Assignment : 4

Name:-Srushti Dattatray Pawar

Class:-MSc.CS Part 2

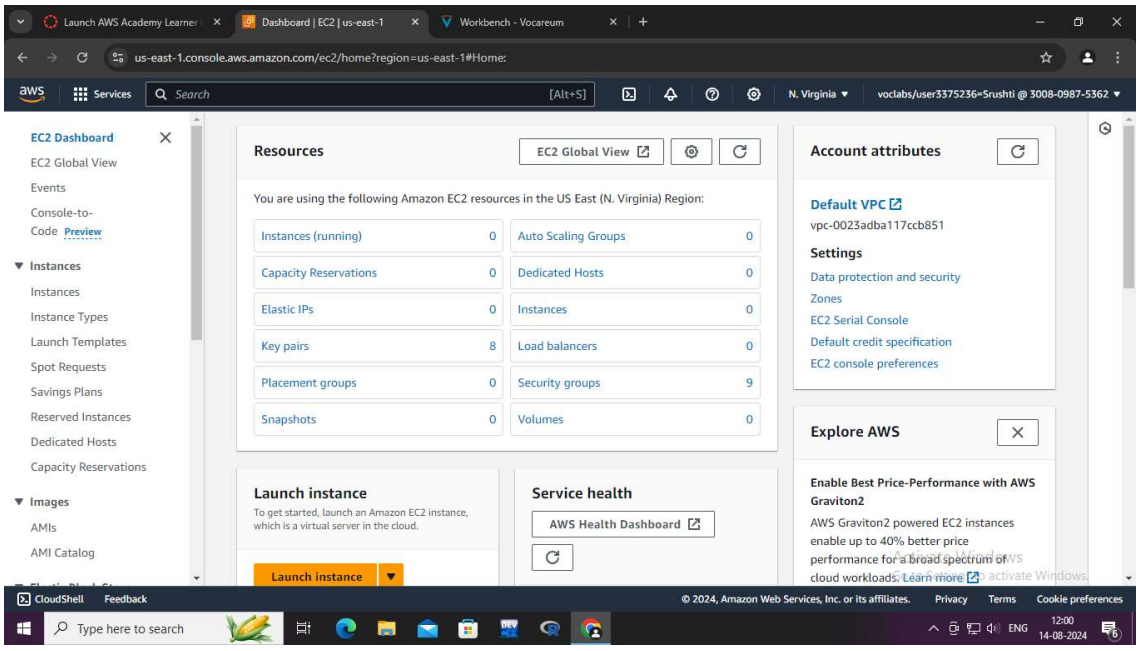
Q.)Working and implememtation of Infrastruture as a service

Task 1: Launch Your Amazon EC2 Instance. Write the shell script in 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 Task 2: Monitor Your Instance Task 3: Update Your Security Group and Access the Web Server Task 4: Resize Your Instance: Instance Type and EBS Volume Task 5: Test Termination Protection.

(Use AWS Platform)

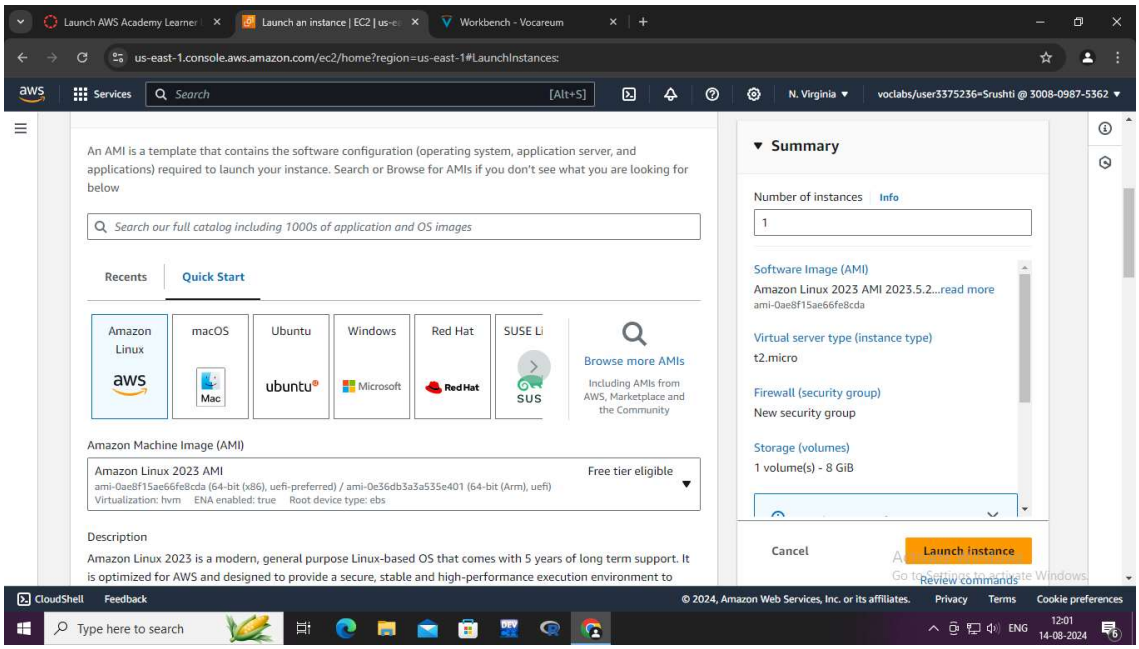
Step 1:Login in to your AWS account and go to service->Compute->EC2

Step2:Click on Launch Instance

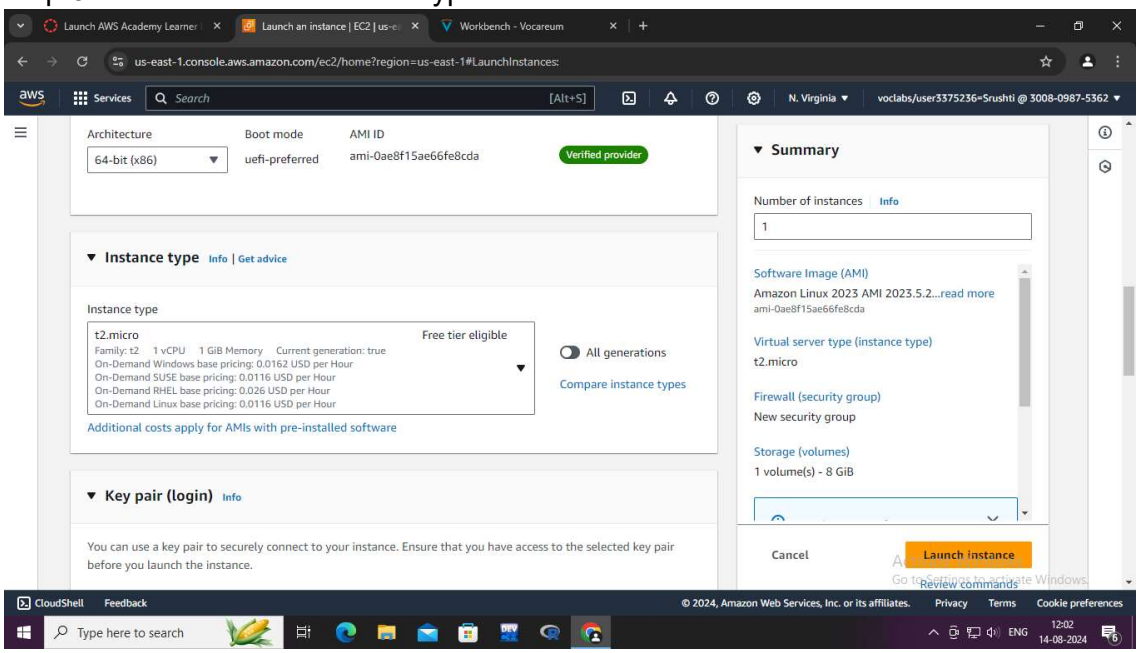


Step3:Now in Name and tags,you can give name to the instance.Here I give name as Web Server

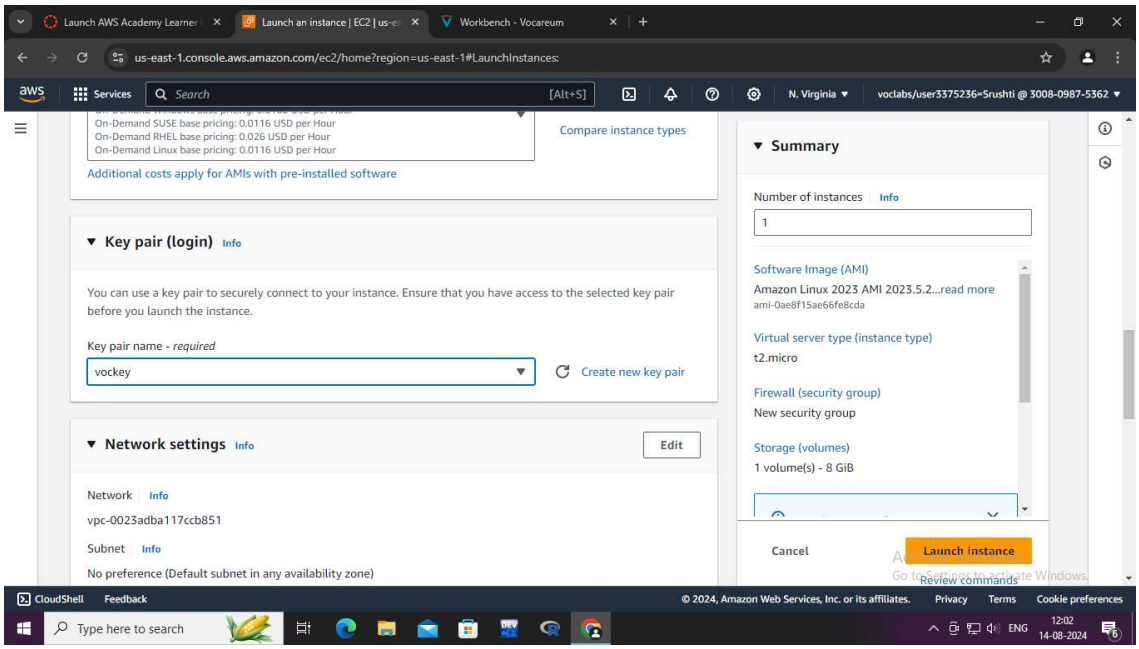
Step 4:Select Linux under QuickStart and select Amazon Linux 2023 AMI



