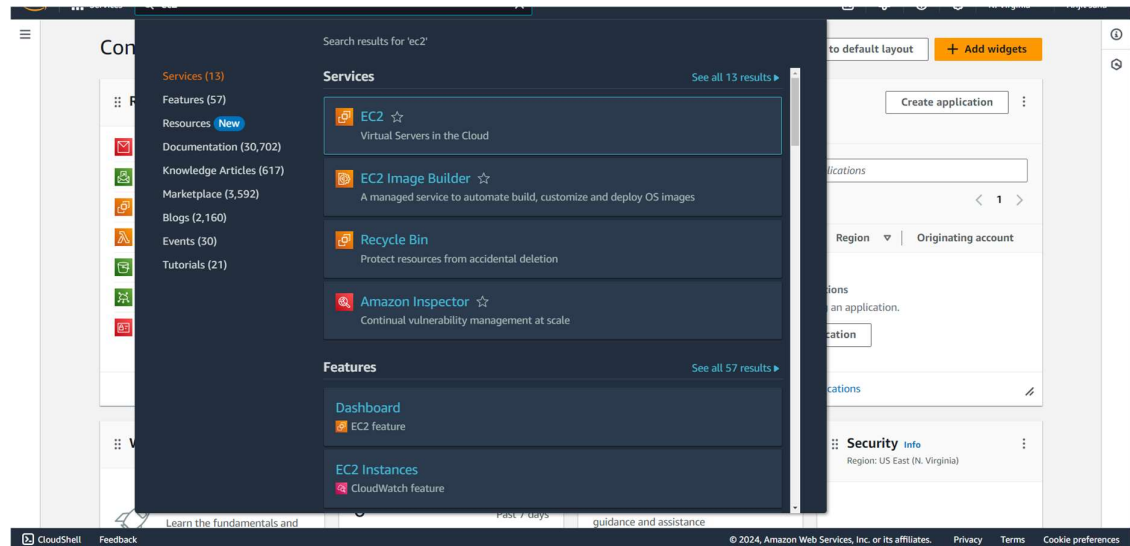


## Assignment No: 14

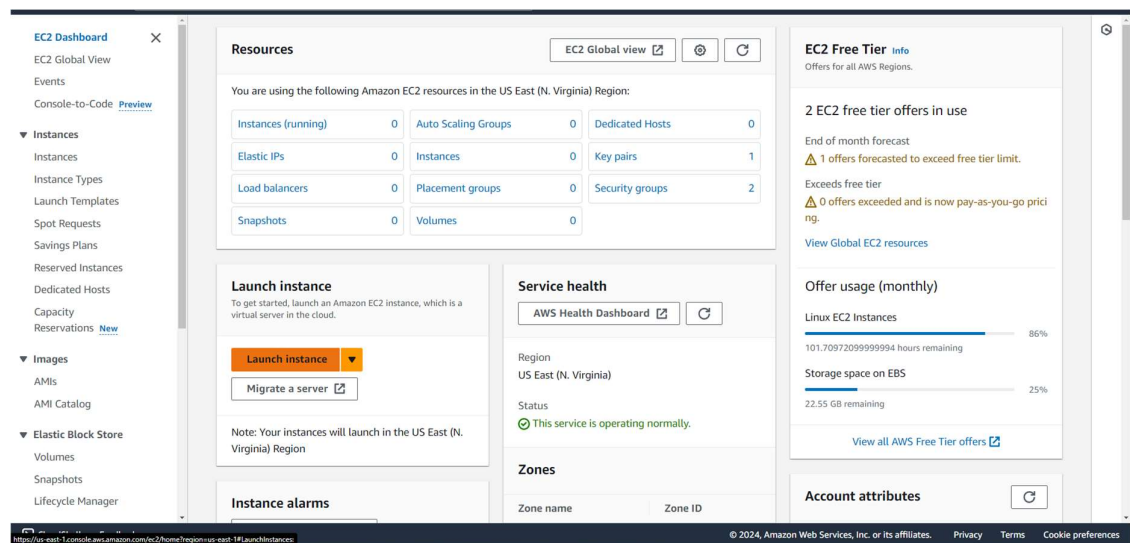
### Problem Statement: Create an Elastic IP for an instance.

