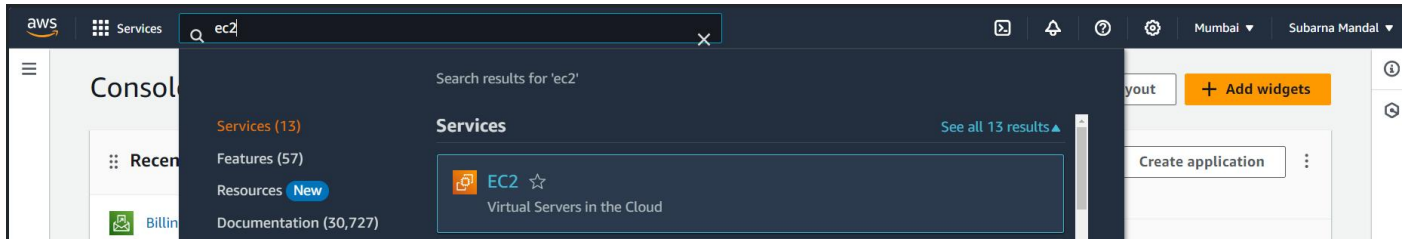


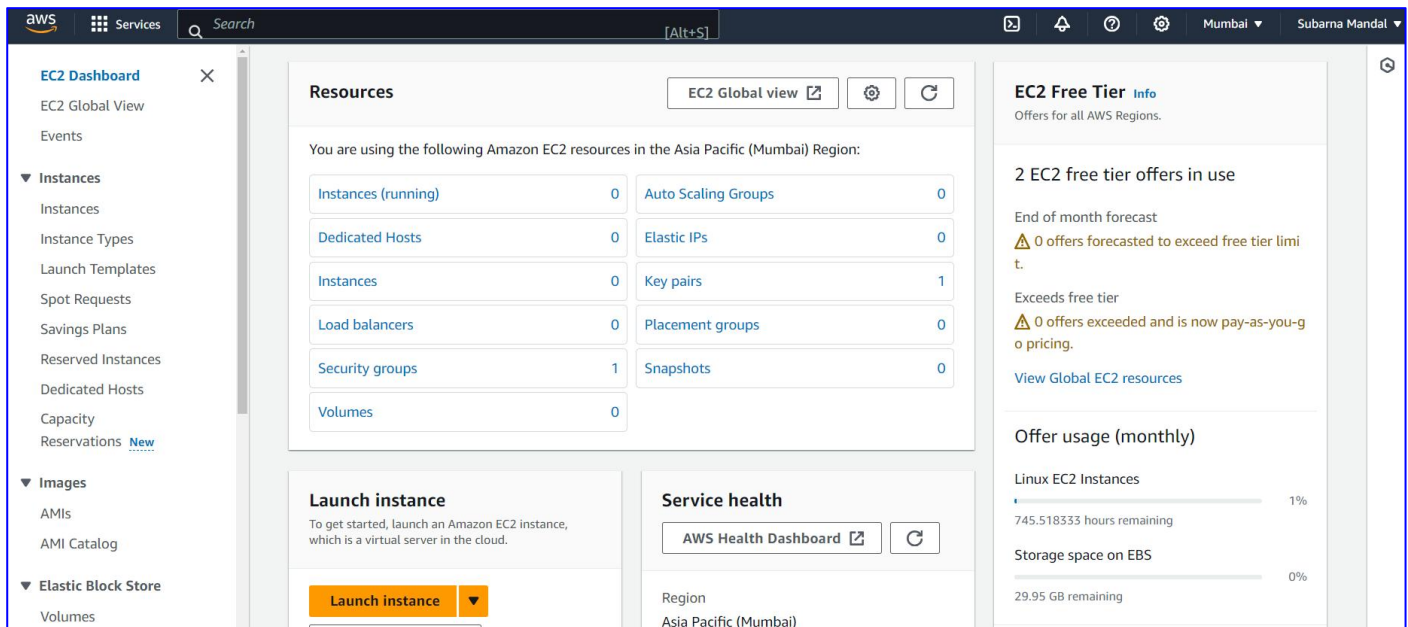
Assignment : 14

Problem Statement : Create an Elastic IP for an instance.