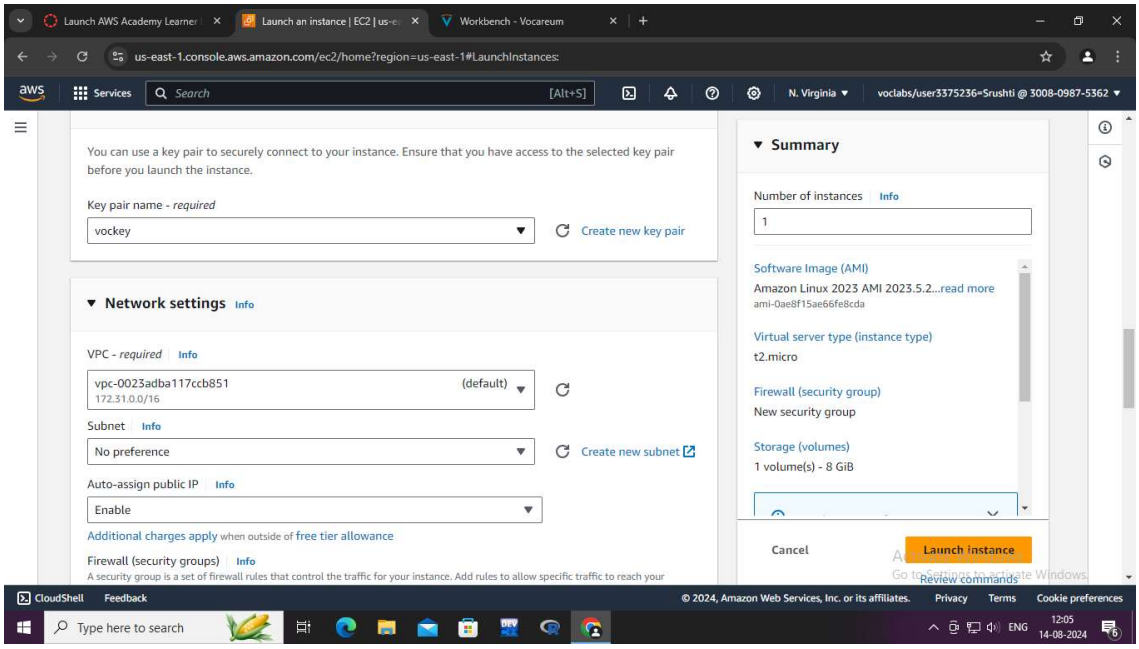
Step 5:Select t2.micro instance type

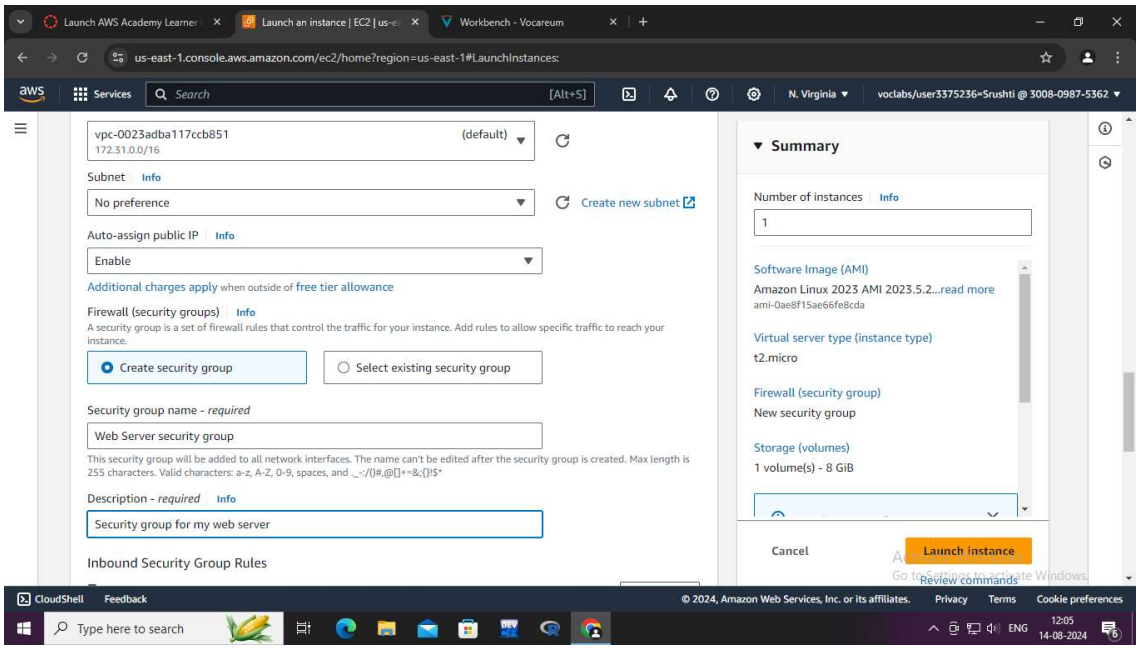


Step 6:In the key pair,select vockey from the dropdown list.And in networking settings,select lab VPC

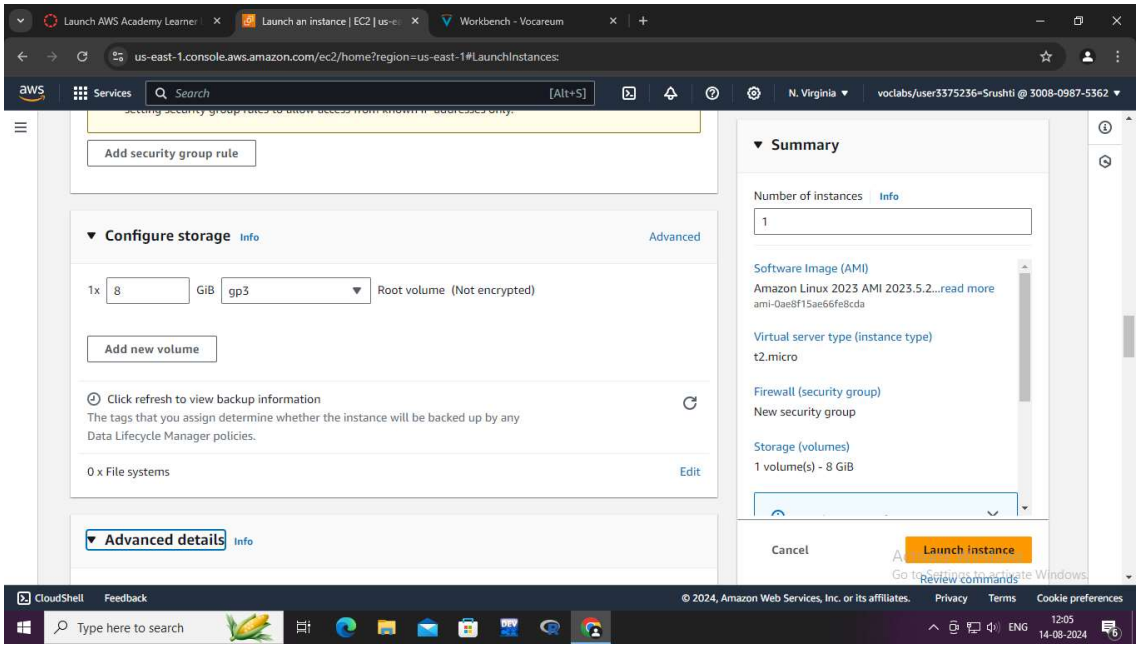


Step 7:Give security group name as Web Server Security Group and description as Security group for my web server