The steps are as follows: -

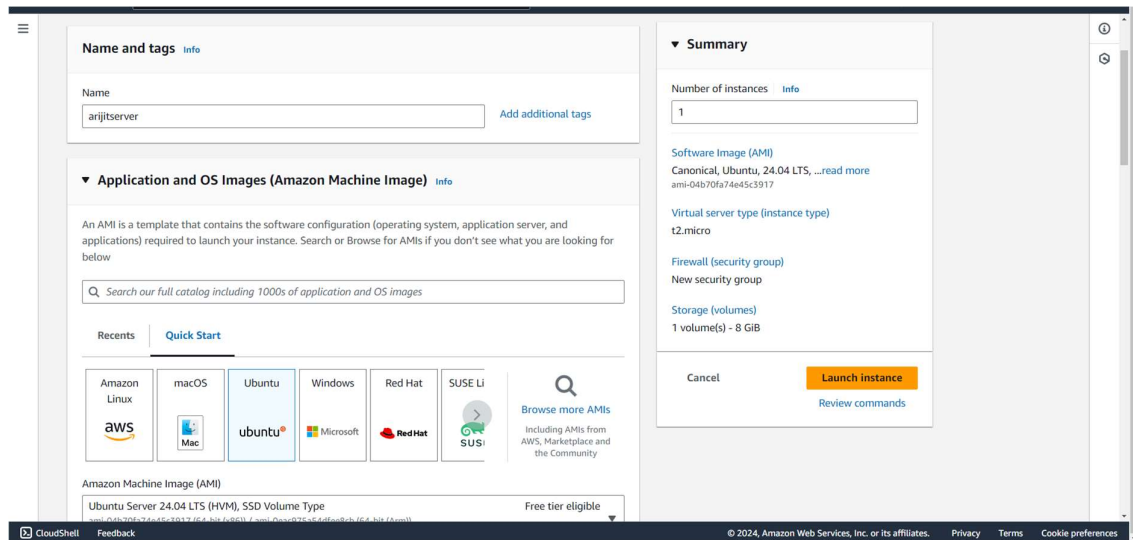
1. Please open the AWS console, navigate to EC2, and select the first option listed.



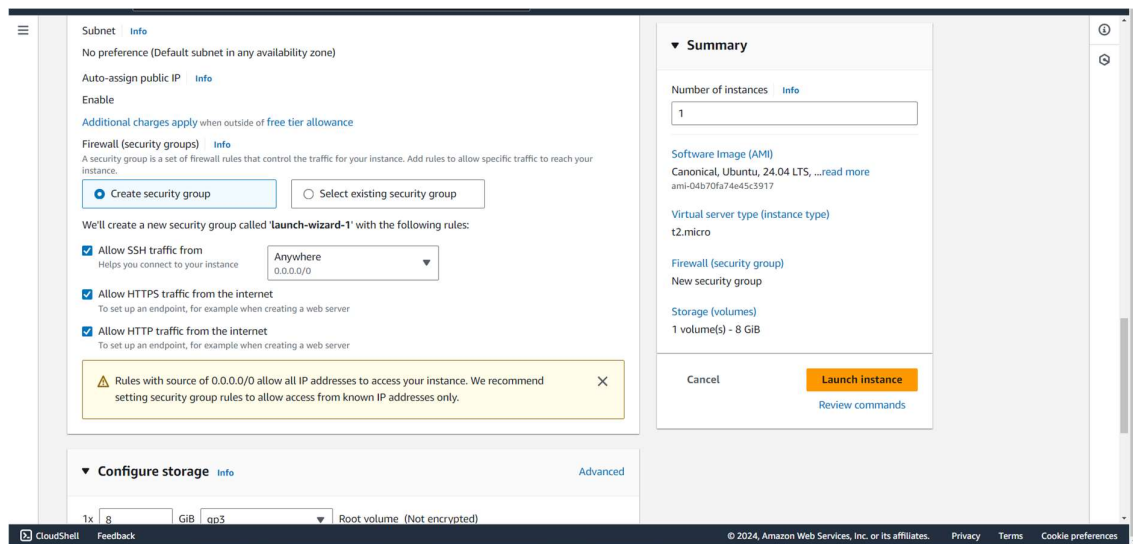
2. Select the "Launch Instance" button.



