

Assignment 5

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Class: Msc CS Part 2

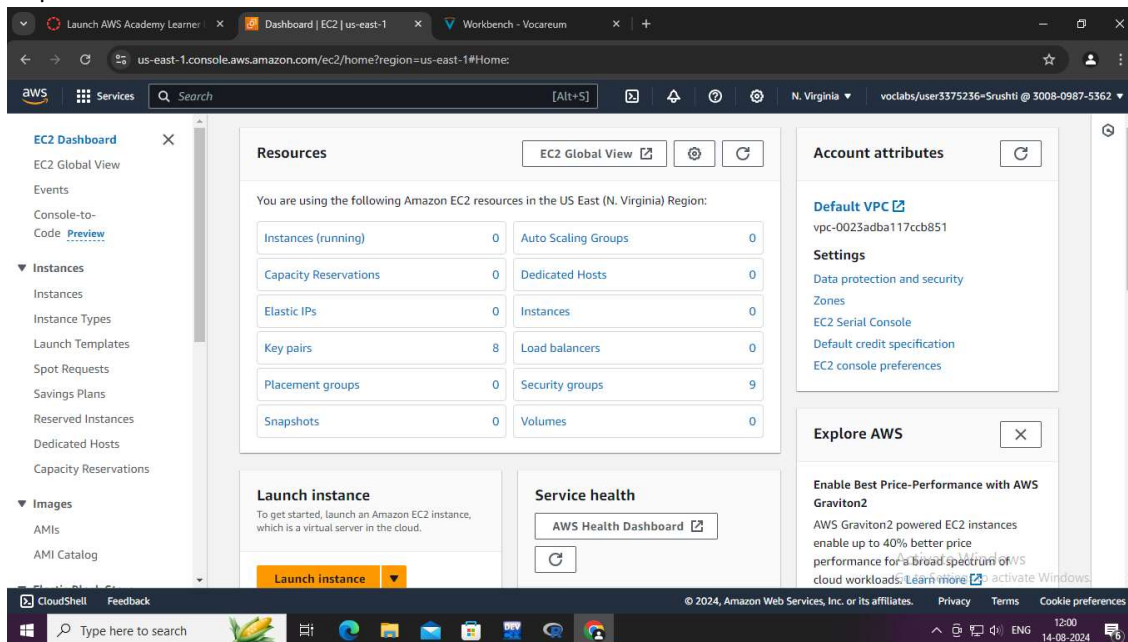
Q.)Working and Implementation of Infrastructure as a service Launch Your Amazon EC2 Instance. Write the shell script in the User Data box. The script will:

- Install an Apache web server (httpd)
- Configure the web server to automatically start on boot
- Run the Web server once it has finished installing
- Create a simple web page

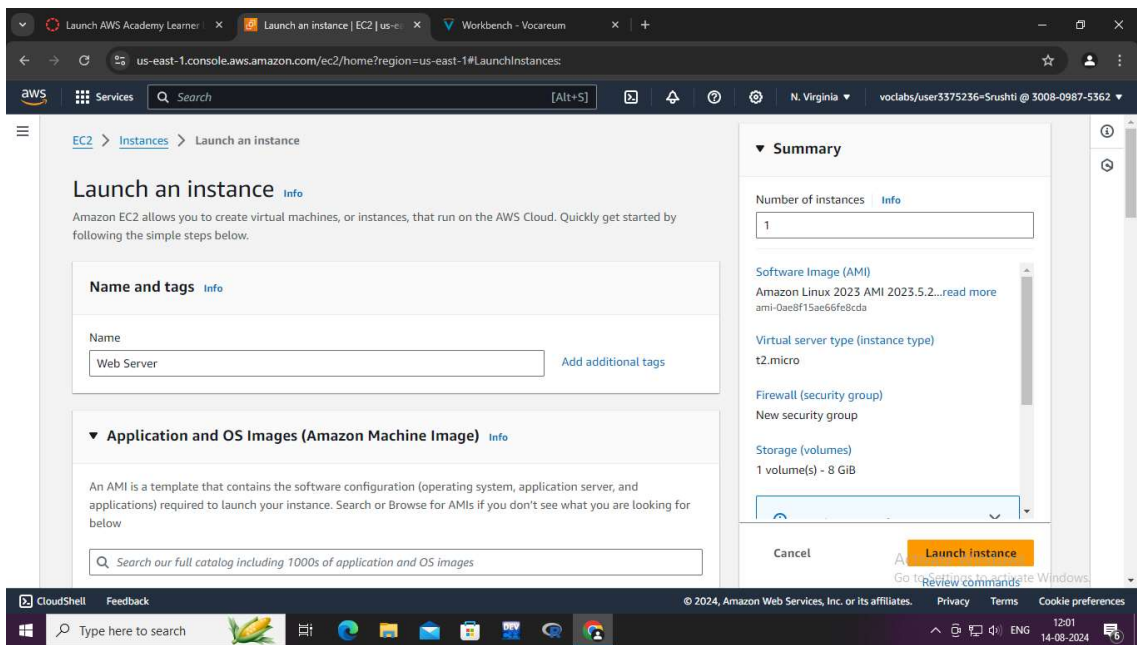
Update Your Security Group and Access the Web Server. (Use AWS Platform)