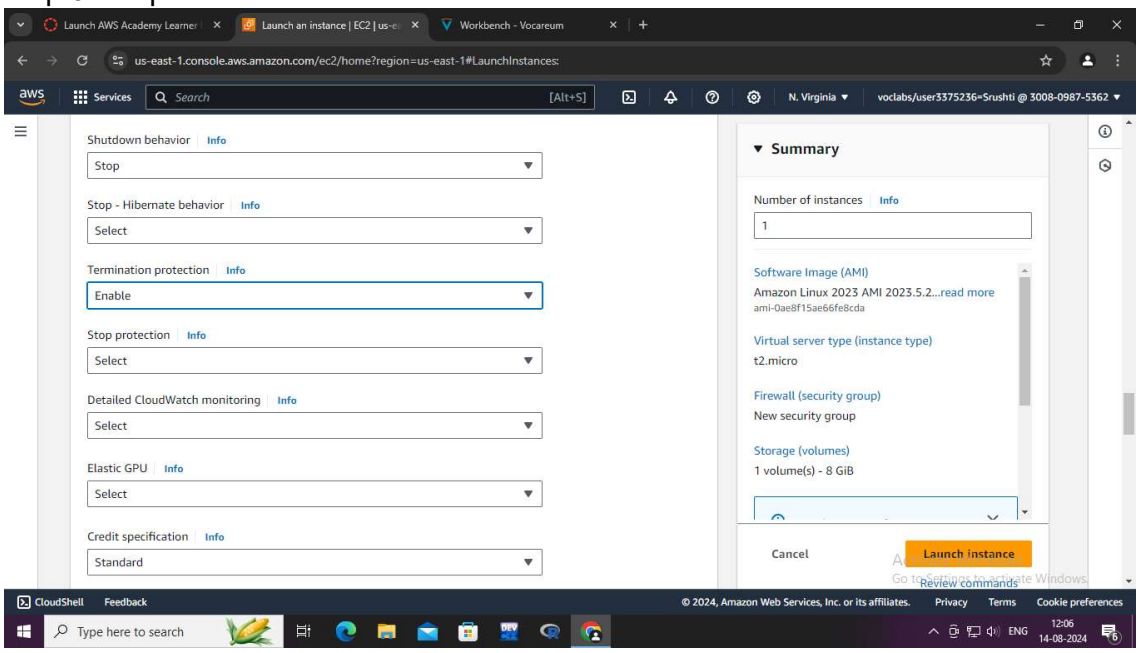


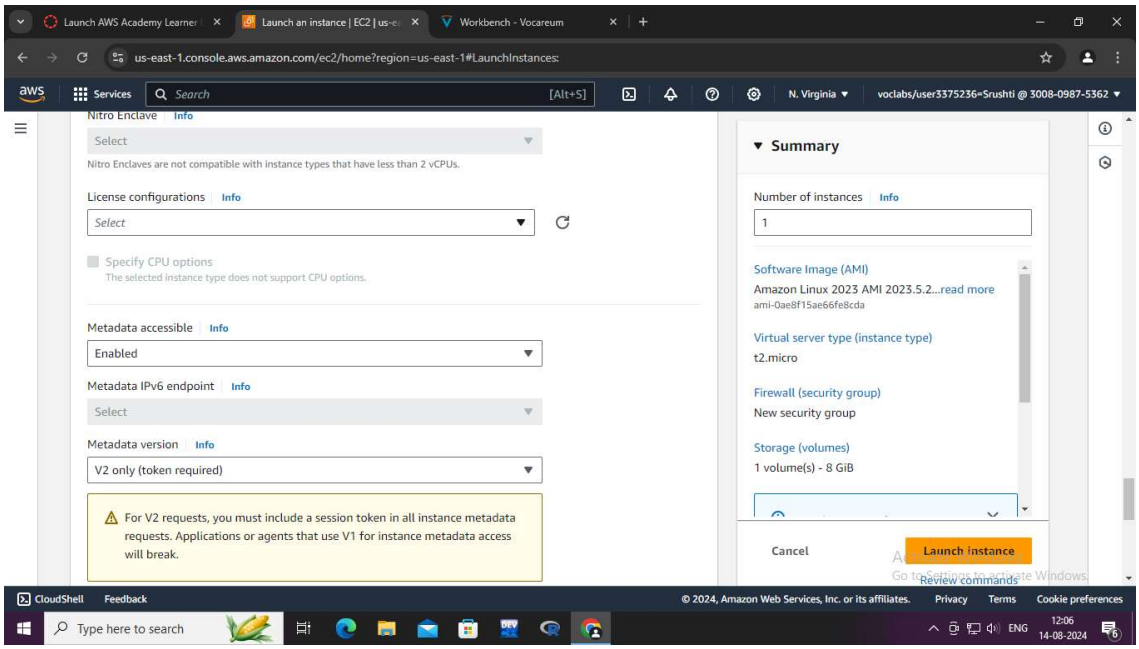


Step 8:Remove the inbound security group rules

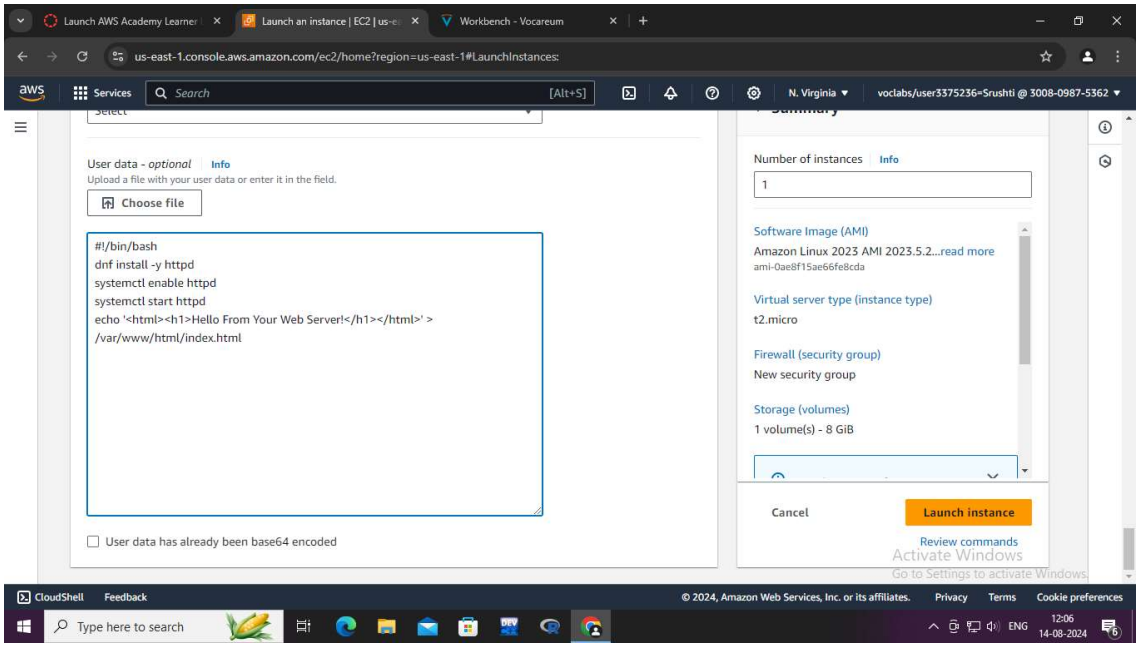


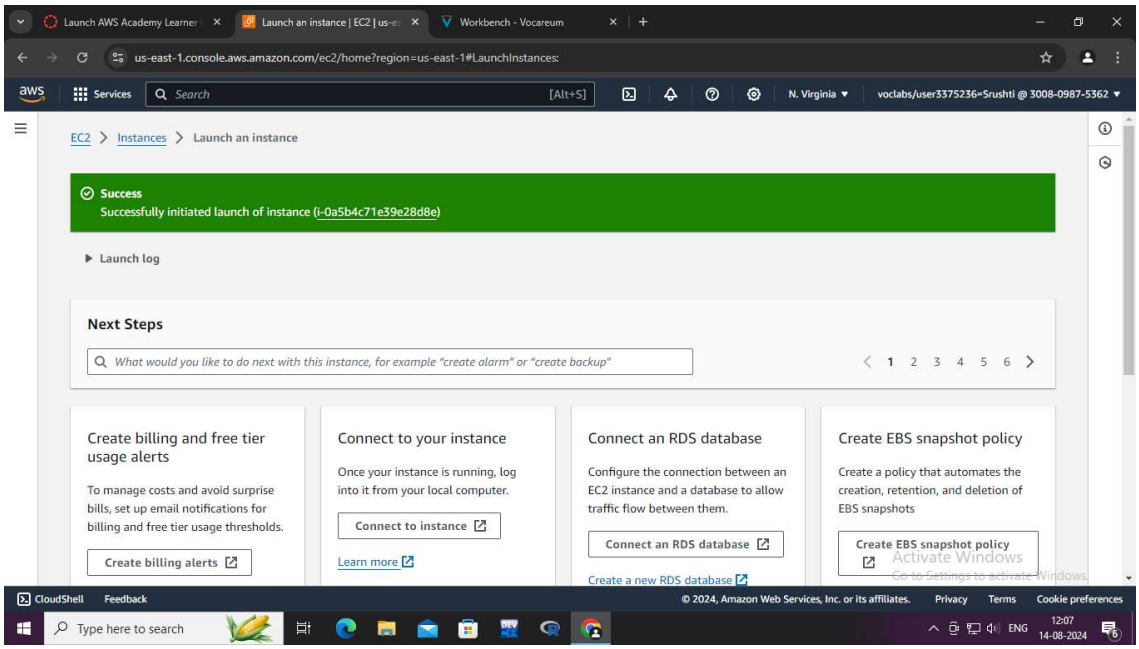
Step 9:Keep Termination Protection enable



