The table has columns for Name, Volume ID, Type, Size, IOPS, Throughput, Snapshot ID, and Created. One row is shown for the volume with the following details:

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created
vol-03af1b226c62eade2	gp3	10 GiB	3000	125	snap-0f9367e...	2025/09/05 12:58 GMT+5:...	us

Below the table, a detailed view for "Volume ID: vol-03af1b226c62eade2" is shown. The "Details" tab is selected. The table contains the following data:

Volume ID	Size	Type	Status check
vol-03af1b226c62eade2	10 GiB	gp3	Okay
AWS Compute Optimizer finding	Volume state	IOPS	Throughput
Opt-in to AWS Compute Optimizer for recommendations. Learn more	In-use - optimizing (1%)	3000	125
Fast snapshot restored	Availability Zone	Created	Mult
No	us-east-1a	Fri Sep 05 2025 12:58:12 GMT+0530	No

At the bottom of the page, there are CloudShell and Feedback links, along with a footer containing the copyright notice "© 2025, Amazon Web Services, Inc. or its affiliates.", the language "ENG IN", the date "05-09-2025", and the time "13:30".

Task 5: Take backup of this EBS volume

Steps taken:

1. Select the remaining volume → Actions → Create snapshot.
2. Provide description (e.g. manual backup) and create snapshot.
3. Go to Snapshots → verify status.

Screenshot:

The screenshot shows the AWS Management Console with the EBS service selected. On the left, the navigation pane includes options like Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, and Elastic Block Store (selected). Under EBS, Volumes and Snapshots are listed. Below the navigation is a search bar and a toolbar with CloudShell, Feedback, and other icons. The main content area displays a message: "Requested volume modification for volume vol-03af1b226c62eade2. The volume is being modified." A table titled "Volumes (1/1)" lists the volume details: Name (vol-03af1b226c62eade2), Volume ID (vol-03af1b226c62eade2), Type (gp3), Size (10 GiB), IOPS (3000), Throughput (125). To the right, a context menu is open under the "Actions" button, showing options like Modify volume, Create snapshot (highlighted), Create snapshot lifecycle policy, Delete volume, Attach volume, Detach volume, Force detach volume, Manage auto-enabled I/O, Manage tags, and Fault injection. Below the table, a detailed view for the volume shows its configuration: Volume ID (vol-03af1b226c62eade2), Size (10 GiB), Type (gp3), Volume state (In-use - optimizing (1%)), IOPS (3000), Availability Zone (us-east-1a), Created (Fri Sep 05 2025 12:58:12 GMT+0530), and Multi-Attach enabled (No). The status check is shown as "Okay". The bottom of the screen shows the AWS footer with copyright information and a date of 05-09-2025.

The screenshot shows the "Create snapshot" wizard. The first step, "Source volume", shows the selected volume ID (vol-03af1b226c62eade2) and its availability zone (us-east-1a). The second step, "Snapshot details", allows adding a description (e.g., "manual backup") and selecting encryption. The third step, "Tags", provides information about tags and their purpose. The bottom of the screen shows the AWS footer with copyright information and a date of 05-09-2025.

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

Images AMIs AMI Catalog

Elastic Block Store Volumes Snapshots Lifecycle Manager

Network & Security Security Groups Elastic IPs Placement Groups Key Pairs

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Successfully created snapshot snap-0fc47cf5cd19c2360 from volume vol-03af1b226c62eade2. If you need your snapshot to be immediately available consider using Fast Snapshot Restore. Manage fast snapshot restore X

Volumes (1) Info Last updated less than a minute ago Actions Create volume

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created
vol-03af1b226c62eade2	gp3	10 GiB	3000	125		snap-0f9367e...	2025/09/05 12:58 GMT+5:...

Fault tolerance for all volumes in this Region

Snapshot summary Last updated on Fri, Sep 05, 2025, 01:21:46 PM (GMT+05:30)

Recently backed up volumes / Total # volumes 1 / 1 Data Lifecycle Manager default policy for EBS Snapshots status No default policy set up | Create policy

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Snapshots (1/1) Info Last updated less than a minute ago Recycle Bin Actions Create snapshot

Name	Snapshot ID	Full snapshot size	Volume size	Description	Storage tier	Snapshot status
vol-03af1b226c62eade2	snap-0fc47cf5cd19c2360	1.55 GiB	10 GiB	manual backup	Standard	Completed

Snapshot ID: snap-0fc47cf5cd19c2360

Details Snapshot settings Storage tier Tags

Snapshot ID snap-0fc47cf5cd19c2360	Full snapshot size 1.55 GiB	Progress 100%	Snapshot status Completed
Owner 062250062838	Started Fri Sep 05 2025 13:32:40 GMT+0530 (India Standard Time)	Product codes -	Fast snapshot restore -
Description manual backup			

Conclusion

Successfully created Linux-based web servers in two regions, configured EBS volumes, performed attach/detach/extend operations, and took backup via snapshot as per requirements.