Step 1:Login in to your AWS account and go to service->Compute->EC2

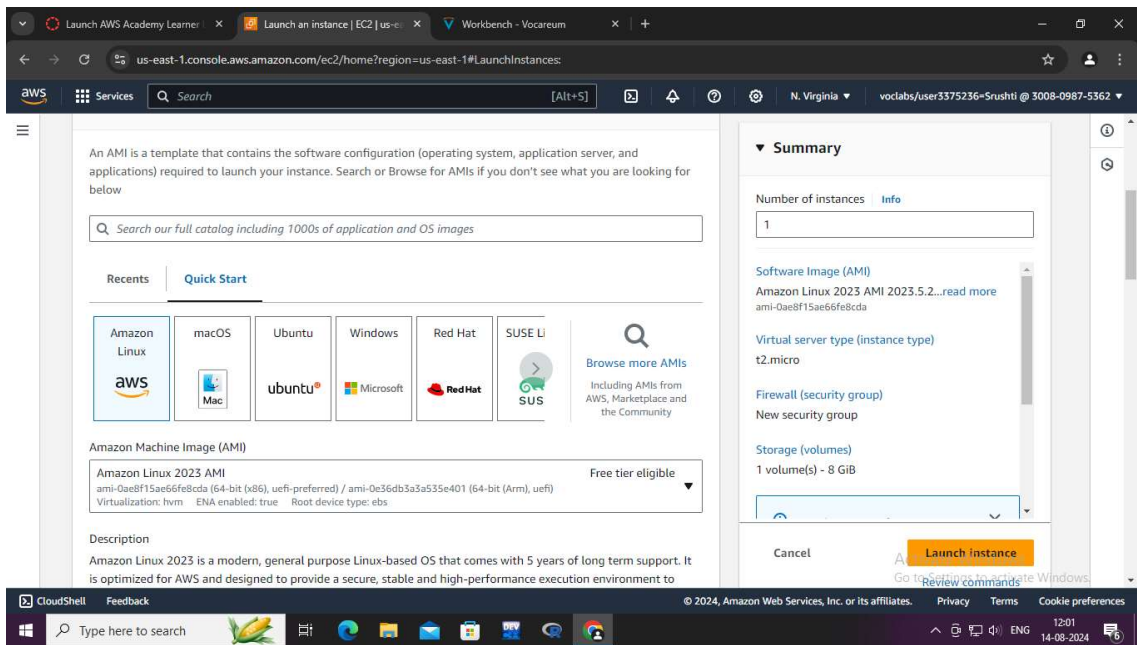
Step 2:Click on Launch Instance



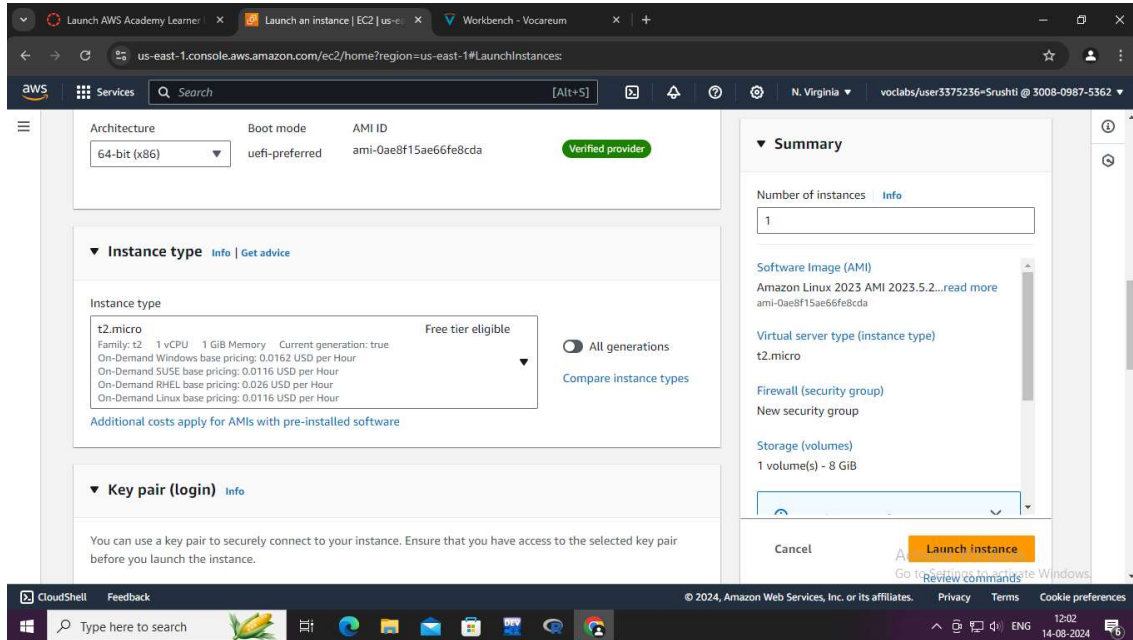
Step 3:Now in Name and tags,you can give name to the instance.Here I give name as Web Server



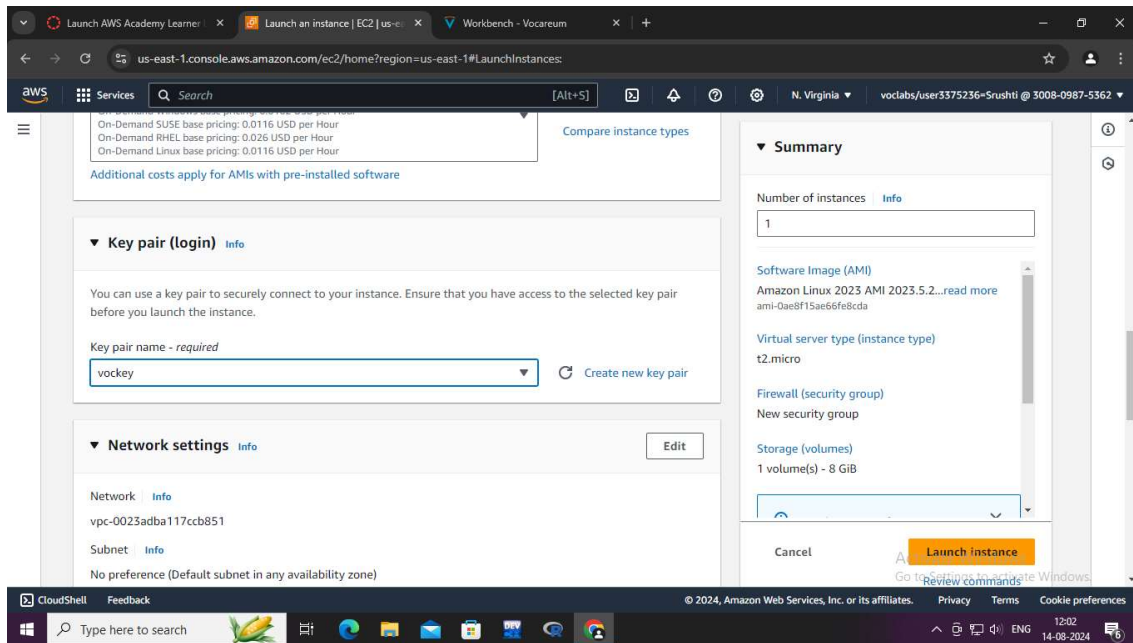
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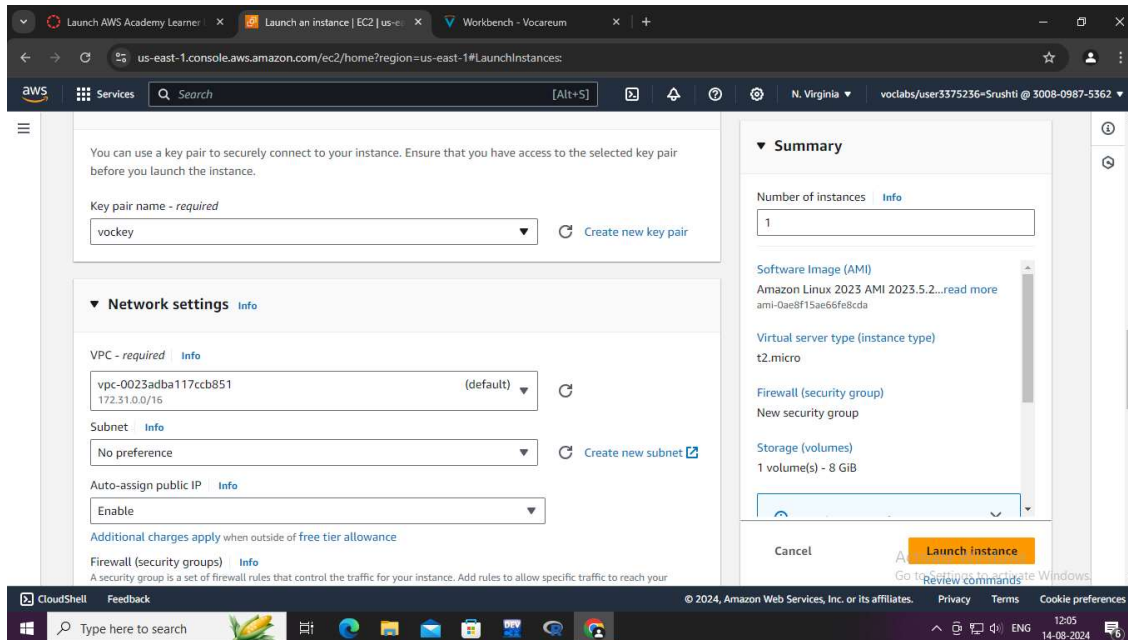