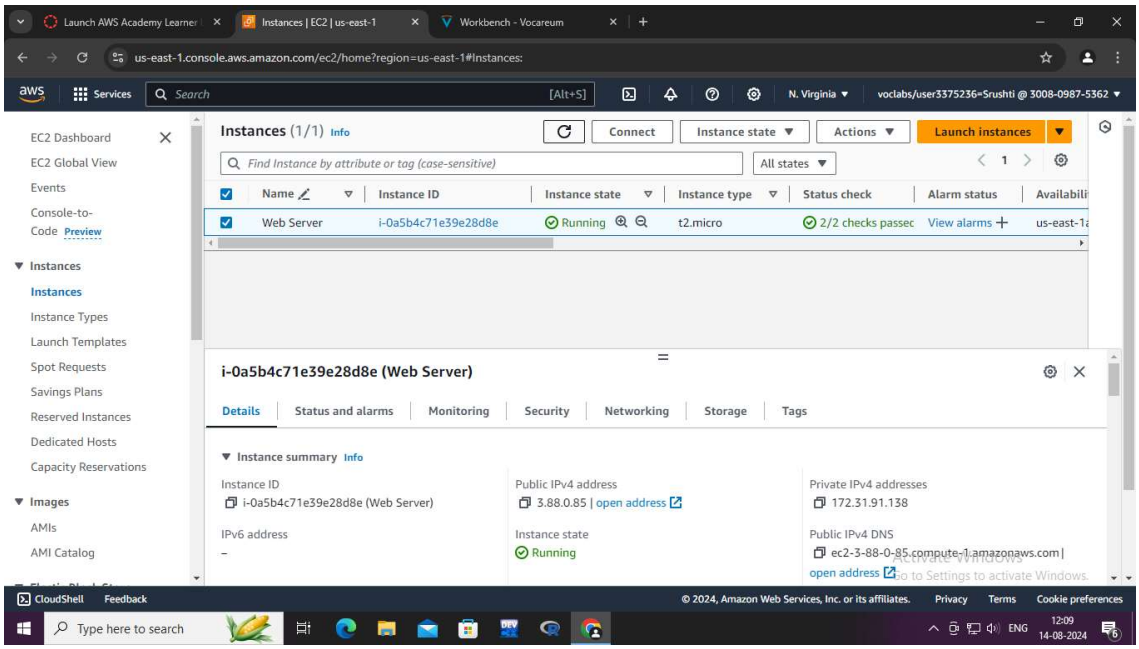


Step 10:Enter the user data to install httpd and click->Launch instance

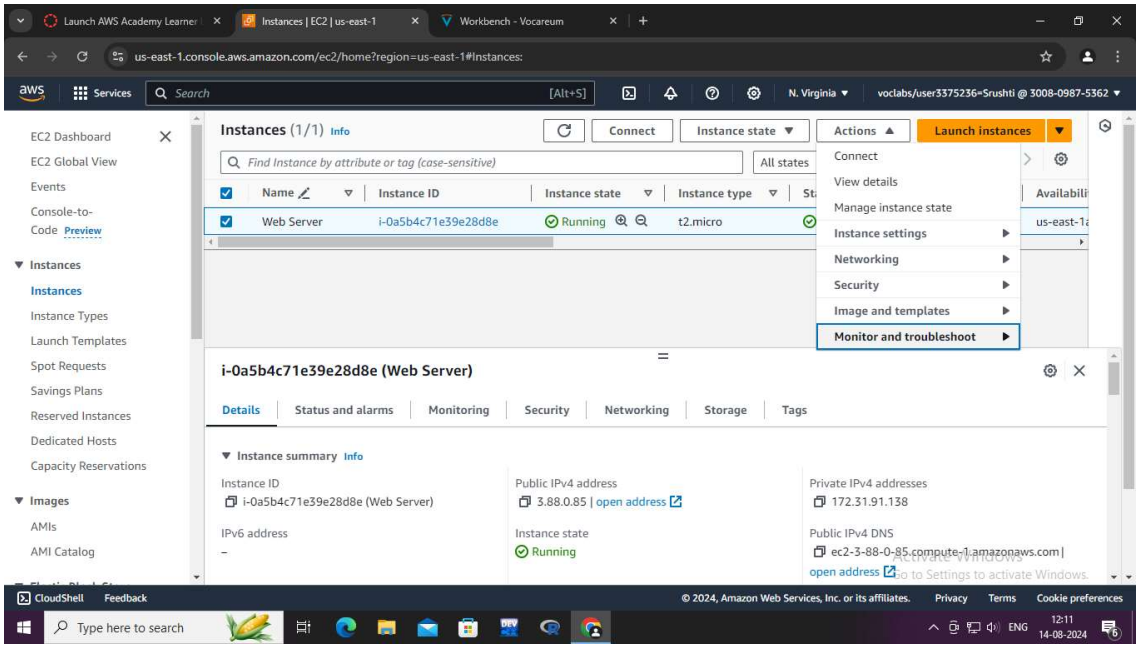




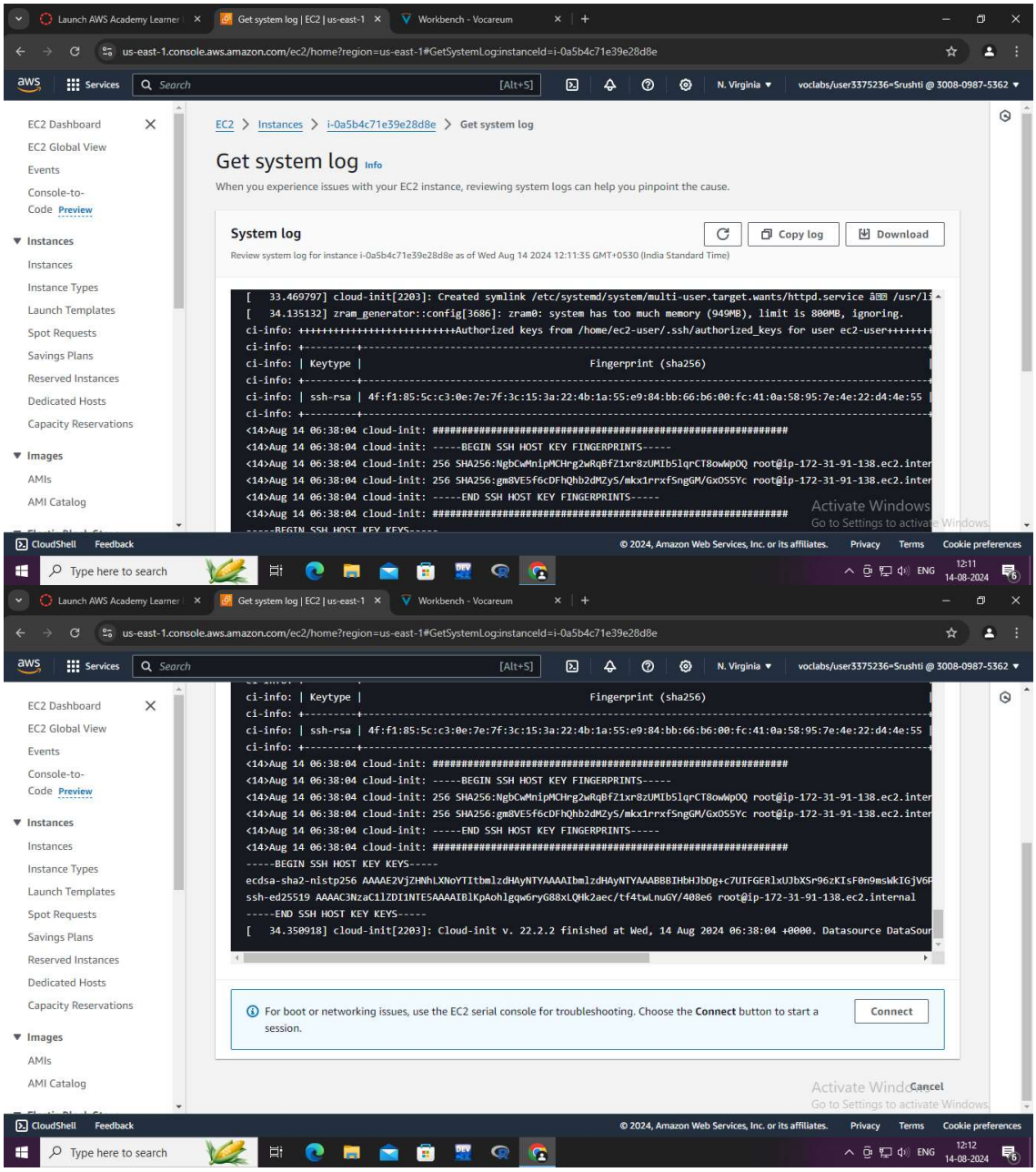
Step 11: Here you can see your instances and wait for some time till status check 2/2 and instance state running.

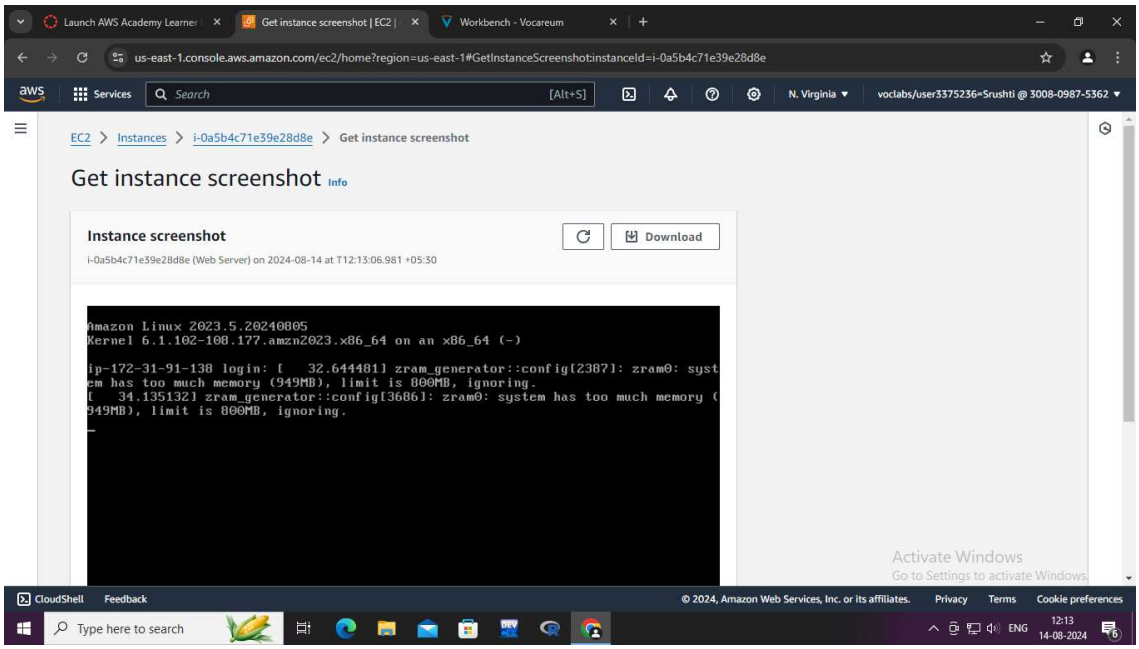


Step 12:Monitor your instance by choosing Actions->Monitor & troubleshoot->Get System log for displaying system log

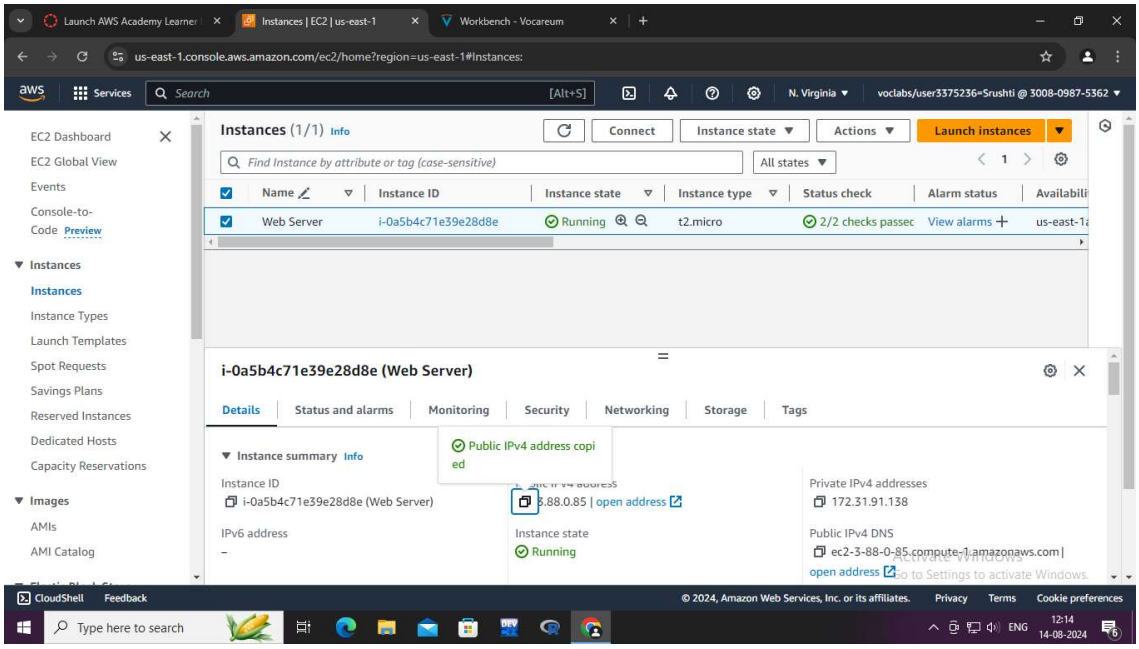


Here,we see our vockey key entry has been displayed under ssh-rsa info,then click->cancel

