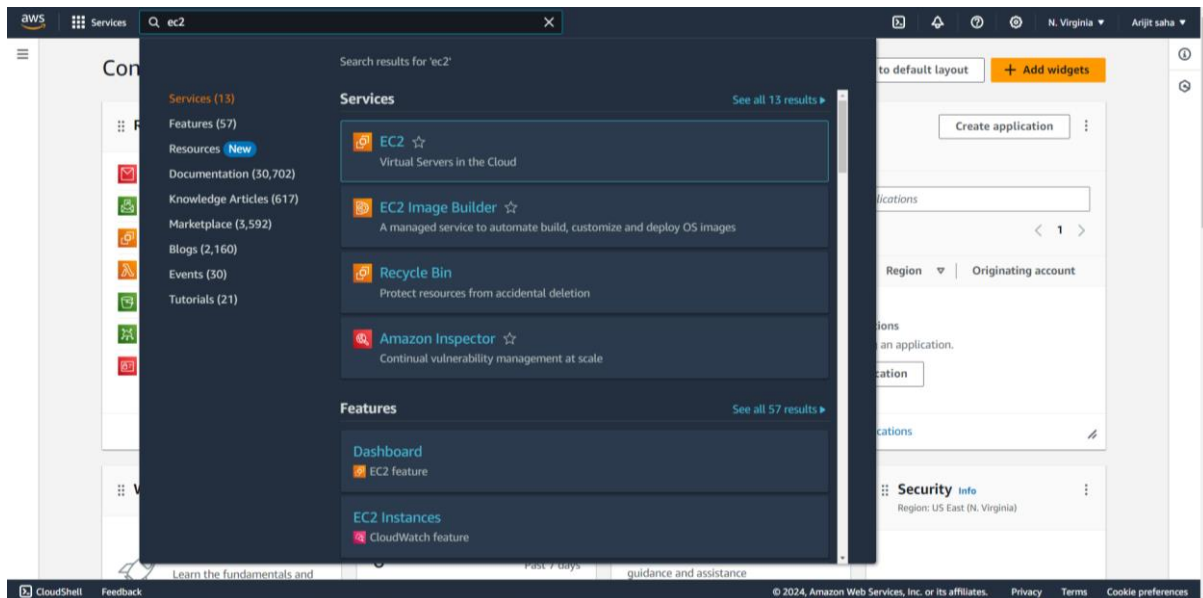


Assignment No: 14

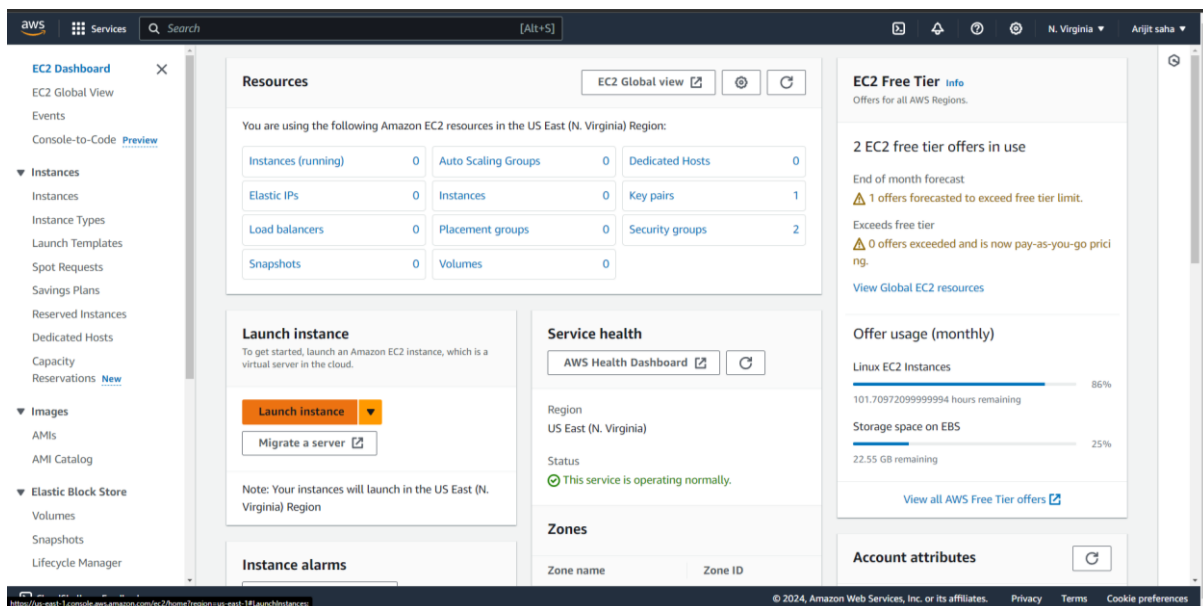
Problem Statement: Create an Elastic IP for an instance.

