

4) Launch 1 EC2 instance and try to attach the EBS volume of (4 GiB) with it. After that remove the EBS volume and then. detach it from the EC2. Also take the snapshot of the EBS before detaching (20 marks)

Launch instance

The screenshot shows the AWS Management Console 'Launch an instance' page. The browser address bar shows the URL: `us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:`. The page is titled 'Launch an instance' and includes a 'Summary' sidebar on the right.

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 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.

Recents **Quick Start**

Amazon Linux	macOS	Ubuntu	Windows	Red Hat	SUSE Linux

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

Amazon Machine Image (AMI)
Ubuntu Server 24.04 LTS (HVM), SSD Volume Type
ami-0866a3c8b686ae6ba (64-bit (x86_64)) / ami-01254902740779ac5 (64-bit (ARM))
Virtualization: hvm ENA enabled: true Root device type: ebs
Free tier eligible

Description

Summary
[Number of Instances](#) | [Info](#)
1

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd64...[read more](#)
ami-0866a3c8b686ae6ba

Virtual server type (Instance type)
t2.micro

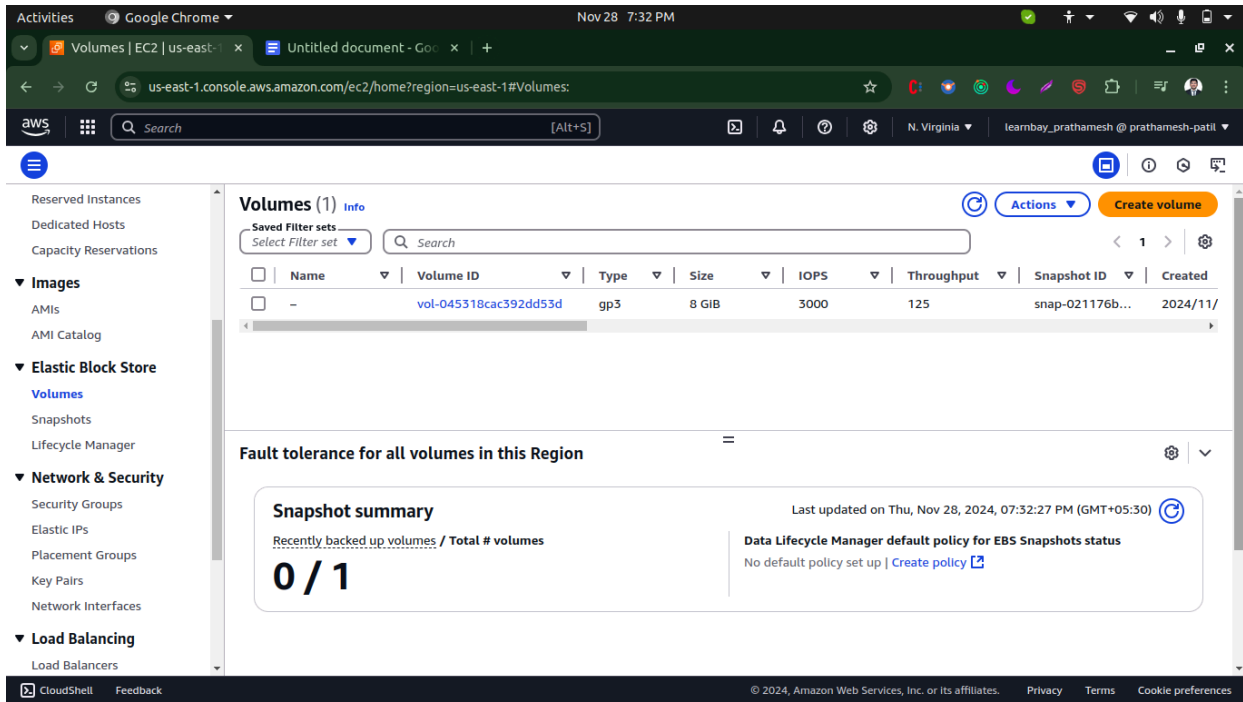
Firewall (security group)
New security group