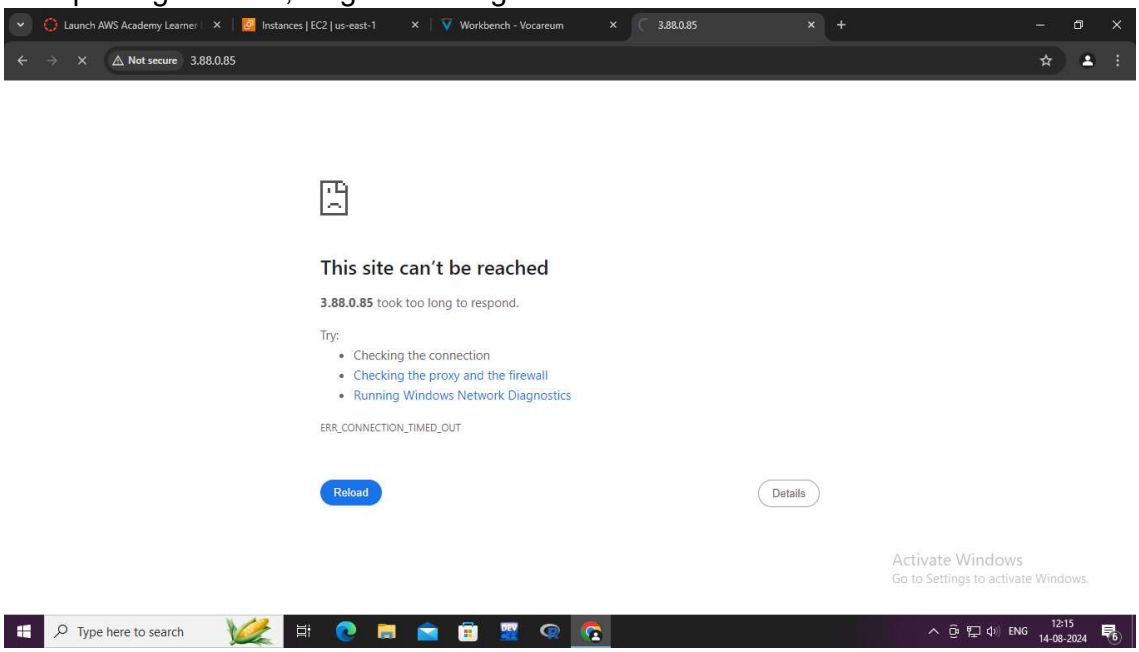

Launch AWS Academy Learner
Get system log | EC2 | us-east-1
Workbench - Vocareum
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#GetSystemLog:instanceId=i-0a5b4c71e39e28d8e
Services
Search
[Alt+S]
N. Virginia
voclabs/user3375236=Srushti @ 3008-0987-5362
EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
EC2 > Instances > i-0a5b4c71e39e28d8e > Get system log
Get system log Info
When you experience issues with your EC2 instance, reviewing system logs can help you pinpoint the cause.
System log
Copy log
Download
Review system log for instance i-0a5b4c71e39e28d8e as of Wed Aug 14 2024 12:11:35 GMT+0530 (India Standard Time)
[33.469797] cloud-init[2203]: Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service â /usr/li
[34.135132] zram_generator::config[3686]: zram0: system has too much memory (949MB), limit is 800MB, ignoring.
ci-info: ++++++++++++++++++++++++++++Authorized keys from /home/ec2-user/.ssh/authorized_keys for user ec2-user++++++++
ci-info: +---------+
ci-info: | Keytype | Fingerprint (sha256)
ci-info: +---------+
ci-info: | ssh-rsa | 4f:f1:85:5c:c3:0e:7e:7f:3c:15:3a:22:4b:1a:55:e9:84:bb:66:b6:00:fc:41:0a:58:95:7e:4e:22:d4:4e:55
ci-info: +---------+
<14>Aug 14 06:38:04 cloud-init: ###
<14>Aug 14 06:38:04 cloud-init: -----BEGIN SSH HOST KEY FINGERPRINTS-----
<14>Aug 14 06:38:04 cloud-init: 256 SHA256:NgbCwMnipMCHrg2wRqBfZ1xr8zUMIb5lqrCT8owWpOQ root@ip-172-31-91-138.ec2.inter
<14>Aug 14 06:38:04 cloud-init: 256 SHA256:gm8VE5f6cDFhQhb2dMZyS/mkx1rrxfSngGM/GxOS5Yc root@ip-172-31-91-138.ec2.inter
<14>Aug 14 06:38:04 cloud-init: -----END SSH HOST KEY FINGERPRINTS-----
<14>Aug 14 06:38:04 cloud-init: ###
-----BEGIN SSH HOST KEY KEYS-----
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
ENG
12:11
14-08-2024
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBIHbHJbDg+c7UIFGERlxUJbXSr96zKIsF0n9mswkIGjV6F
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIBlKpAohlgqw6ryG88xLQHk2aec/tf4twLnuGY/408e6 root@ip-172-31-91-138.ec2.internal
-----END SSH HOST KEY KEYS-----
[34.350918] cloud-init[2203]: Cloud-init v. 22.2.2 finished at Wed, 14 Aug 2024 06:38:04 +0000. Datasource DataSour
For boot or networking issues, use the EC2 serial console for troubleshooting. Choose the Connect button to start a session.
Connect
Cancel
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
ENG
12:12
14-08-2024



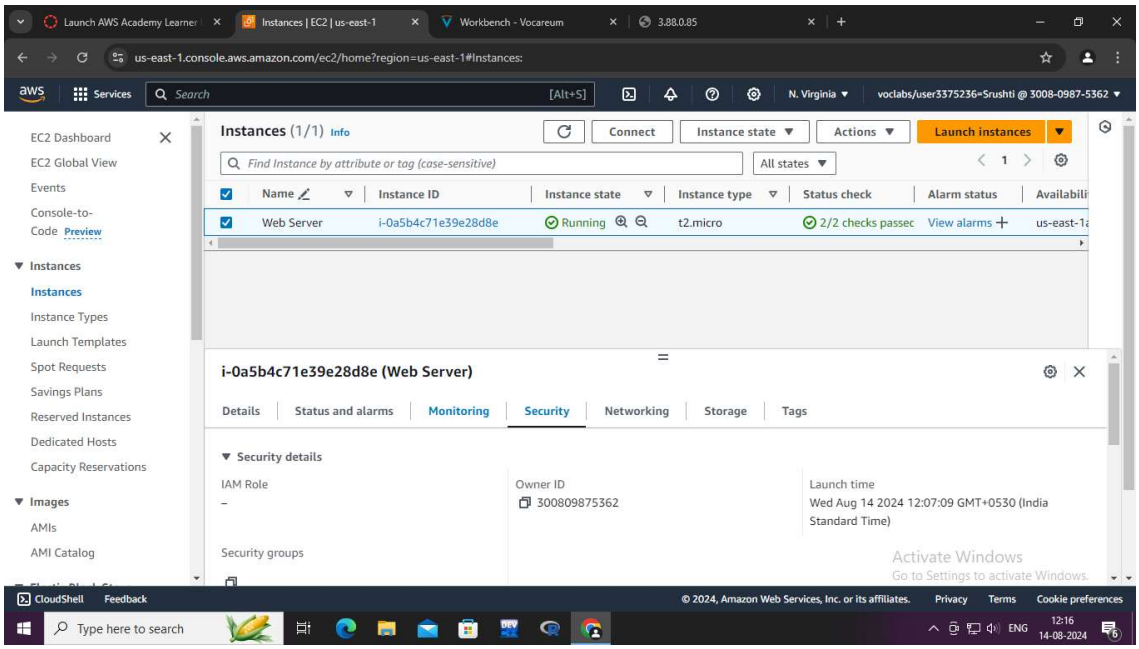
Step 13:Now choose Actions->Monitor & troubleshoot->Get Instance Screenshot



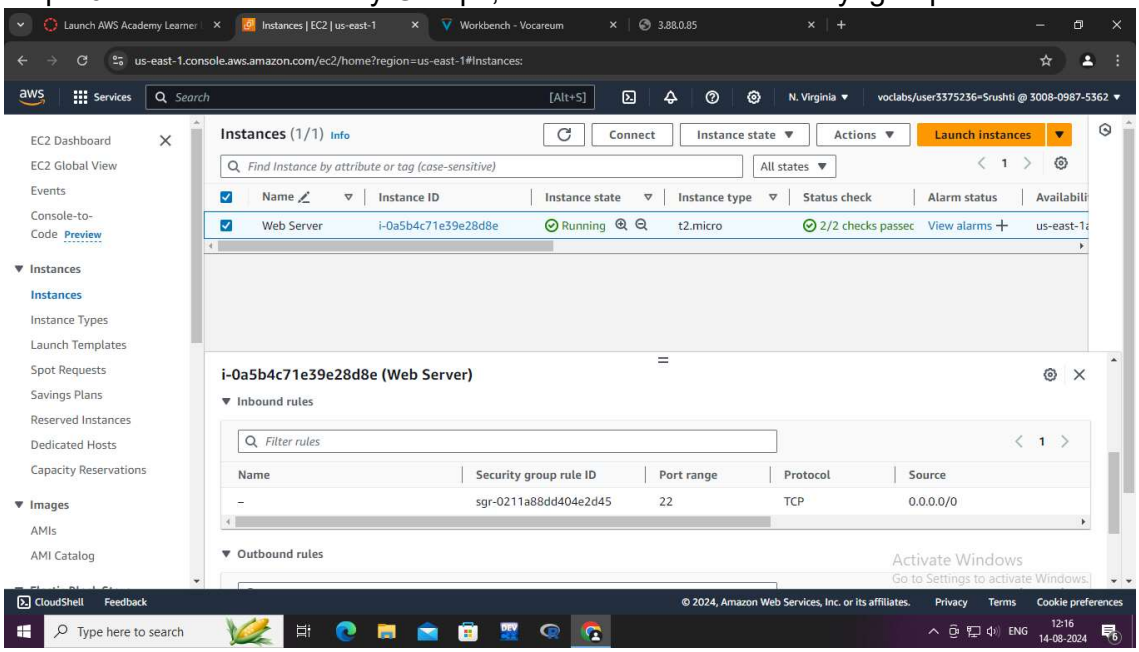
After pasting address,we get following screen