The steps are as follows: -

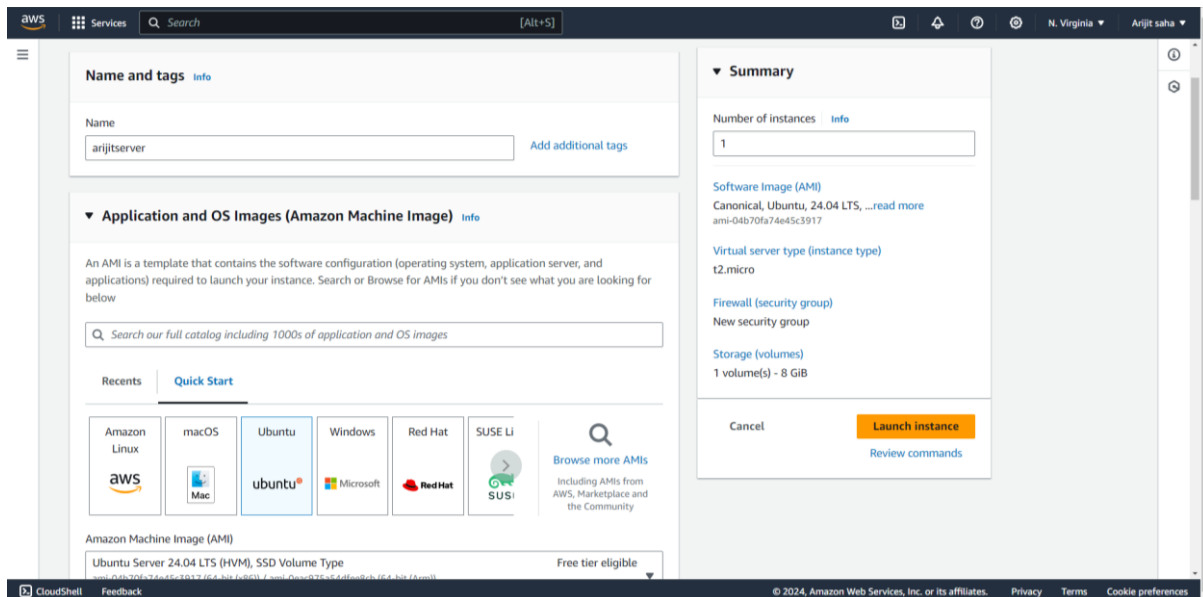
1. Please open the AWS console, navigate to EC2, and select the first option listed.



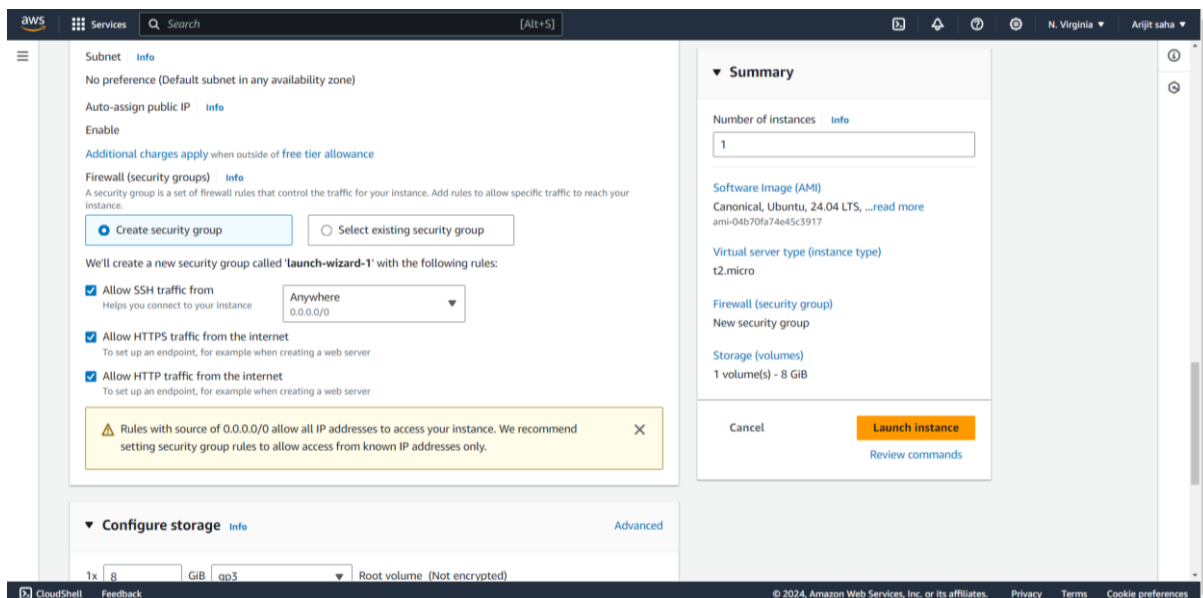
2. Select the "Launch Instance" button.