Step 5: Select t2.micro instance type

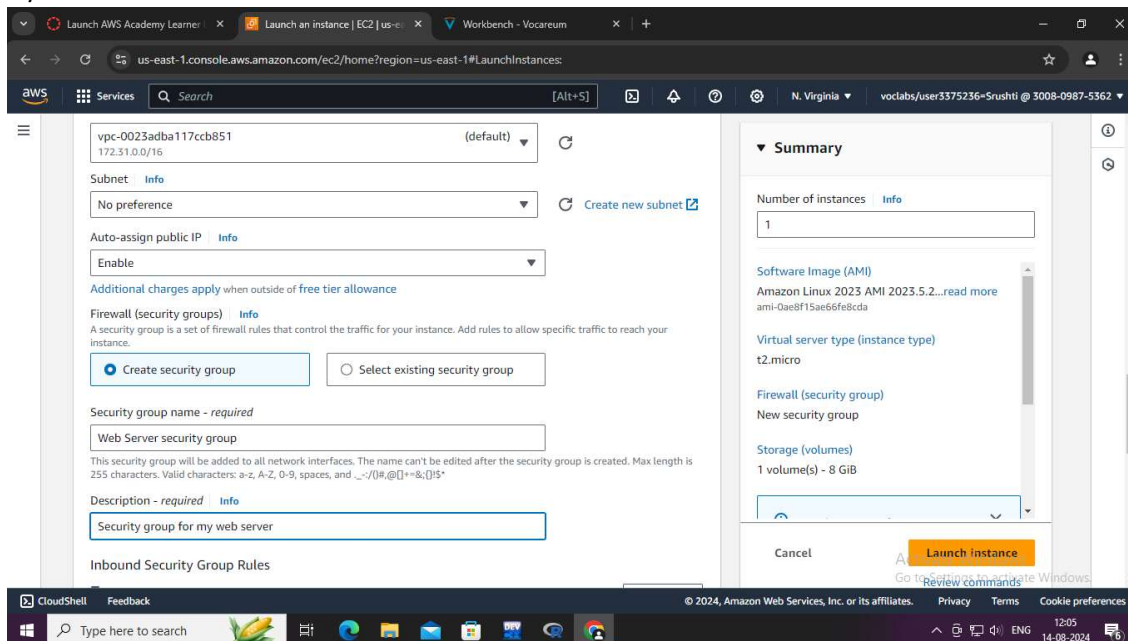


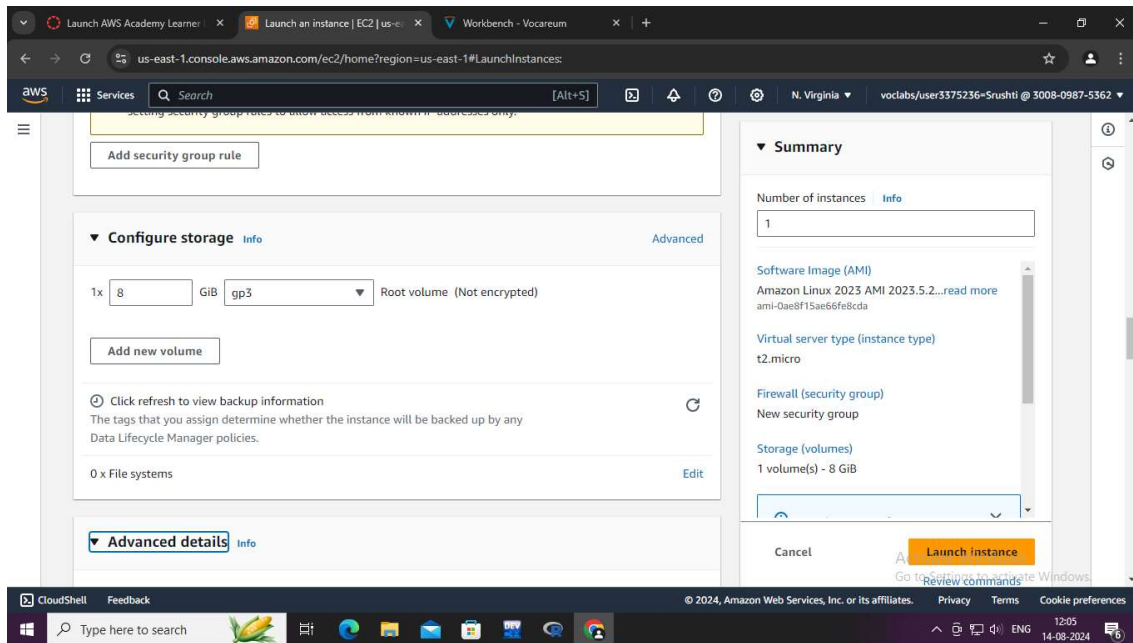
Step 6: In the key pair, select vockey from the dropdown list. And in networking settings, select lab VPC