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

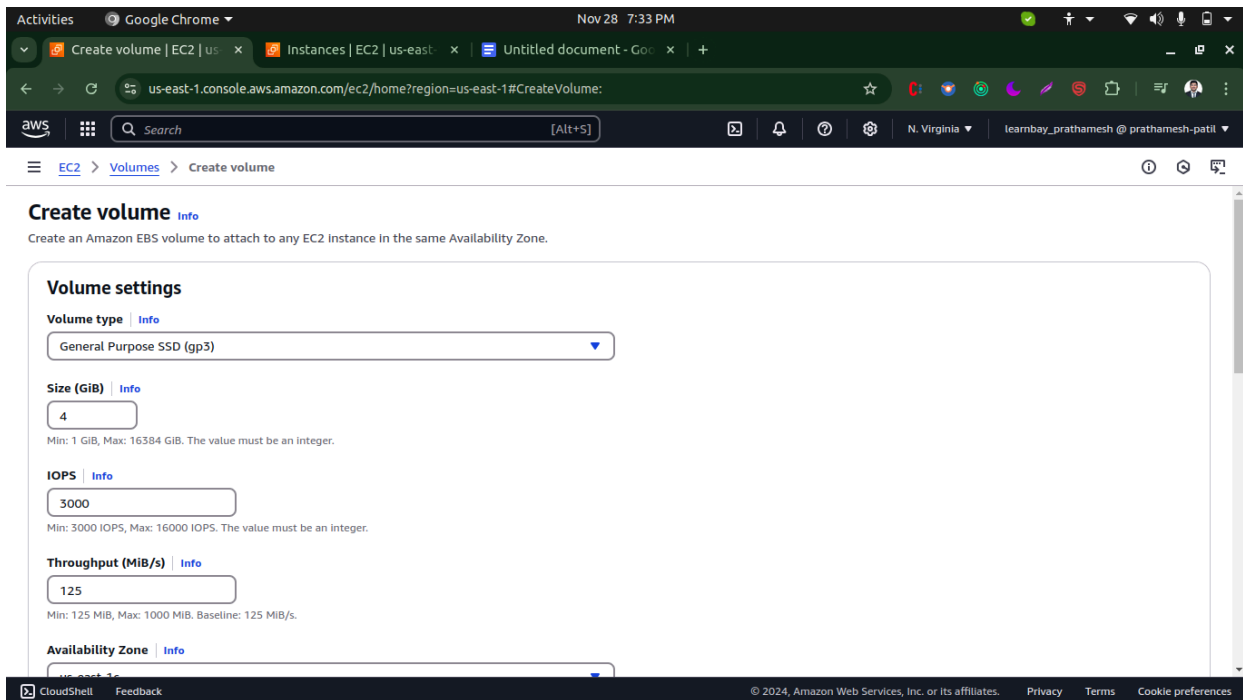
Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