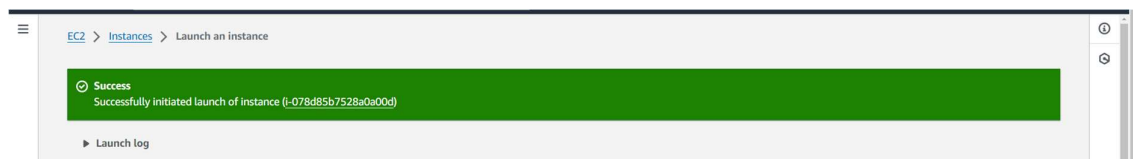
3. Enter a suitable name for your instance. For instance, we have named it "soumyaserver."



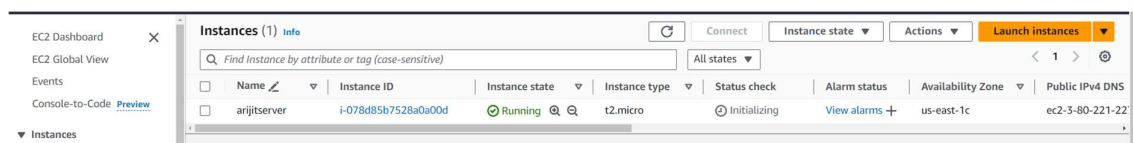
4. Select **Ubuntu** from the list of available AMIs.



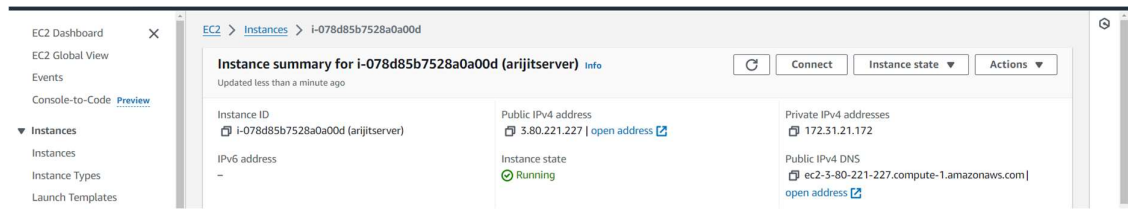
5. Select the checkboxes for SSH, HTTP, and HTTPS protocols. Proceed to click on “Launch Instance”.



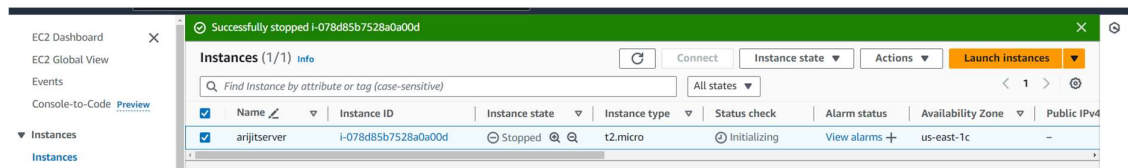
6. The instance has been created successfully.



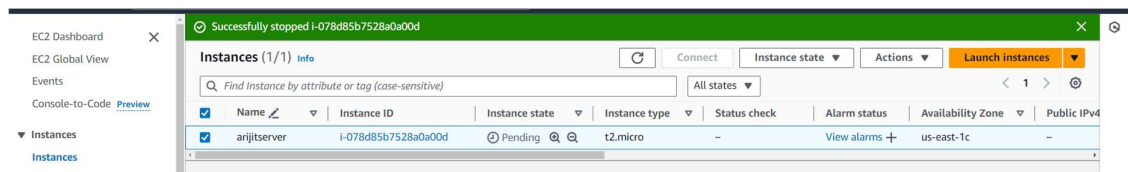
7. To view the public IPv4 address, click on the instance ID.



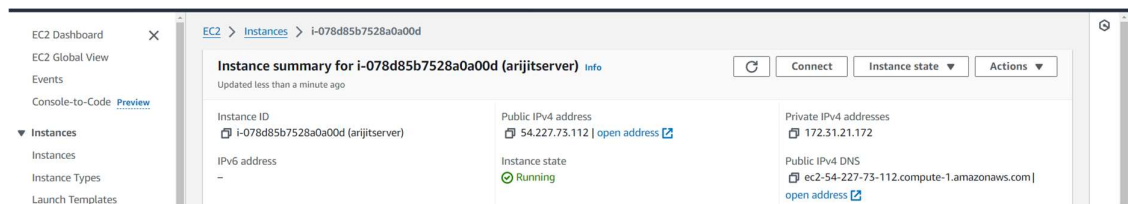
8. Select the instance, go to "Instance State," and choose to stop the instance.