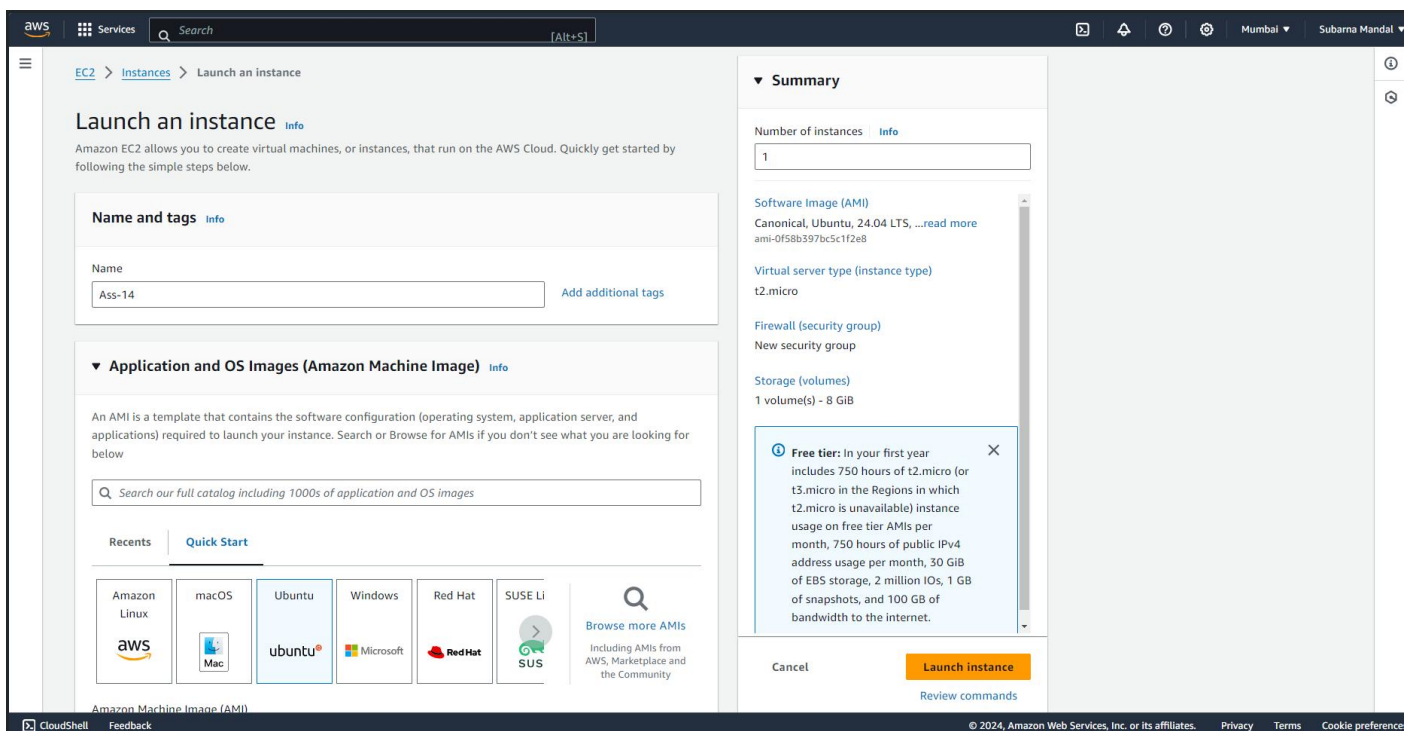
Step : 1 Open the AWS console, search EC2, and select the first option listed.