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

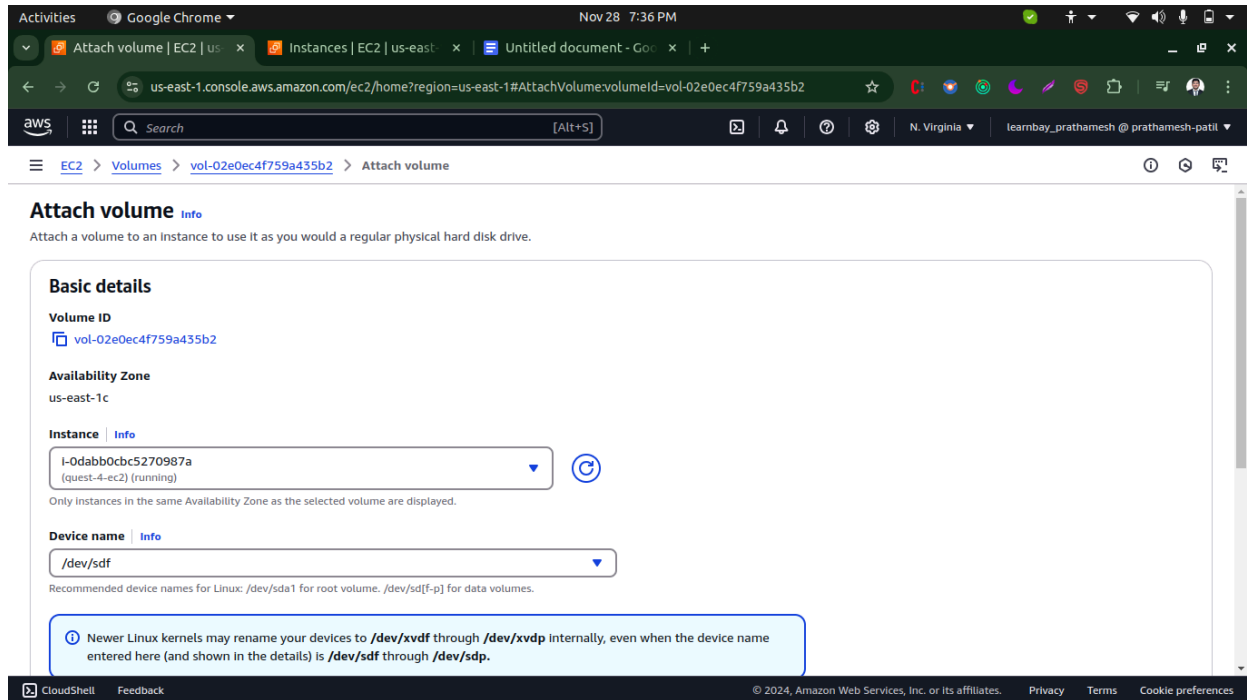
Check default volumes



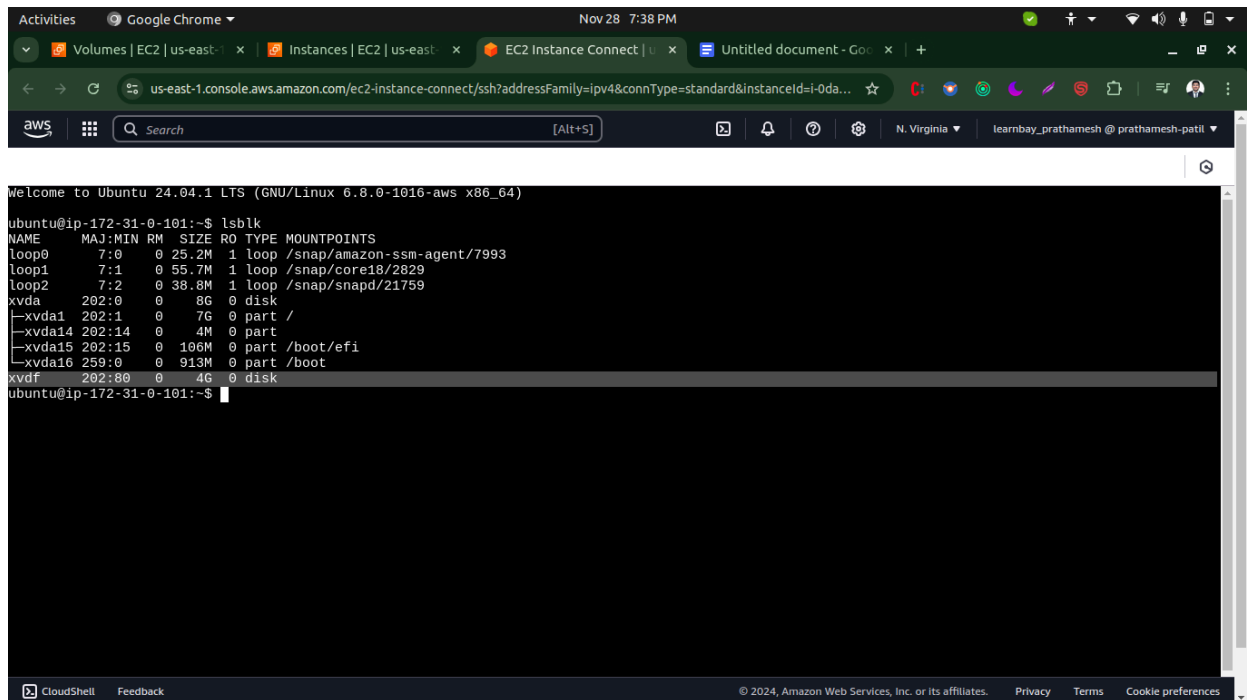
Create new ebs volume of 4GB



Now select that created volume and click on actions button → click on attach volume



Once attached, verify in ec2 instance using **lsblk** command



Now create snapshot in snapshot tab

Activities Google Chrome Nov 28 7:39 PM

Volumes | EC2 | us-east-1 | Instances | EC2 | us-east-1 | EC2 Instance Connect | ... | Untitled document - Google Docs

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

Successfully created snapshot snap-0e7ec8bbe1c214d from volume vol-02e0ec4f759a435b2. If you need your snapshot to be immediately available consider using Fast Snapshot Restore.

Manage fast snapshot restore

Volumes (1/2) info

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

Alarm status
No alarms
No alarms

Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID	Created	Availability Zone
-	vol-02e0ec4f759a435b2	gp3	4 GiB	3000	125	-	2024/11/28 19:33 GMT+5:30	us-east-1c
-	vol-045318cac392dd53d	gp3	8 GiB	3000	125	snap-021176b...	2024/11/28 19:32 GMT+5:30	us-east-1c

Volume ID: vol-02e0ec4f759a435b2

Details Status checks Monitoring Tags