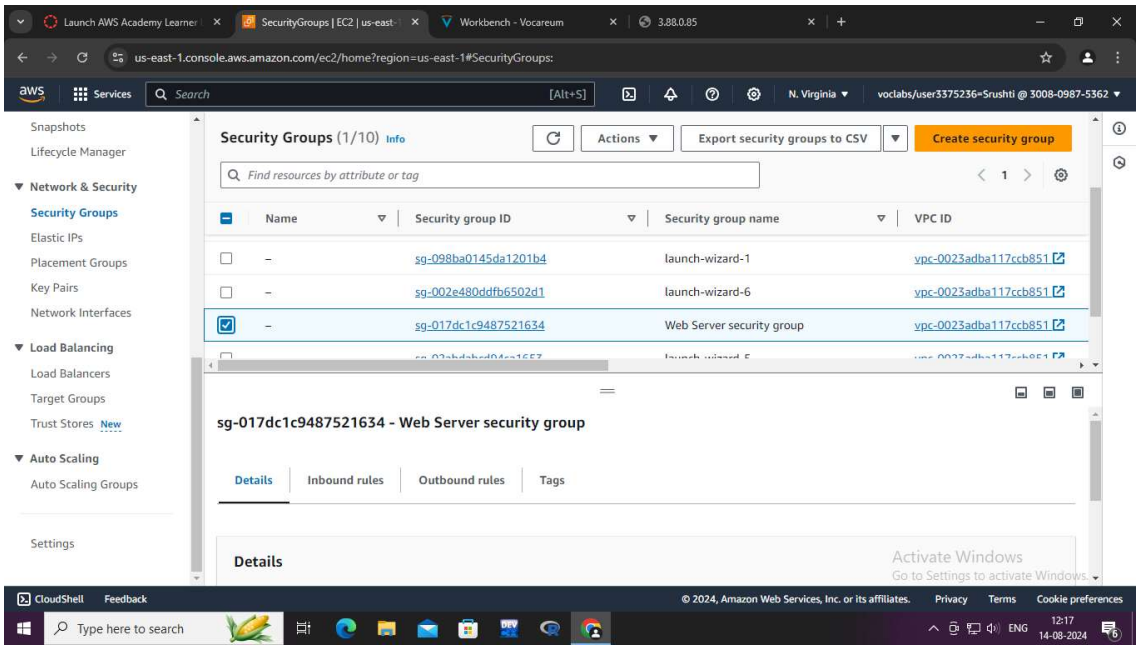
Step 15:Go back to EC2 tab



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

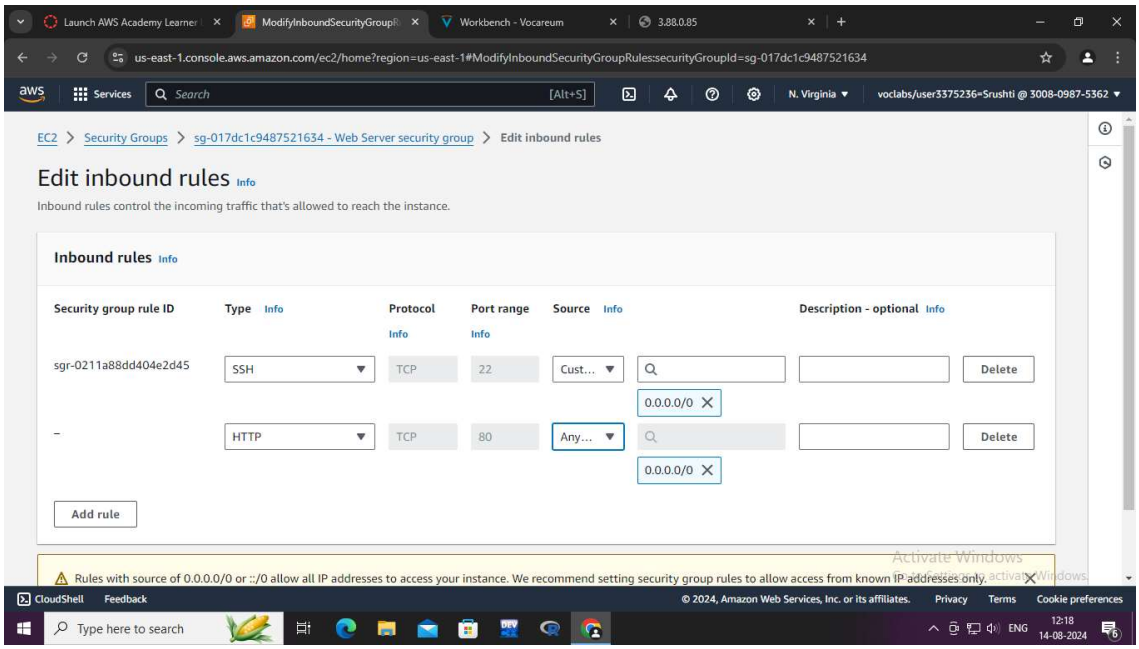


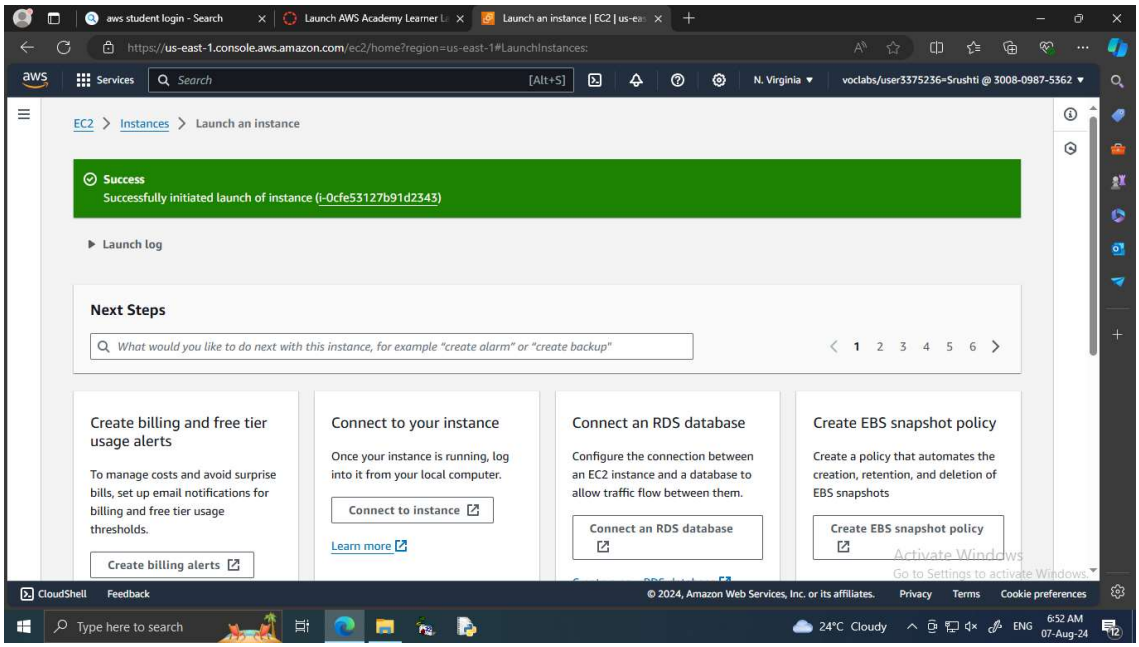
Step 17:Under Inbound rules choose Edit inbound rules