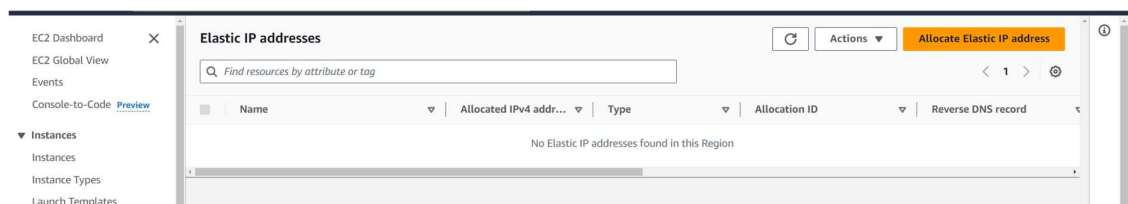
9. Once the instance is stopped, proceed to start the instance again.



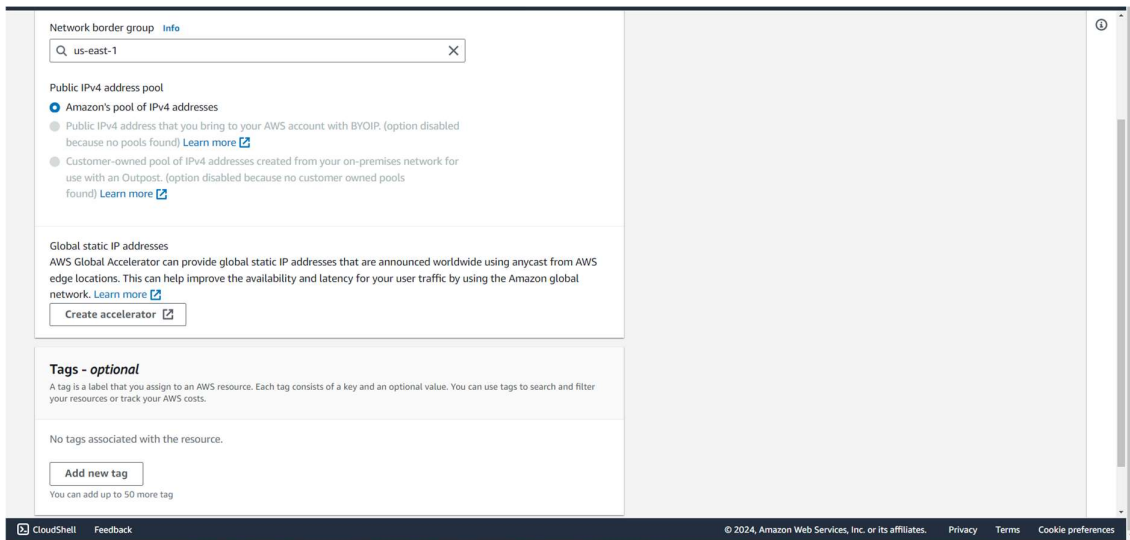
10. After restarting the instance, you will notice that the IPv4 address has changed.



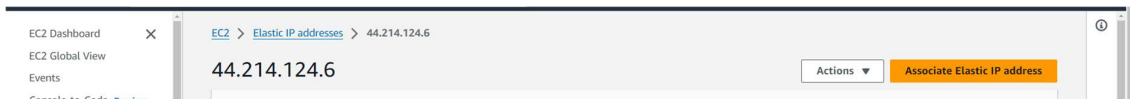
11. Next, we will associate this instance with an Elastic IP.