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



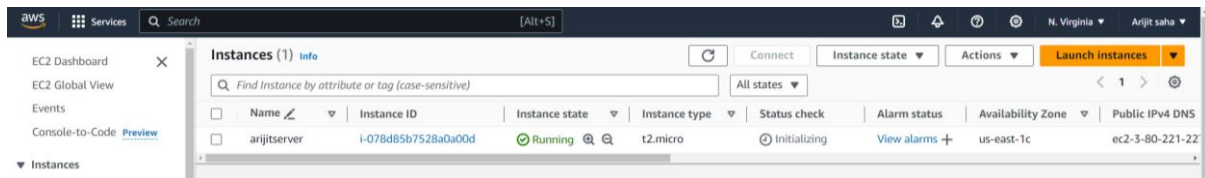
4. Select **Ubuntu** from the list of available AMIs.



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



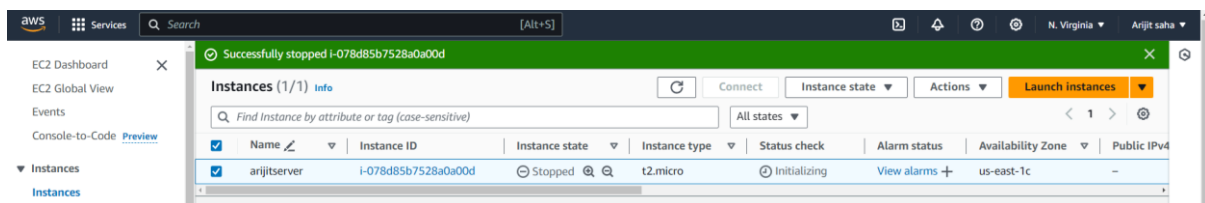
6. The instance has been created successfully.



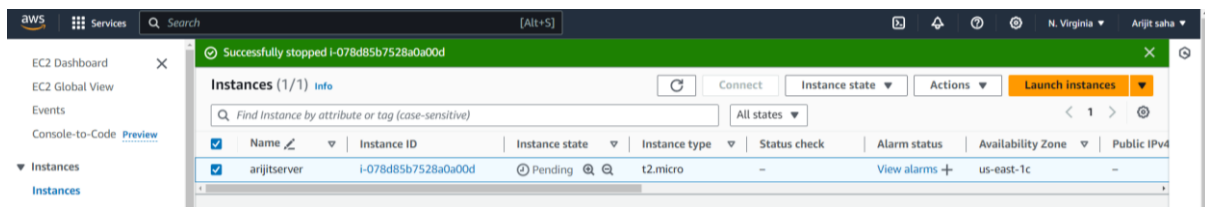
7. To view the public IPv4 address, click on the instance ID.