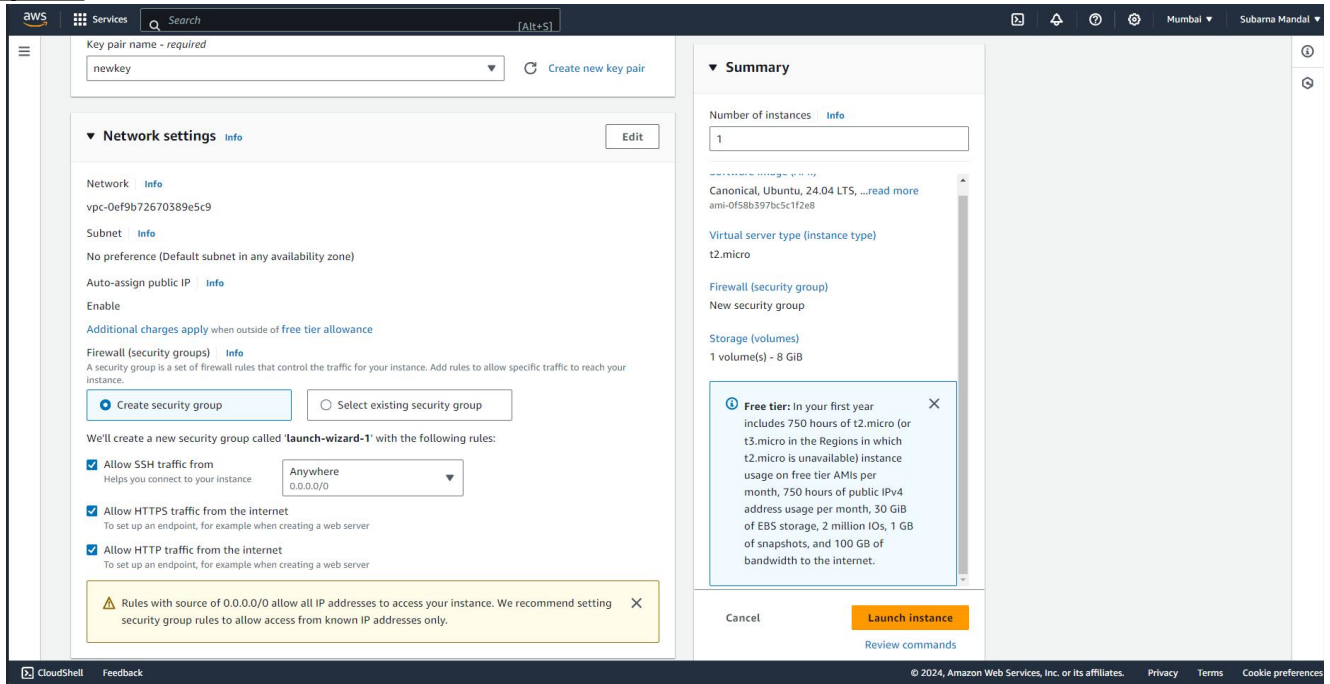
Step : 2 Select the "Launch Instance" button.



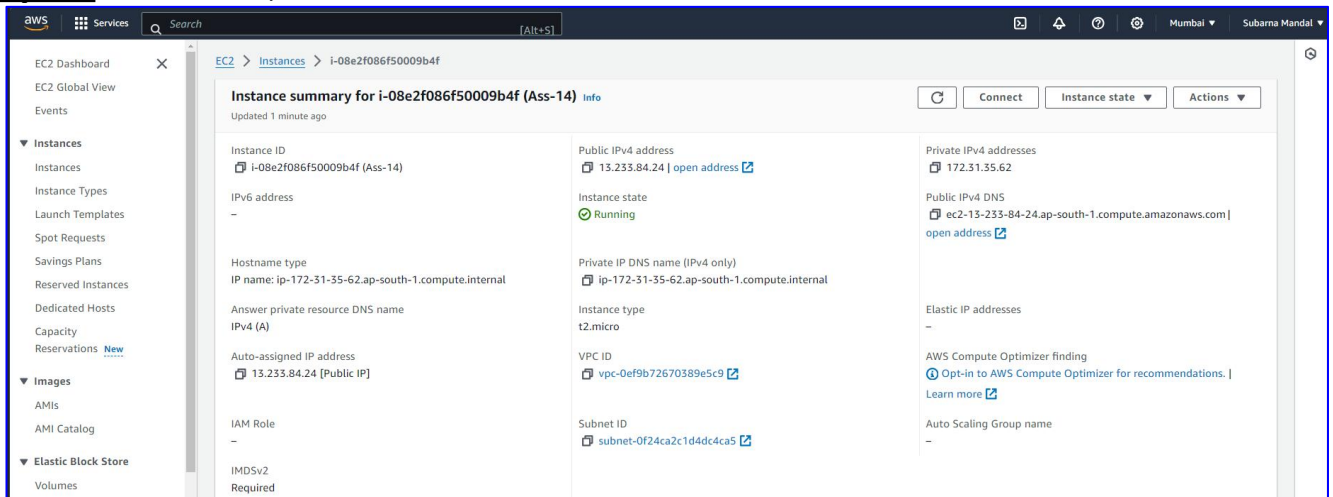
Step : 3 Enter a suitable name for your instance. For instance, we have named it "Ass-14". Then Select Ubuntu from the list of available AMIs.