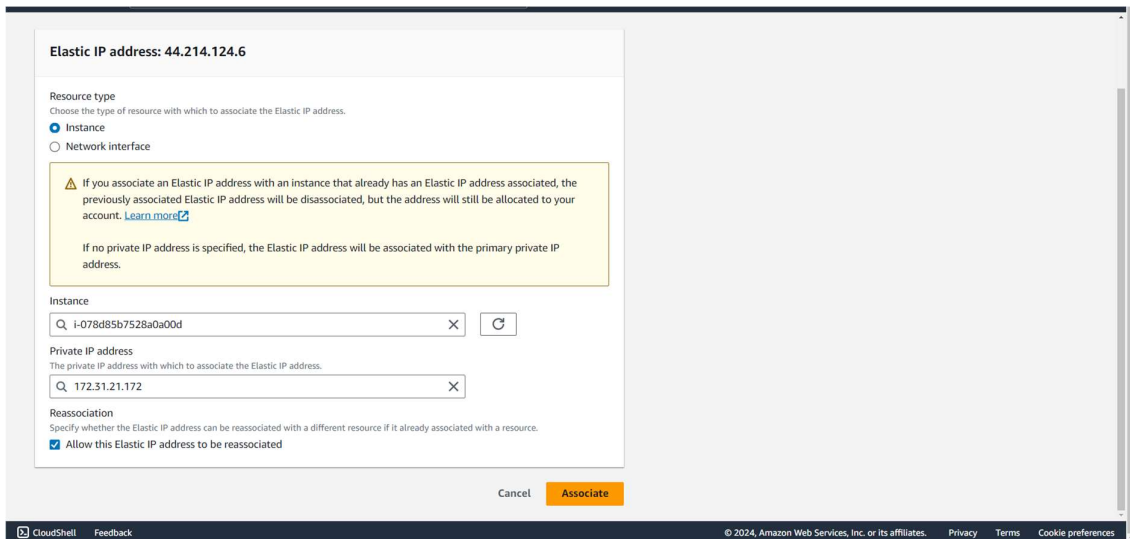
12. Select "Allocate Elastic IP Address" button.



13.The subsequent window appears.



14.Proceed to click on “Allocate”.



15.Now proceed to click on “Associate Elastic IP Address”.

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

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

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Instances (1/1) Info

Find Instance by attribute or tag (case-sensitive)

All states ▼

< 1 >

<input checked="" type="checkbox"/>	Name ↗	Instance ID	Instance state ▼	Instance type ▼	Status check	Alarm status	Availability Zone ▼	Public IP
<input checked="" type="checkbox"/>	arijtsrver	i-078d85b7528a0a00d	Running	t2.micro	2/2 checks passed	<a href="#">View alarms +</a>	us-east-1c	ec2-44-2

i-078d85b7528a0a00d (arijtsrver)

Details

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▼ Instance summary Info

Instance ID

i-078d85b7528a0a00d (arijtsrver)

Public IPv4 address

44.214.124.6 | [open address](#)

Private IPv4 addresses

172.31.21.172

IPv6 address

—

Instance state

Running

Public IPv4 DNS

ec2-44-214-124-6.compute-1.amazonaws.com | [open address](#)

Hostname type

Private IP DNS name (IPv4 only)

ip-172-31-21-172.ec2.internal

Answer private resource DNS name

Instance type

t2.micro

IPv4 (A)

IPV4 (A)

44.214.124.6 [Public IP]

Auto-assigned IP address

VPC ID

AWS Compute Optimizer finding

CloudShell

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All states ▼

< 1 >

<input checked="" type="checkbox"/>	Name ↗	Instance ID	Instance state ▼	Instance type ▼	Status check	Alarm status	Availability Zone ▼	Public IP
<input checked="" type="checkbox"/>	arijtsrver	i-078d85b7528a0a00d	Stopping	t2.micro	2/2 checks passed	<a href="#">View alarms +</a>	us-east-1c	ec2-44-2

i-078d85b7528a0a00d (arijtsrver)

Details

Status and alarms [New](#)

Monitoring

Security

Networking

Storage

Tags

▼ Instance summary Info

Instance ID

i-078d85b7528a0a00d (arijtsrver)

Public IPv4 address

44.214.124.6 | [open address](#)

Private IPv4 addresses

172.31.21.172

IPv6 address

—

Instance state

Stopping

Public IPv4 DNS

ec2-44-214-124-6.compute-1.amazonaws.com | [open address](#)

Hostname type

Private IP DNS name (IPv4 only)

ip-172-31-21-172.ec2.internal

Answer private resource DNS name

Instance type

t2.micro

IPv4 (A)

IPV4 (A)

44.214.124.6 [Public IP]

Auto-assigned IP address

VPC ID

AWS Compute Optimizer finding

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Feedback

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