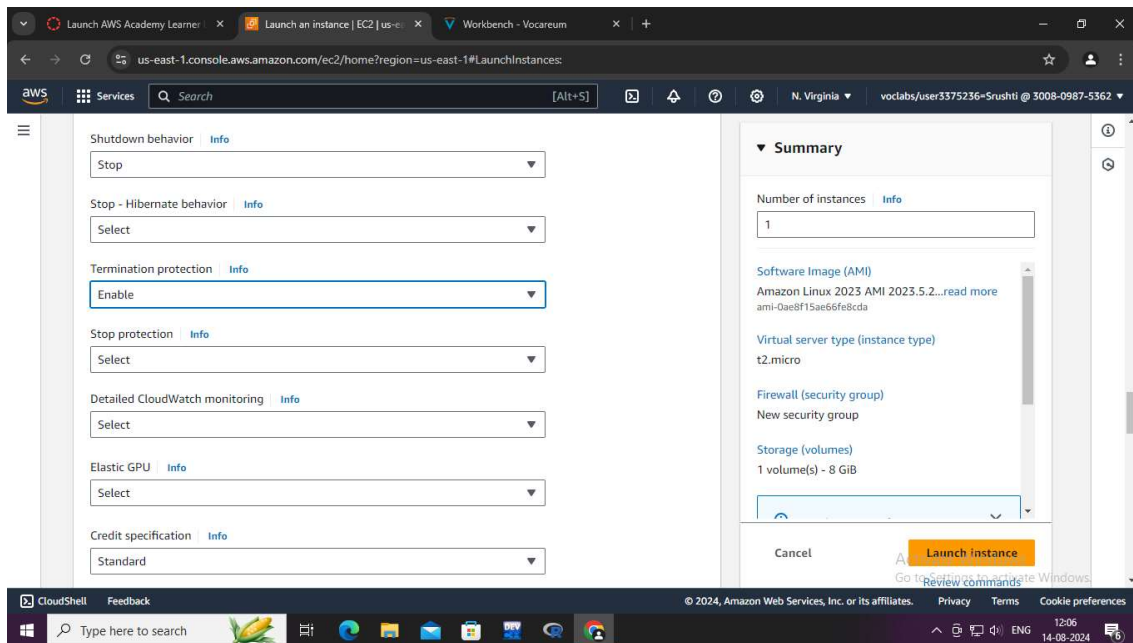
Step 7: Give security group name as Web Server Security Group and description as Security group for my web server

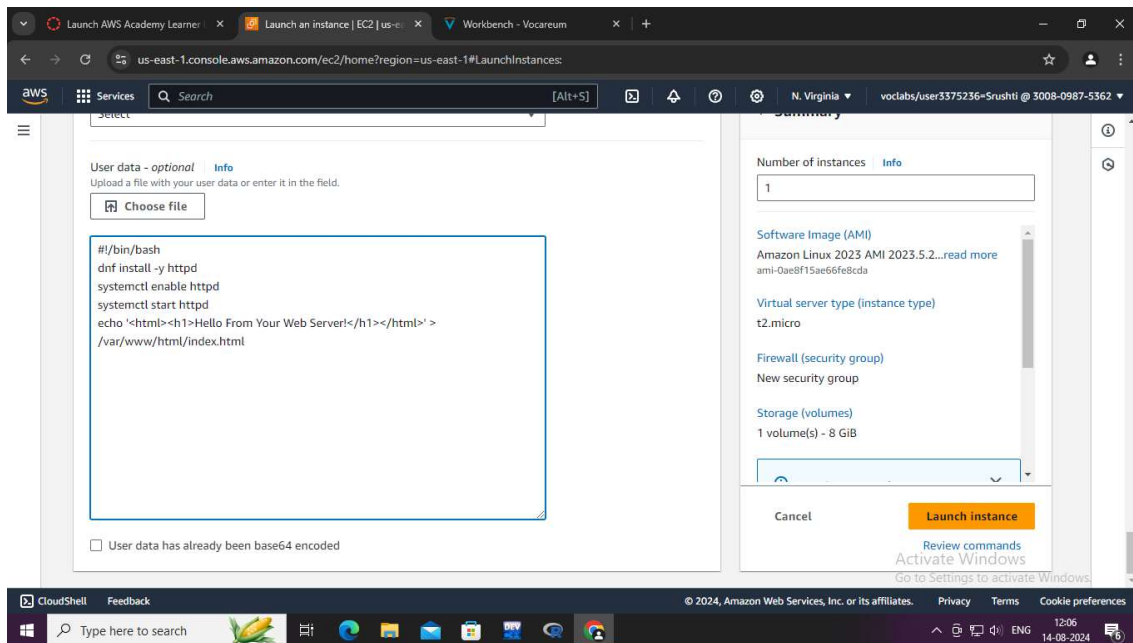
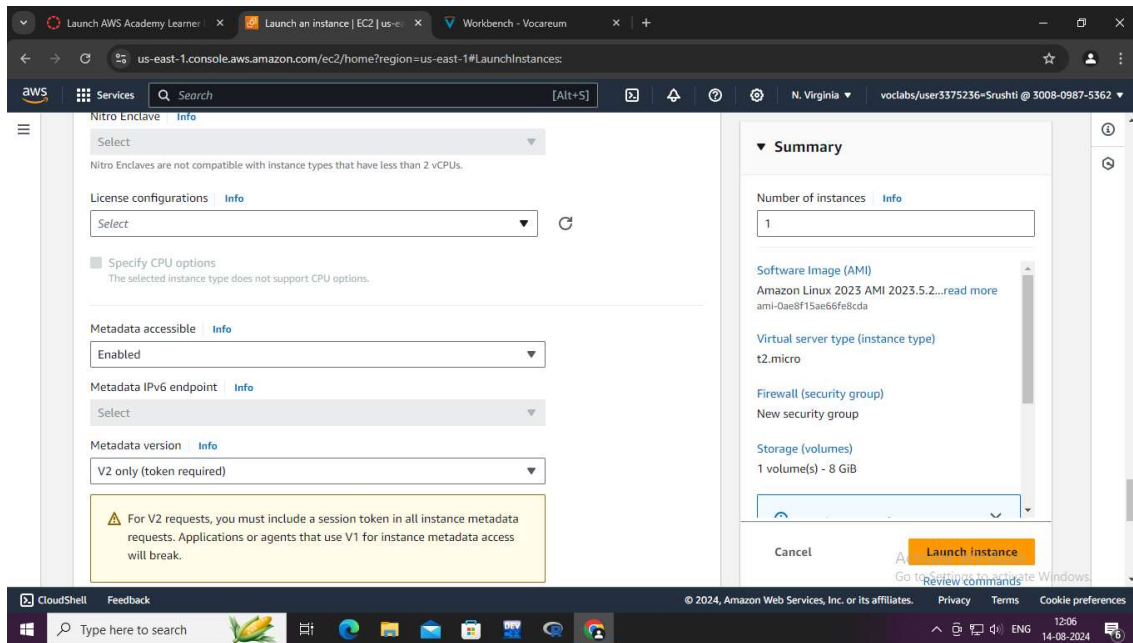