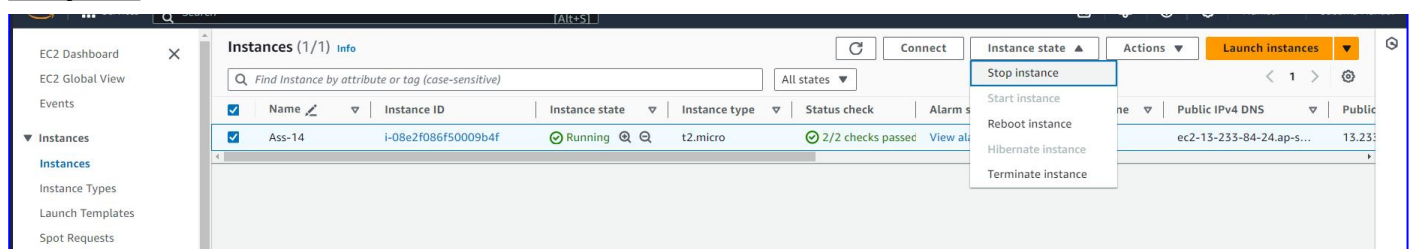
Step : 4 Select the checkboxes for SSH, HTTP, and HTTPS protocols. Proceed to click on “Launch instance”.



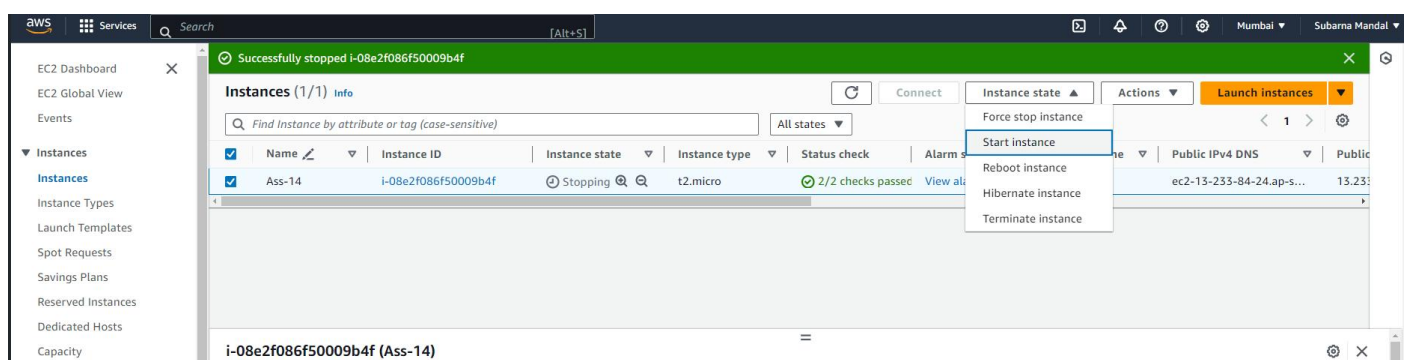
Step : 5 To view the public IPv4 address, click on the instance ID.



Step : 6 Select the instance, go to "Instance State," and choose to stop the instance.



Step : 7 Once the instance is stopped, proceed to start the instance again.



Step : 8 After restarting the instance, you will notice that the IPv4 address has changed .

Instance summary for i-08e2f086f50009b4f (Ass-14) info

Updated less than a minute ago

Instance ID i-08e2f086f50009b4f (Ass-14)	Public IPv4 address 65.0.204.191 open address	Private IPv4 addresses 172.31.35.62
IPv6 address -	Instance state Pending	Public IPv4 DNS ec2-65-0-204-191.ap-south-1.compute.amazonaws.com open address
Hostname type IP name: ip-172-31-35-62.ap-south-1.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-35-62.ap-south-1.compute.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
Auto-assigned IP address 65.0.204.191 [Public IP]	VPC ID vpc-0ef9b72670389e5c9	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-0f24ca2c1d4dc4ca5	
IMDSv2 Required		

Step : 9 Next, we will associate this instance with an Elastic IP.