Volume ID
vol-02e0ec4f759a435b2

Size
4 GiB

Type
gp3

Volume status
Insufficient data

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

IOPS
3000

Throughput
125

Fast snapshot restored
No

Availability Zone
us-east-1c

Created
Thu Nov 28 2024 19:33:48 GMT+0530 (India Standard Time)

Multi-Attach enabled
No

Attached resources
l-0dabb0cb5270987a (quest-4-ec2); /dev/sdf (attached)

Outposts ARN
-

Managed
false

Operator
-

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Create snapshot

Activities Google Chrome Nov 28 7:38 PM

Create snapshot | EC2 | us-east-1 | Instances | EC2 | us-east-1 | EC2 Instance Connect | ... | Untitled document - Google Docs

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateSnapshotFromVolume:volumeId=vol-02e0ec4f759a435b2

EC2 > Volumes > vol-02e0ec4f759a435b2 > Create snapshot

Create snapshot info

Create a point-in-time snapshot to back up the data on an Amazon EBS volume to Amazon S3.

Source volume

Volume ID
vol-02e0ec4f759a435b2

Availability Zone
us-east-1c

Snapshot details

Description
Add a description for your snapshot.
quest-4 ebs snapshot
255 characters maximum.

Encryption info
Not encrypted

Tags 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.