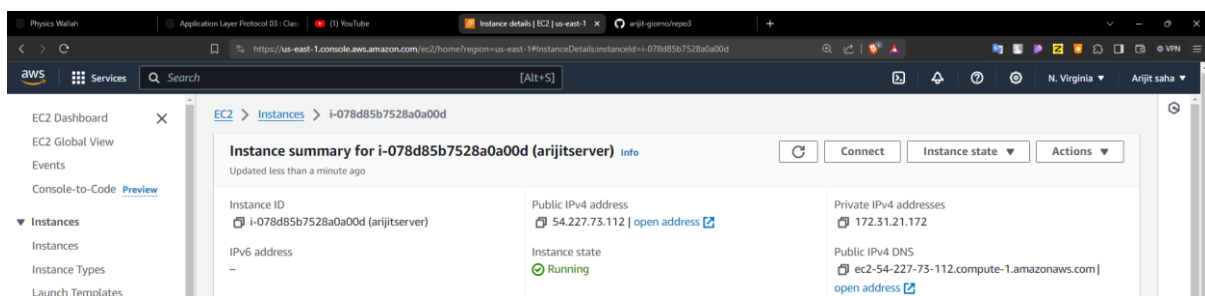
8. Select the instance, go to "Instance State," and choose to stop the instance.



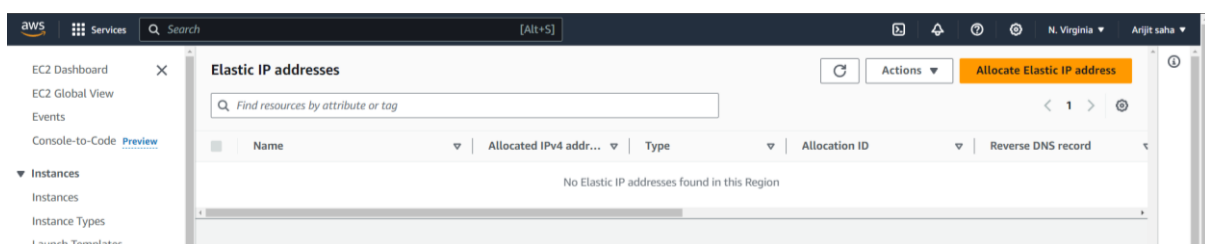
9. Once the instance is stopped, proceed to start the instance again.



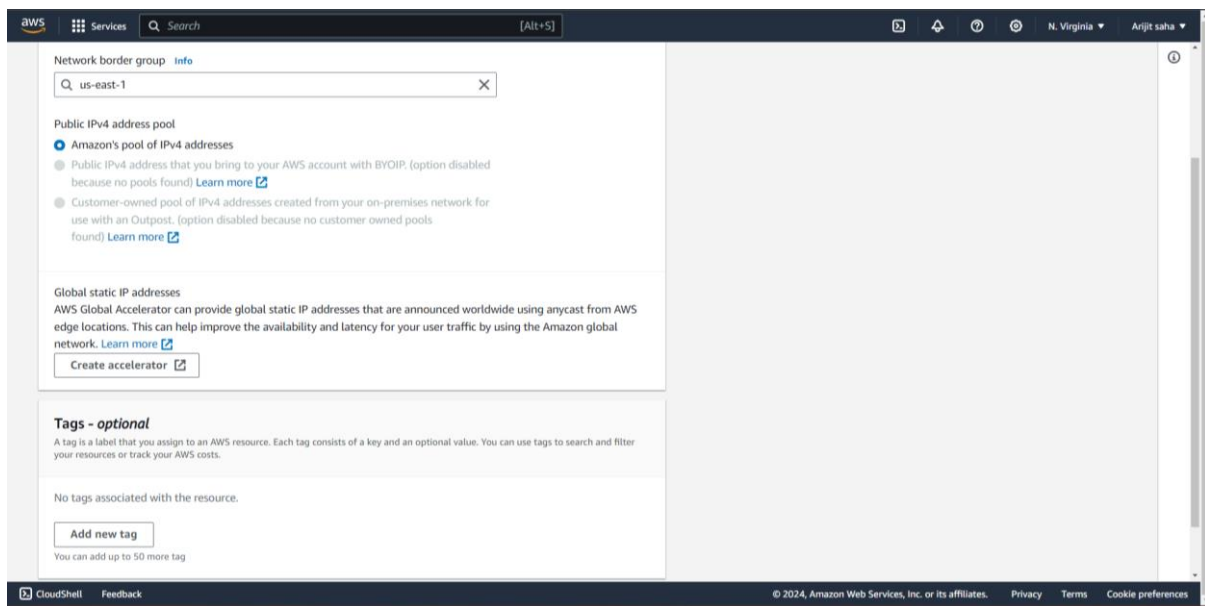
10. After restarting the instance, you will notice that the IPv4 address has changed.