Resources

You are using the following Amazon EC2 resources in the Asia Pacific (Mumbai) Region:

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

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

[Launch instance](#) [Migrate a server](#)

Note: Your instances will launch in the Asia Pacific (Mumbai) Region

Instance alarms

[View in CloudWatch](#)

0 in alarm 0 OK 0 insufficient data

Service health

[AWS Health Dashboard](#)

Region: Asia Pacific (Mumbai)

Status: This service is operating normally.

Zones

Zone name	Zone ID
ap-south-1a	aps1-az1
ap-south-1b	aps1-az3
ap-south-1c	aps1-az2

EC2 Free Tier

Offers for all AWS Regions.

2 EC2 free tier offers in use

End of month forecast
0 offers forecasted to exceed free tier limit.

Exceeds free tier
0 offers exceeded and is now pay-as-you-go pricing.

[View Global EC2 resources](#)

Offer usage (monthly)

Linux EC2 Instances
745.518333 hours remaining 1%

Storage space on EBS
29.95 GB remaining 0%

[View all AWS Free Tier offers](#)

Account attributes

[Default VPC](#)
vpc-0ef9b72670389e5c9

Settings
[Data protection and security](#)

Step : 10 Select “Allocate Elastic IP Address” button.

Elastic IP addresses

[Find resources by attribute or tag](#)

[Allocate Elastic IP address](#)

Name	Allocated IPv4 address	Type	Allocation ID	Reverse DNS record	Associated instance ID
No Elastic IP addresses found in this Region					

[View IP address usage and recommendations to release unused IPs with Public IP insights](#)

Step : 11 The subsequent window appears. Keep all thing same and proceed to click on “Allocate”.

Elastic IP address settings

Network border group:

Public IPv4 address pool

- ☒ Amazon's pool of IPv4 addresses
 - Public IPv4 address that you bring to your AWS account with EIP. (option disabled because no pools found) [Learn more](#)
 - Customer-owned pool of IPv4 addresses created from your on-premises network for use with an Outpost. (option disabled because no customer owned pools found) [Learn more](#)

Global static IP addresses

AWS Global Accelerator can provide global static IP addresses that are announced worldwide using anycast from AWS edge locations. This can help improve the availability and latency for your user traffic by using the Amazon global network. [Learn more](#)

[Create accelerator](#)

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.

No tags associated with the resource.

[Add new tag](#)

You can add up to 50 more tag

[Cancel](#) [Allocate](#)

Step : 12 Now proceed to click on “Associate Elastic IP Address”.

13.127.90.116

[Actions](#) [Associate Elastic IP address](#)

Summary

Allocated IPv4 address	Type	Allocation ID	Reverse DNS record
<input checked="" type="checkbox"/> 13.127.90.116	<input checked="" type="checkbox"/> Public IP	<input checked="" type="checkbox"/> eipalloc-06a8a52d7a3c228e9	-
Association ID	Scope	Associated instance ID	Private IP address
-	<input checked="" type="checkbox"/> VPC	-	-
Network interface ID	Network interface owner account ID	Public DNS	NAT Gateway ID
-	-	-	-
Address pool	Network border group		
<input checked="" type="checkbox"/> Amazon	<input checked="" type="checkbox"/> ap-south-1		

Tags(0)

[Manage tags](#)

No tags associated with this resource

Click the Manage tags button to add your first tag

[Manage tags](#)

Step : 13 Choose the instance, its private IP address, and tick the checkbox below. Then, proceed to click on "Associate."

Elastic IP address: 13.127.90.116

Resource type

Choose the type of resource with which to associate the Elastic IP address.

☒ Instance

☐ Network interface

Warning: If you associate an Elastic IP address with an instance that already has an Elastic IP address associated, the previously associated Elastic IP address will be disassociated, but the address will still be allocated to your account. [Learn more](#)

If no private IP address is specified, the Elastic IP address will be associated with the primary private IP address.

Instance

Private IP address

The private IP address with which to associate the Elastic IP address.