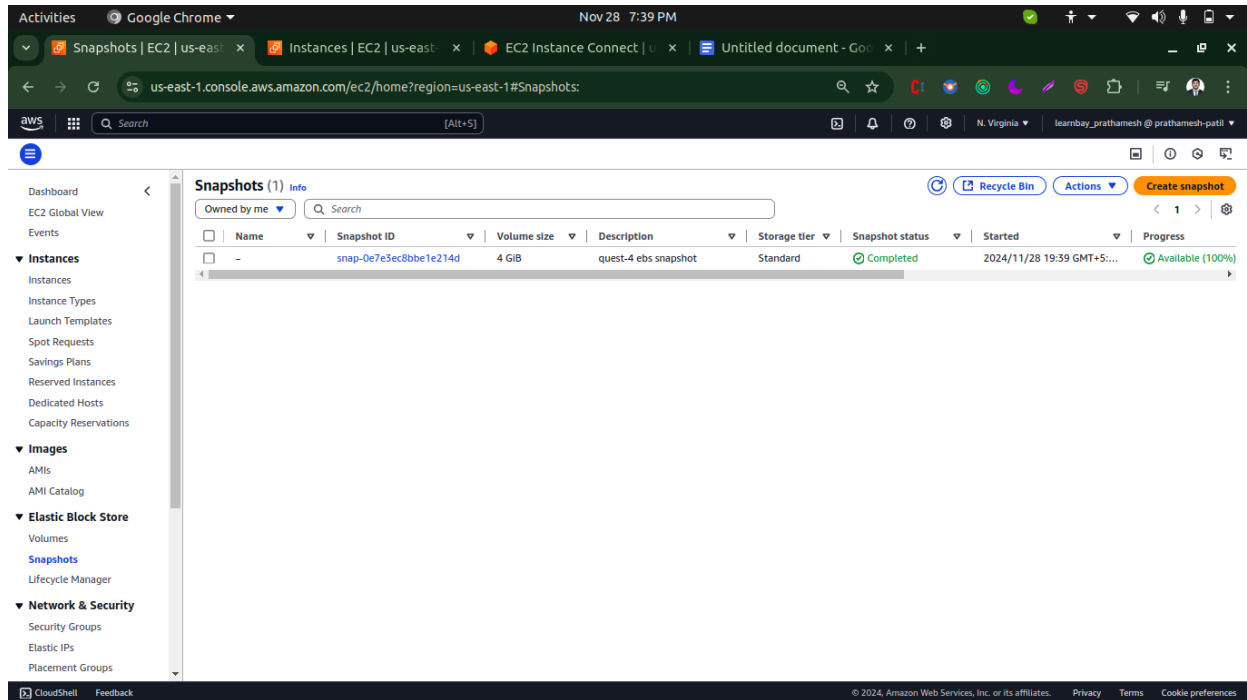
No tags associated with the resource.

Add tag
You can add 50 more tags.