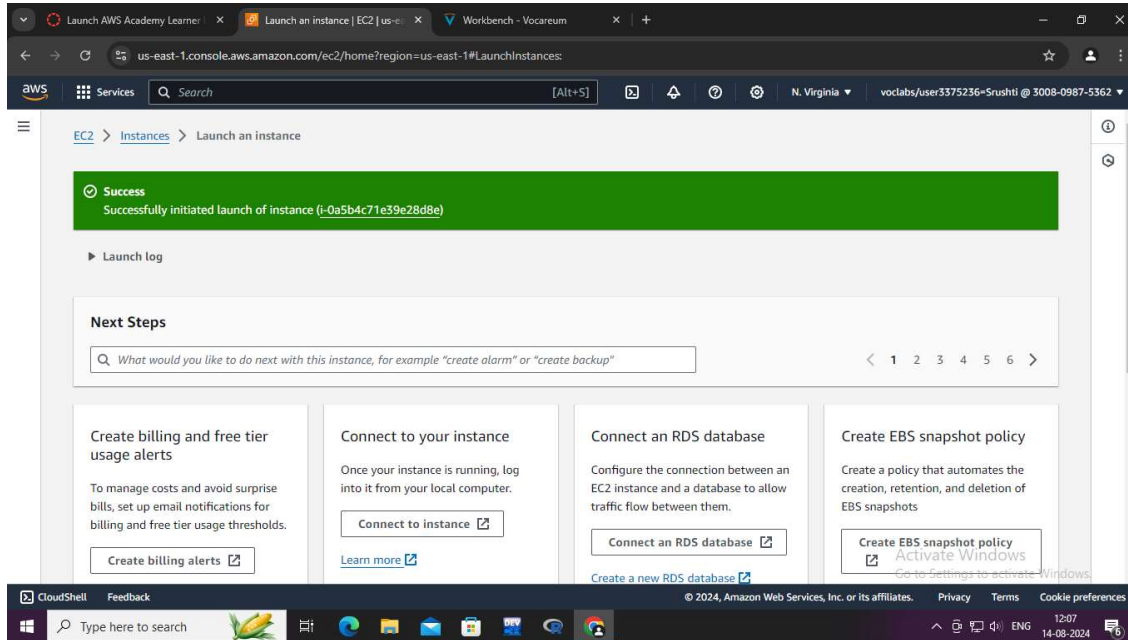
Step 8: Remove the inbound security group rules

Step 9: Keep Termination Protection enable

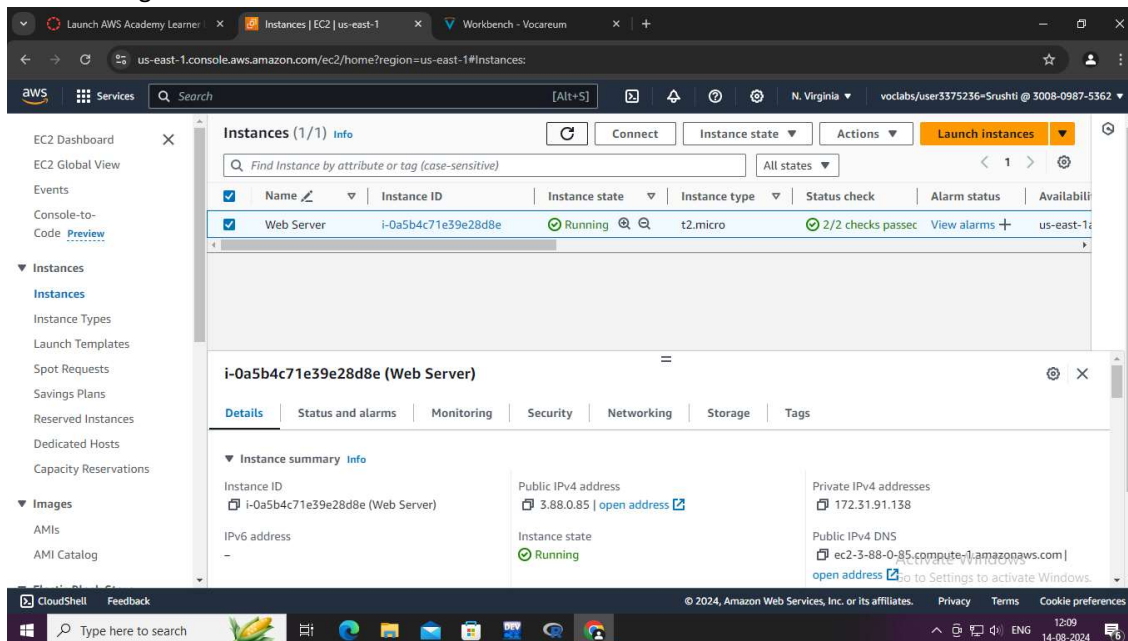




Here, as we our instance launched successfully.



Step 11: Here you can see your instances and wait for some time till status check 2/2 and instance state running.



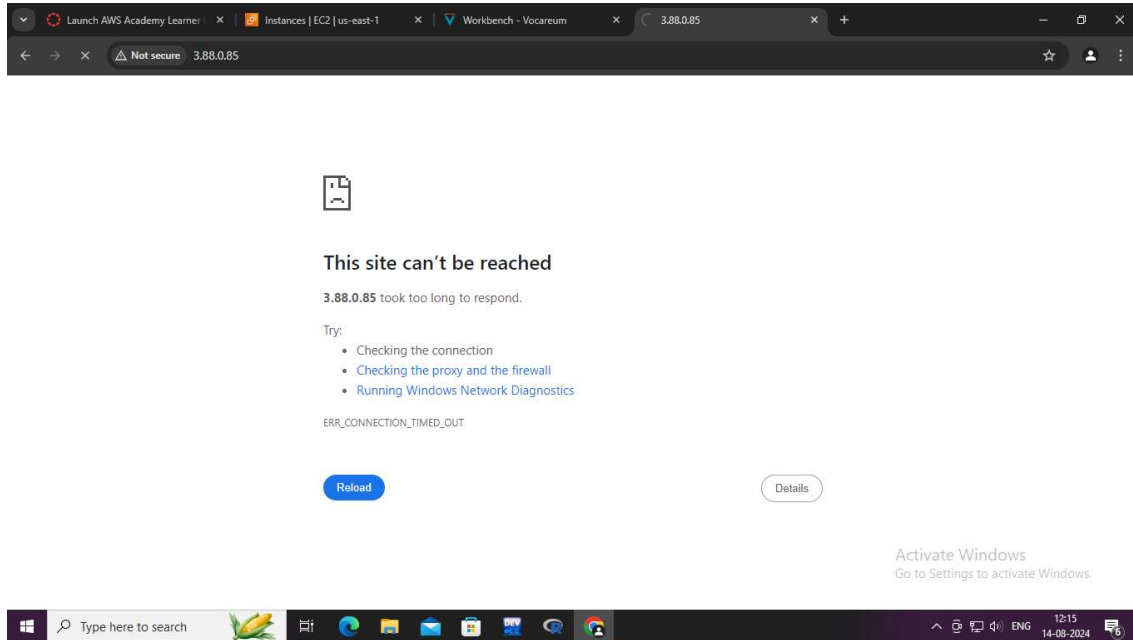
Step 14: Go to Instances, select web server then choose details and copy the public IPv4 address and paste it in new tab