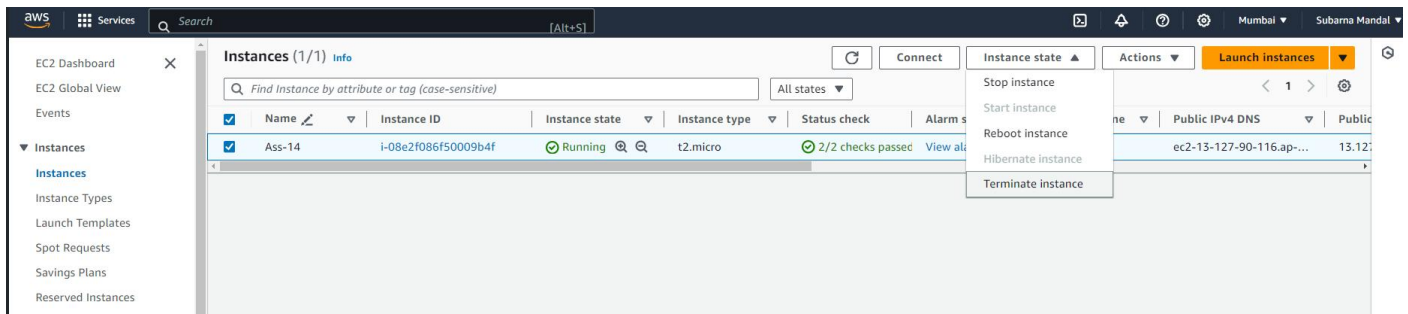
Reassociation

Specify whether the Elastic IP address can be reassociated with a different resource if it already associated with a resource.

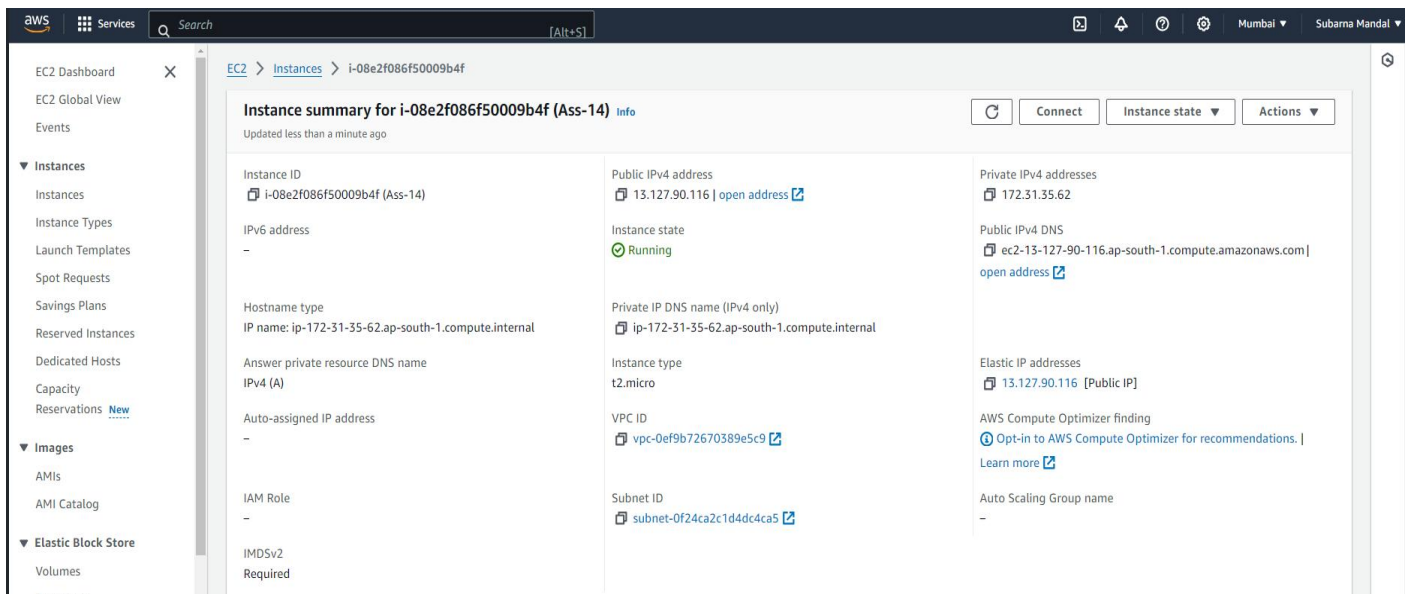
☒ Allow this Elastic IP address to be reassociated

[Cancel](#) [Associate](#)

Step : 14 After stopping and then restarting the instance, you will observe that the IPv4 address remains unchanged.



Before stopping the instance.



After starting termination.