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



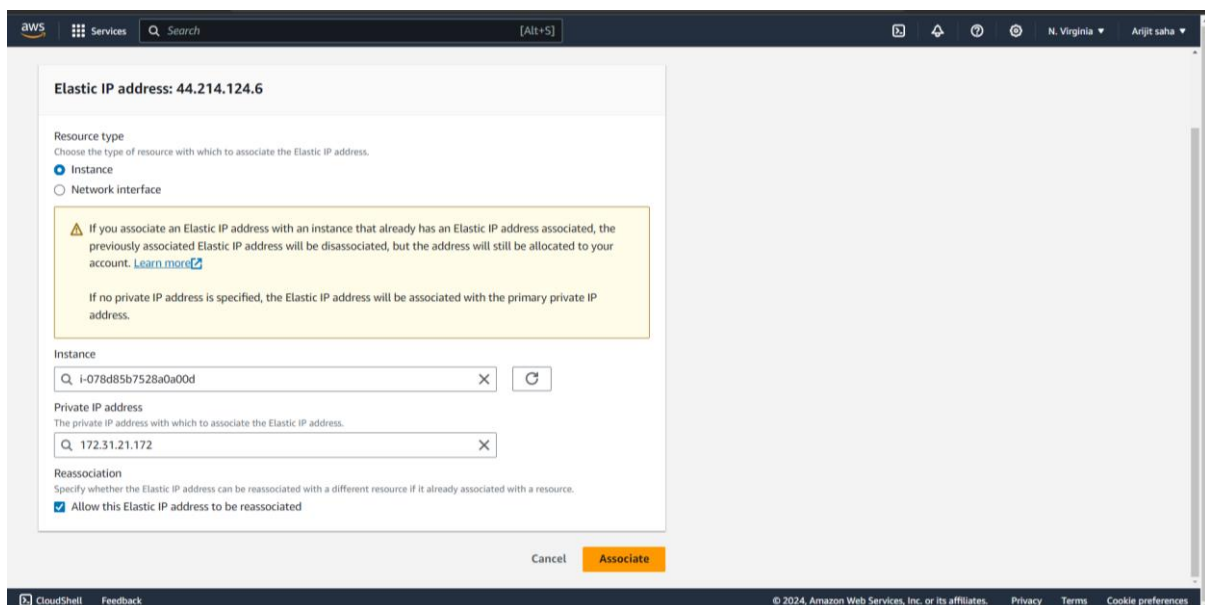
12. Select **“Allocate Elastic IP Address”** button.



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.

The screenshot shows the AWS Management Console interface. On the left, the navigation menu includes 'Instances', 'Images', and 'Elastic Block Store'. The main content area displays the 'Instances (1/1)' page. A table lists the instance 'arijitserver' with ID 'i-078d85b7528a0a00d', state 'Running', and type 't2.micro'. Below the table, the 'Details' tab for the instance is open, showing the 'Instance summary' with the following information:

Field	Value
Instance ID	i-078d85b7528a0a00d (arijitserver)
Public IPv4 address	44.214.124.6 open address
Private IPv4 addresses	172.31.21.172
Instance state	Running
Public IPv4 DNS	ec2-44-214-124-6.compute-1.amazonaws.com open address
Private IP DNS name (IPv4 only)	ip-172-31-21-172.ec2.internal
Instance type	t2.micro
Elastic IP addresses	44.214.124.6 [Public IP]
Auto-assigned IP address	

The screenshot shows the AWS Management Console interface after the instance 'arijitserver' has been stopped. A green banner at the top indicates 'Successfully stopped i-078d85b7528a0a00d'. The instance table now shows the state as 'Stopping'. The 'Details' tab for the instance is open, showing the 'Instance summary' with the following information:

Field	Value
Instance ID	i-078d85b7528a0a00d (arijitserver)
Public IPv4 address	44.214.124.6 open address
Private IPv4 addresses	172.31.21.172
Instance state	Stopping
Public IPv4 DNS	ec2-44-214-124-6.compute-1.amazonaws.com open address
Private IP DNS name (IPv4 only)	ip-172-31-21-172.ec2.internal
Instance type	t2.micro
Elastic IP addresses	44.214.124.6 [Public IP]
Auto-assigned IP address	