The image consists of two screenshots of the AWS Management Console, illustrating the steps to copy the public IPv4 address of a running EC2 instance.

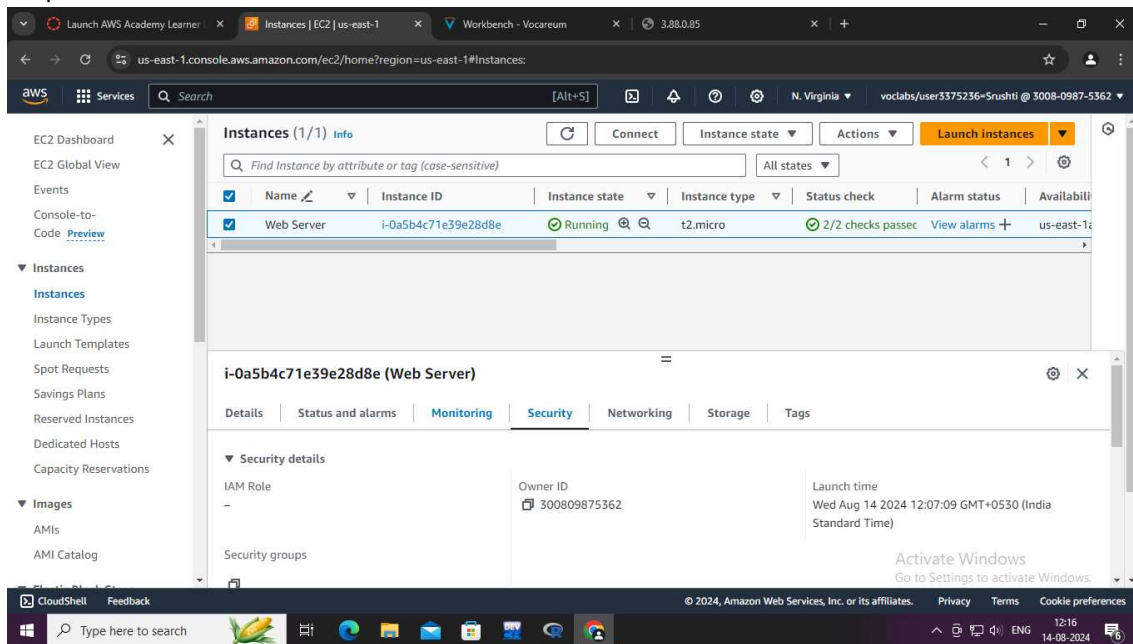
Top Screenshot: The 'Instances' page is shown with a list of instances. The instance 'Web Server' (ID: i-0a5b4c71e39e28d8e) is selected. The 'Actions' menu is open, and the 'Monitor and troubleshoot' option is highlighted. The instance details for 'i-0a5b4c71e39e28d8e (Web Server)' are displayed, showing the 'Instance summary' tab. The 'Public IPv4 address' is 3.88.0.85, and the 'Instance state' is 'Running'.

Bottom Screenshot: The same instance details page is shown, but the 'Public IPv4 address' (3.88.0.85) is highlighted, and a tooltip indicates it has been copied. The 'Instance summary' tab is still selected, and the 'Instance state' remains 'Running'.

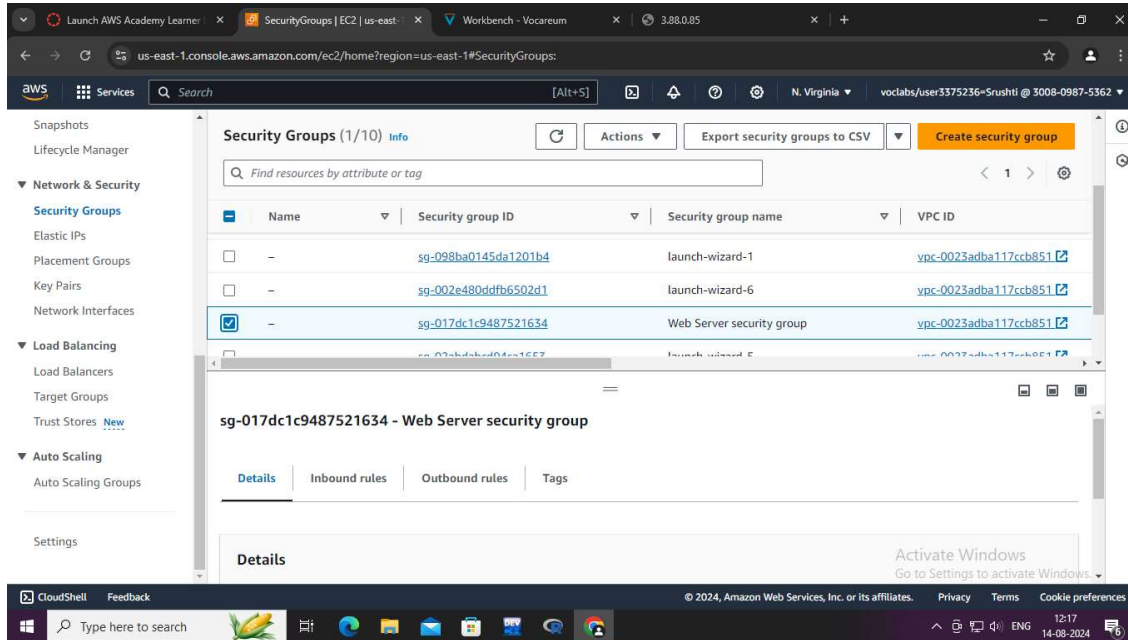
After pasting address,we get following scree