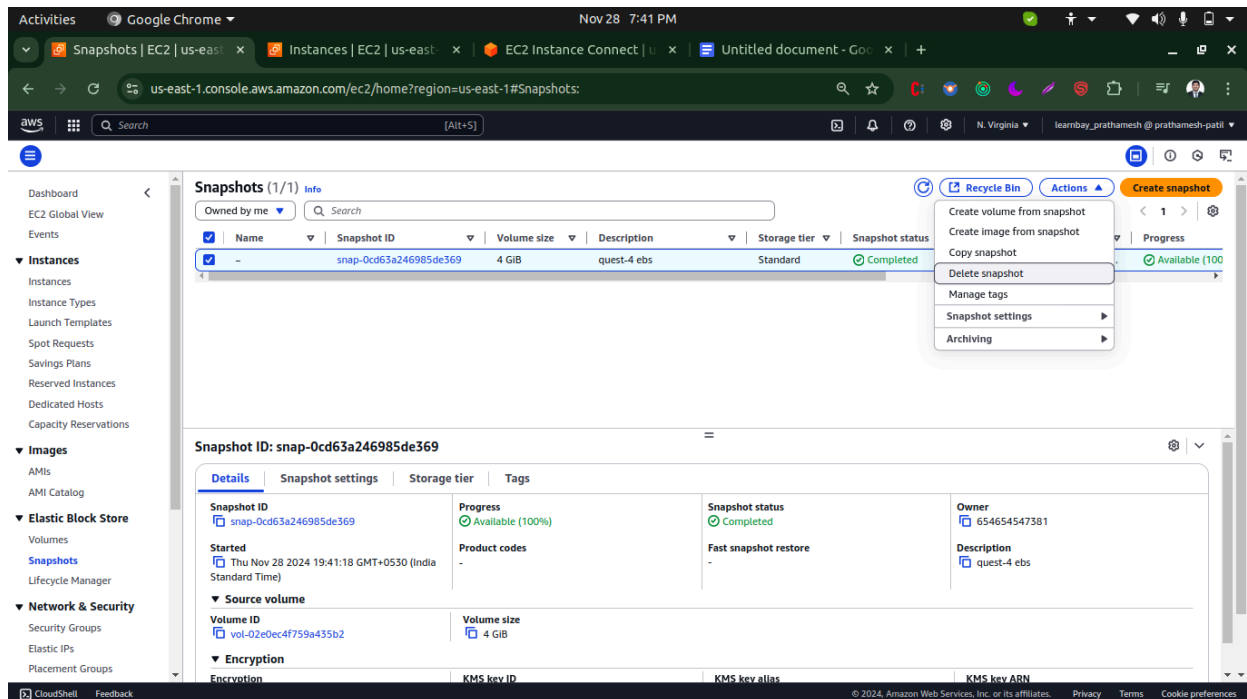
Cancel Create snapshot

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Now verify



Detach process:
First Delete snapshot



Then comes to volumes tab, and click on detach volume

Volumes (1/2) Info

Saved filter sets
Choose filter set

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot ID
<input checked="" type="checkbox"/>	-	vol-02e0ec4f759a435b2	gp3	4 GiB	3000	125	-
<input type="checkbox"/>	-	vol-045318cac392dd53d	gp3	8 GiB	3000	125	snap-021176b...

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-02e0ec4f759a435b2

Details | Status checks | Monitoring | Tags

Volume ID vol-02e0ec4f759a435b2 AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommended instances. Learn more	Size 4 GiB Volume state Available	Type gp3 IOPS 3000	Volume status Okay Throughput 125
Fast snapshot restored No	Availability Zone us-east-1c	Created Thu Nov 28 2024 19:33:48 GMT+0530 (India Standard Time)	Multi-Attach enabled No
Attached resources -	Outposts ARN -	Managed false	Operator -

Now stop instance

The screenshot displays the AWS Management Console interface. At the top, the browser address bar shows the URL: `us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceState=running`. The console header includes the AWS logo, a search bar, and the user's profile information (N. Virginia, learnbay_prathamesh @ prathamesh-patl).

The main content area is titled "Instances (1/1) Info". It features a search bar with the placeholder text "Find Instance by attribute or tag (case-sensitive)". Below the search bar, there are filters for "Instance state = running" and "Clear filters". A table lists the instances, with the following details visible for the instance `quest-4-ec2` (ID: `i-0dabb0cbc5270987a`):

Instance state	Instance type	Status	Availability Zone	Public IP
Running	t2.micro	2/2	us-east-1c	ec2-3-84-152-166.compute-1.amazonaws.com

A dropdown menu is open for the "Instance state" column, showing options: "Stop instance", "Start instance", "Reboot instance", "Hibernate instance", and "Terminate (delete) instance".

Below the instance list, the details for the selected instance `i-0dabb0cbc5270987a (quest-4-ec2)` are shown. The "Details" tab is active, displaying the "Instance summary" which includes:

- Instance ID:** `i-0dabb0cbc5270987a`
- Public IPv4 address:** `3.84.152.166` (with an "open address" link)
- Private IPv4 addresses:** `172.31.0.101` (with an "open address" link)
- Instance state:** Running
- Public IPv4 DNS:** `ec2-3-84-152-166.compute-1.amazonaws.com` (with an "open address" link)
- Private IP DNS name (IPv4 only):** `ip-172-31-0-101.ec2.internal` (with an "open address" link)
- IPV4 address:** -
- Hostname type:** IP name: `ip-172-31-0-101.ec2.internal`

The left sidebar contains navigation links for Dashboard, EC2 Global View, Events, Instances, 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, and Placement Groups.