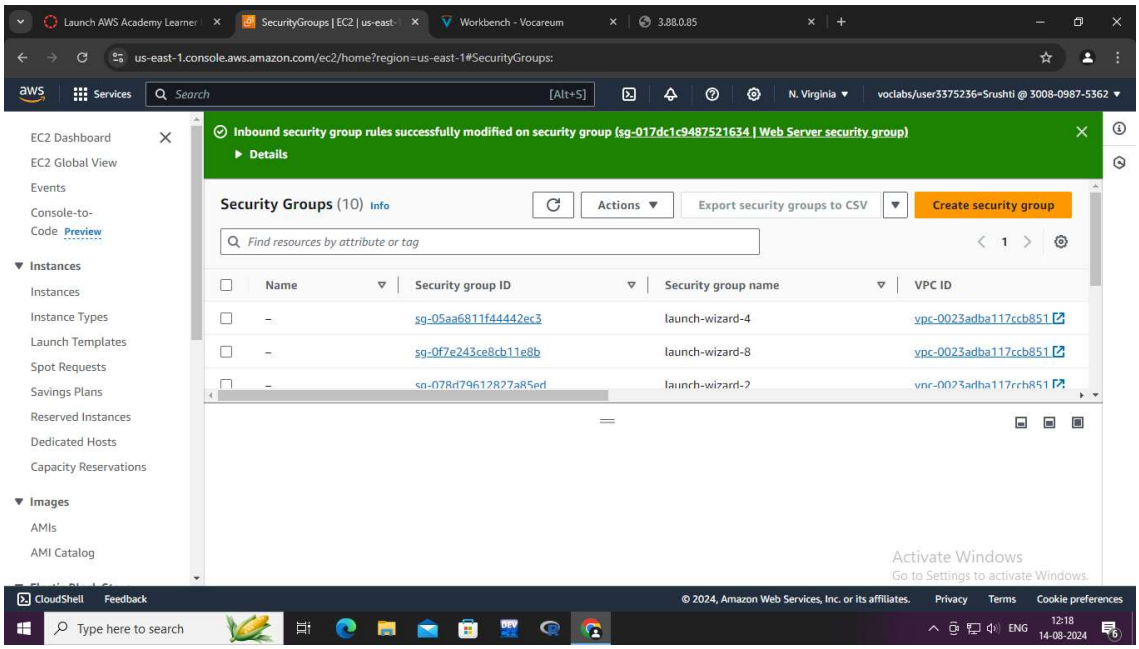


Then,click on Add rule

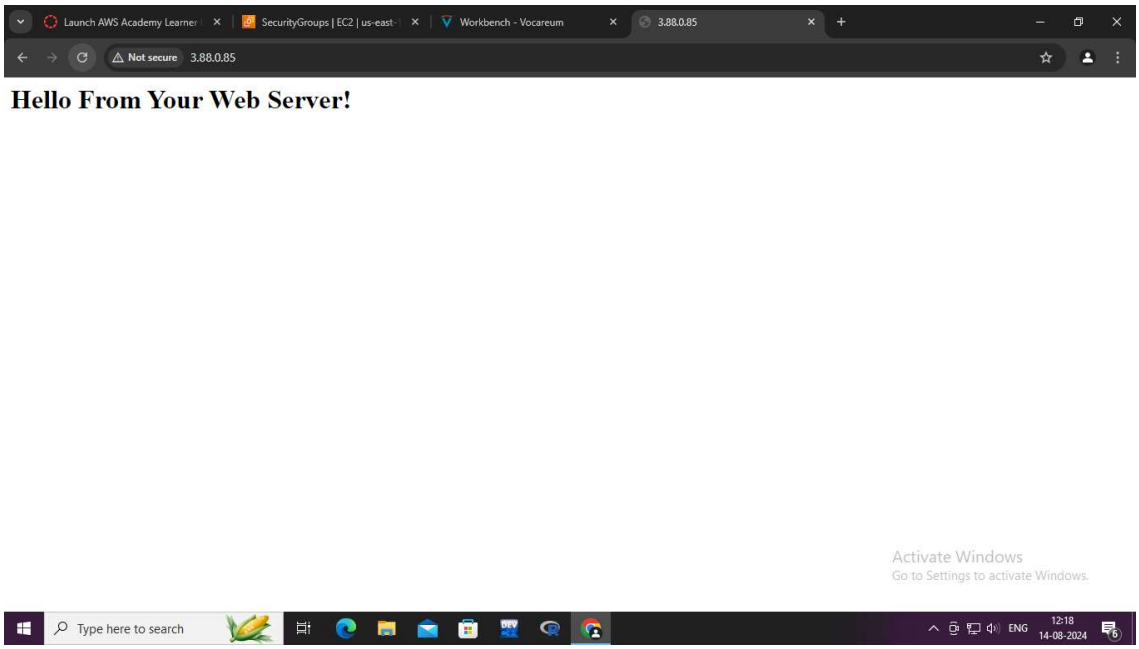
Step 18:Give Security group Type as HTTP and Source as Anywhere IPv4 and click->Save rules



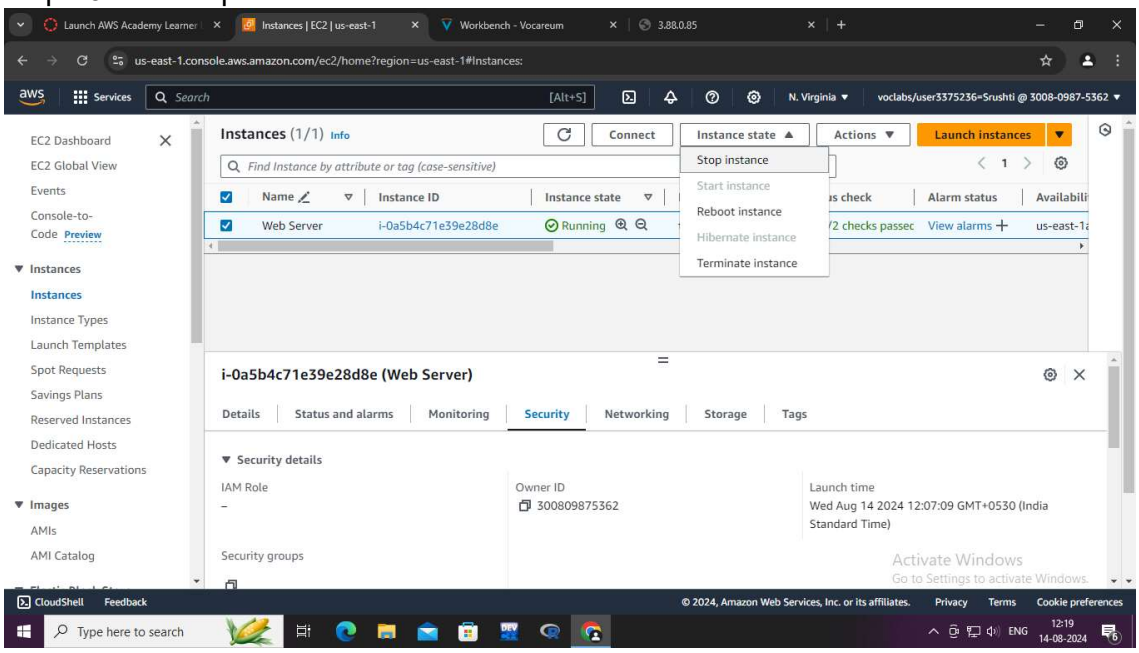




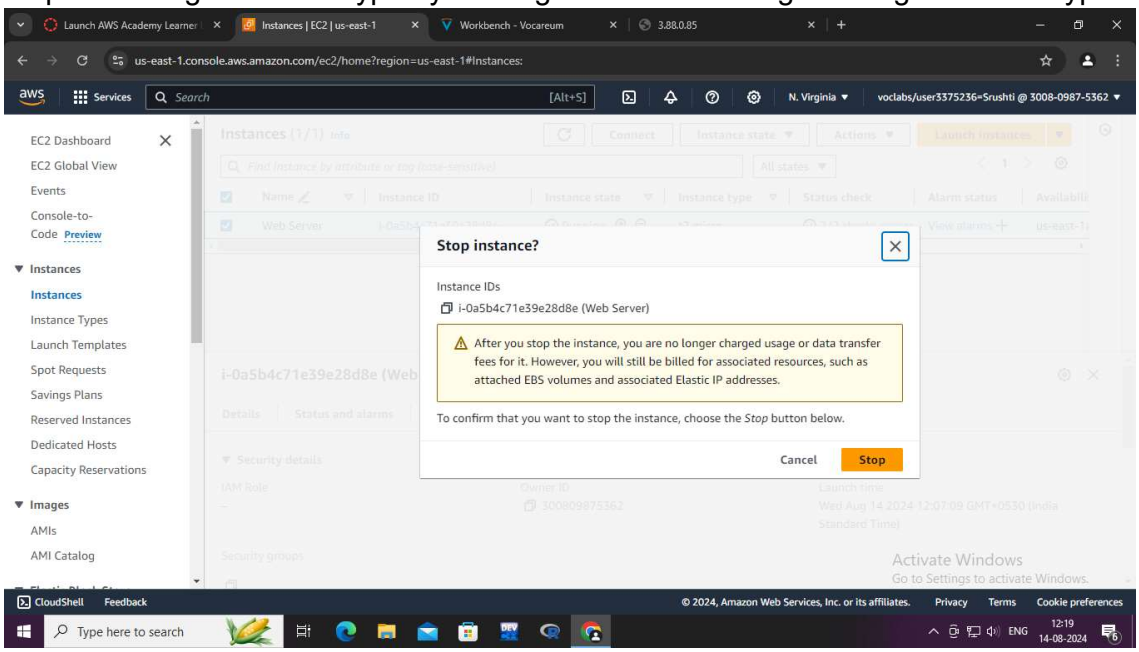
Now we can able to see script that we have written in user data



Step 19:Now stop the instance



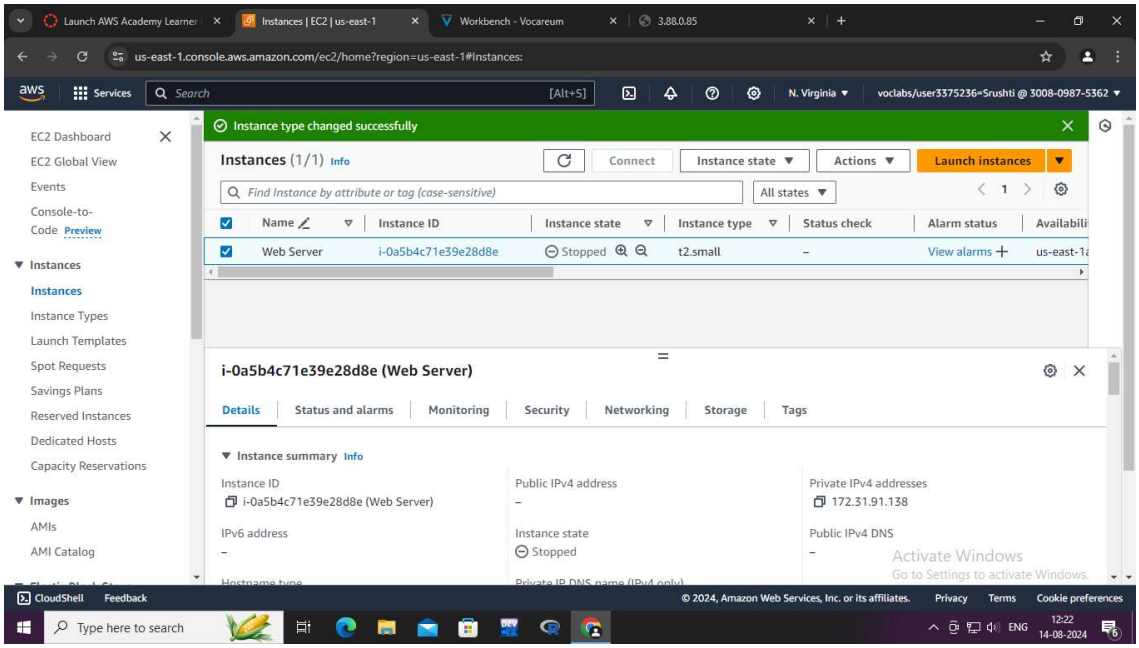
Step 20:Change instance type by clicking->Instance Setting->Change instance type