Step 15:Go back to EC2 tab



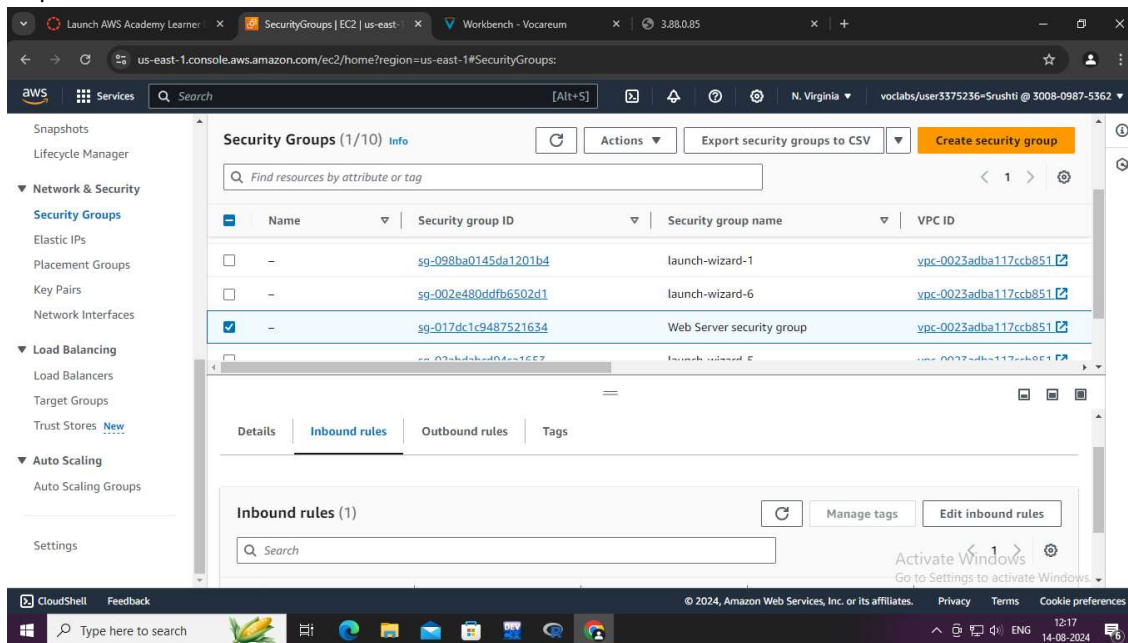
Step 16: Then click->Security Groups, select Web server security group



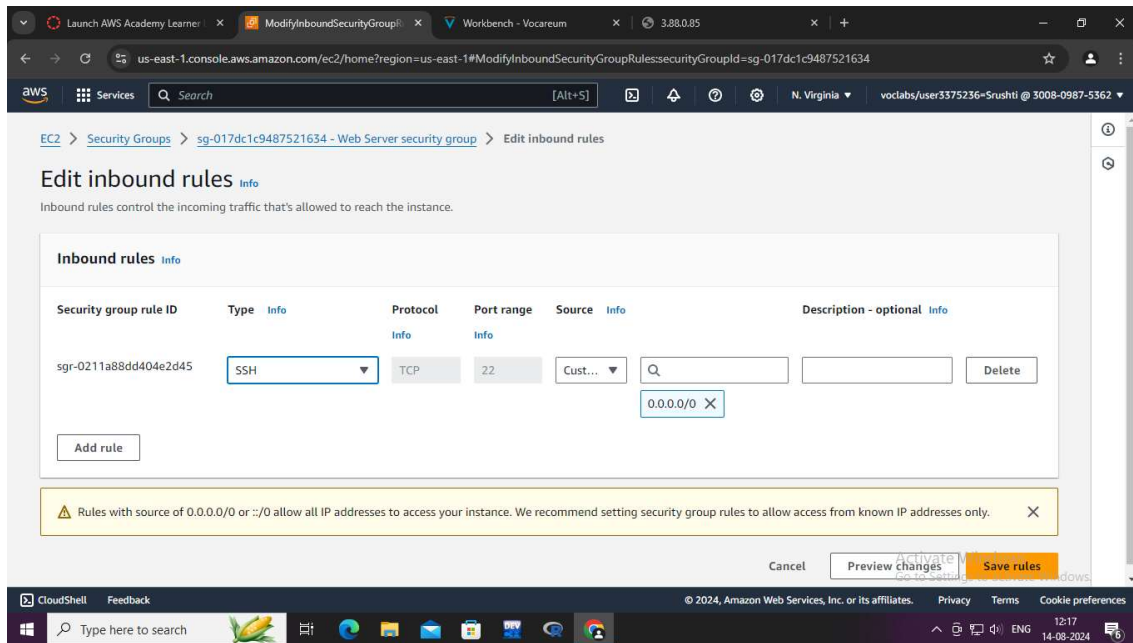
The screenshot shows the AWS Management Console interface. The left sidebar contains navigation links for Snapshots, Lifecycle Manager, Network & Security, Load Balancing, and Auto Scaling. The main content area displays the 'Security Groups (1/10)' page. A table lists the security groups, with the 'Web Server security group' (sg-017dc1c9487521634) selected. Below the table, the 'Details' tab is active, showing the 'Inbound rules' section. The console window title is 'us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroups:'. The bottom status bar shows the date and time as 12:17 on 14-08-2024.

Name	Security group ID	Security group name	VPC ID
launch-wizard-1	sg-098ba0145da1201b4	launch-wizard-1	vpc-0023adba117ccb851
launch-wizard-6	sg-002e480ddfb6502d1	launch-wizard-6	vpc-0023adba117ccb851
Web Server security group	sg-017dc1c9487521634	Web Server security group	vpc-0023adba117ccb851

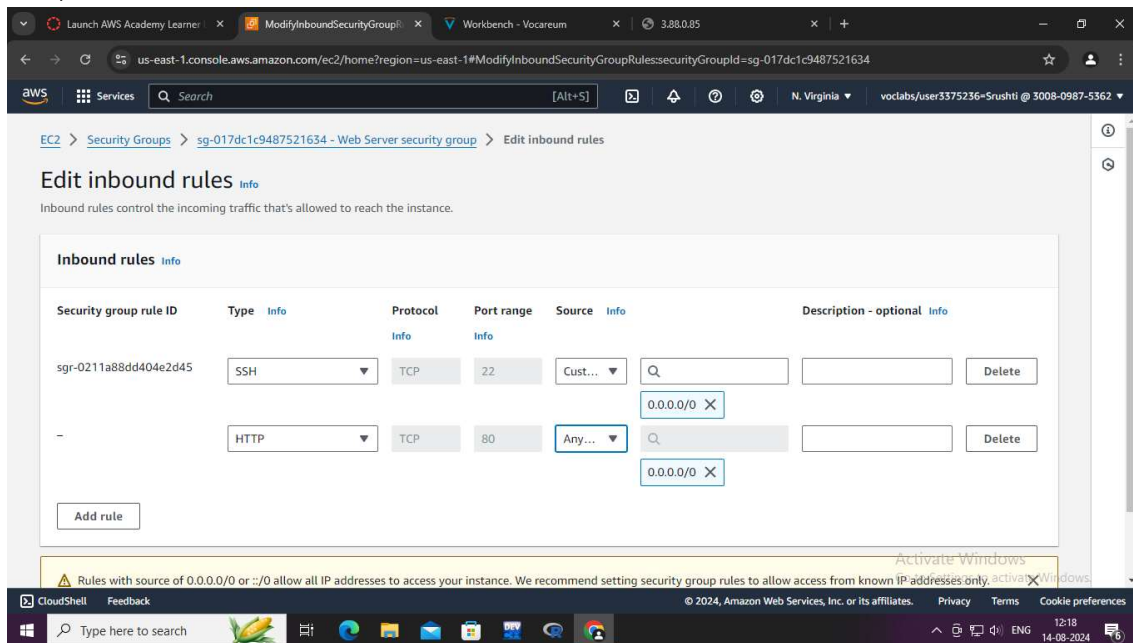
Step 17: Under Inbound rules choose Edit inbound rules



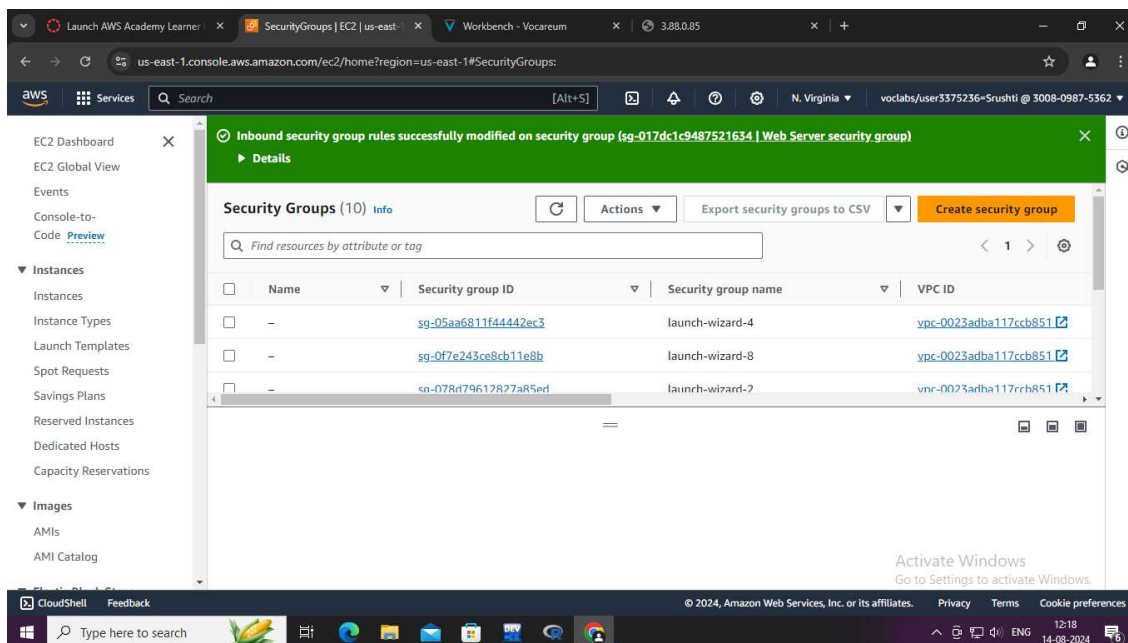
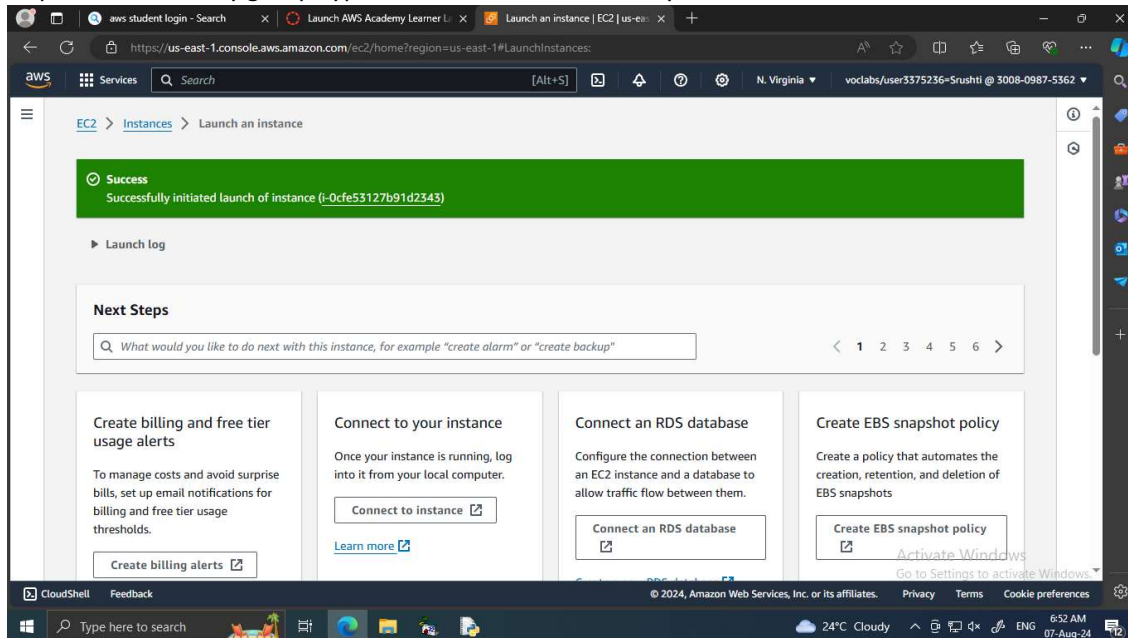
The screenshot shows the AWS Management Console interface, specifically the 'Inbound rules' section for the 'Web Server security group' (sg-017dc1c9487521634). The 'Inbound rules (1)' section is visible, and the 'Edit inbound rules' button is highlighted. The console window title is 'us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#SecurityGroups:'. The bottom status bar shows the date and time as 12:17 on 14-08-2024.



Then,click on Add rule



Step 18: Give Security group Type as HTTP and Source as Anywhere IPv4 and click->Save rule



Now we can able to see that web page is working