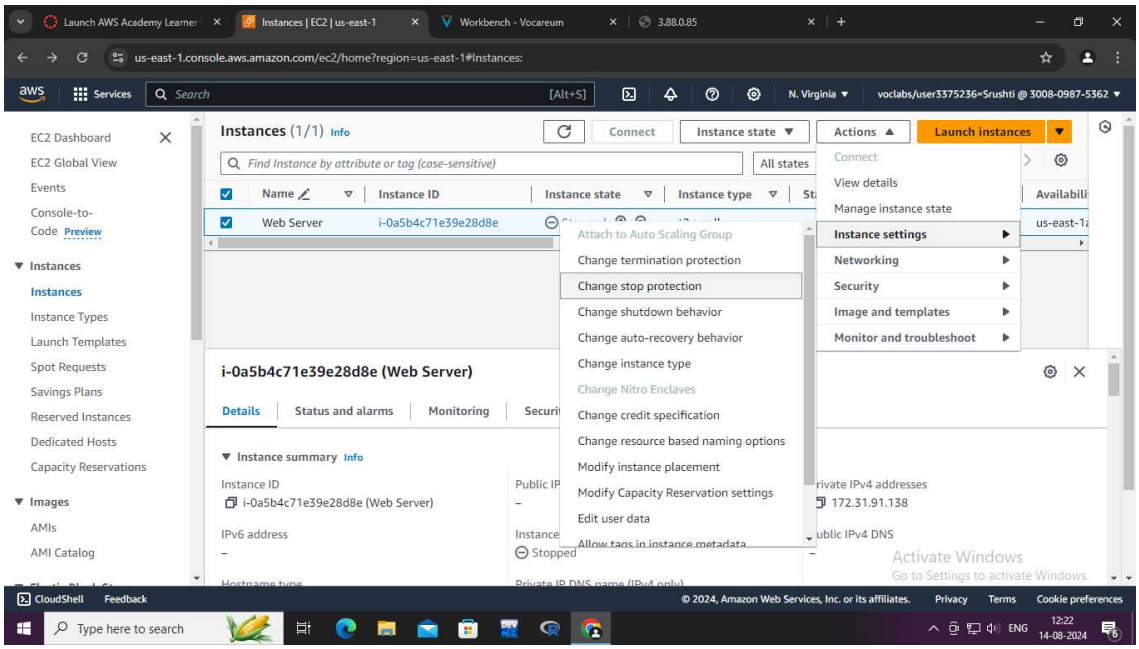


Step 21:Take instance type as t2.small,then click->change

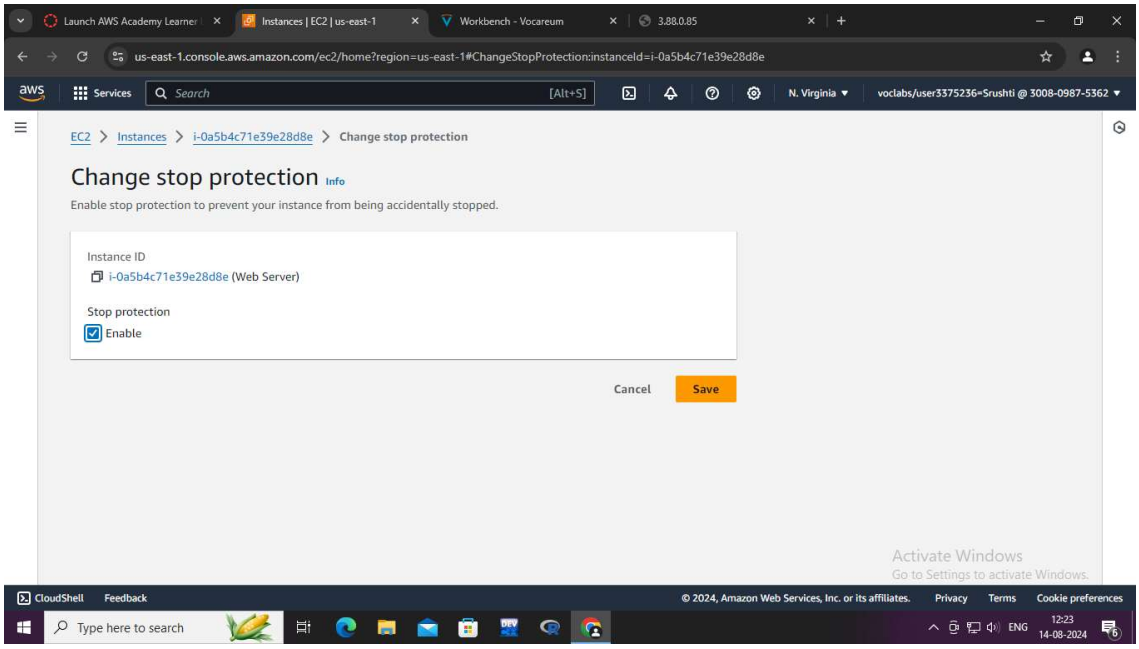
Here Instance type has been changed

Step 22:Now change the stop protection

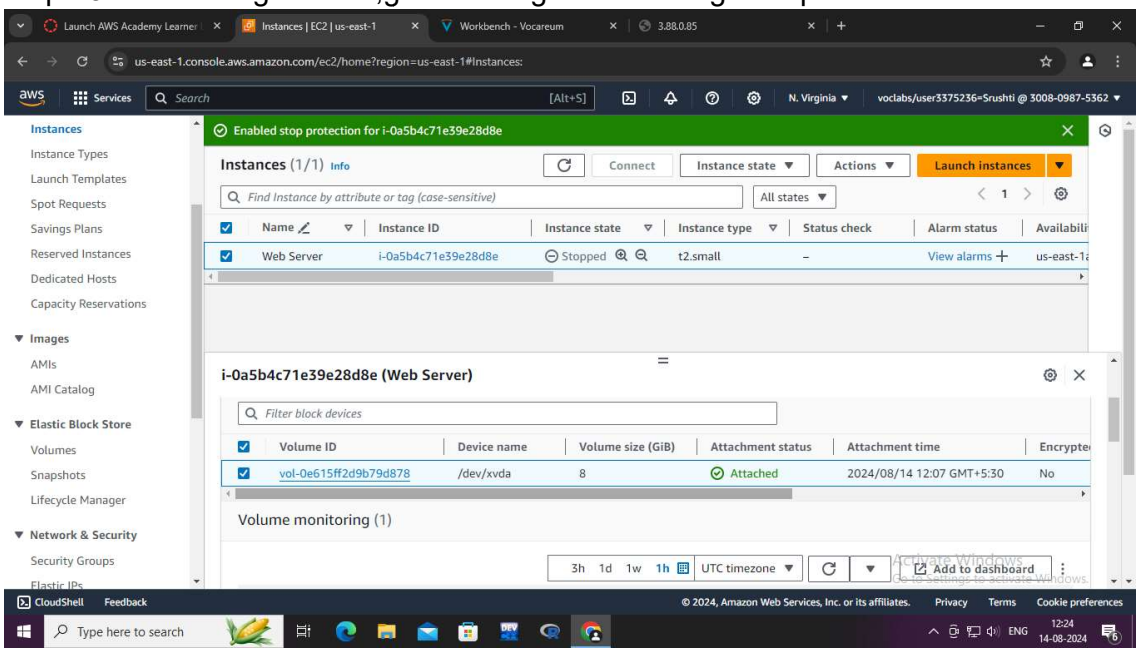




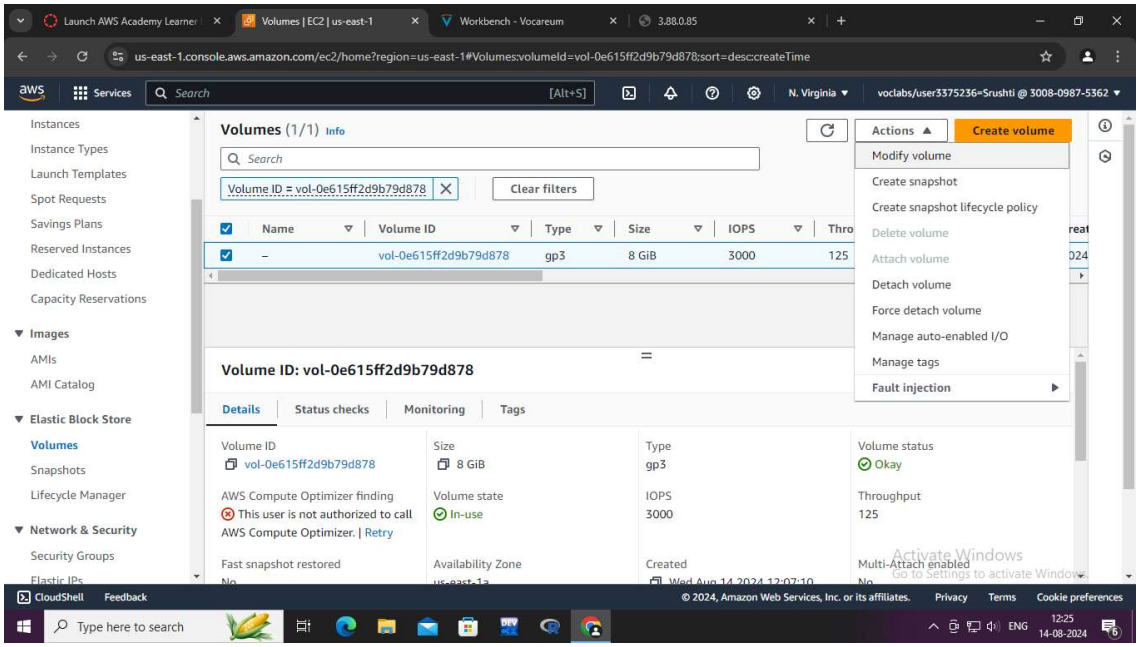
Select enable and save



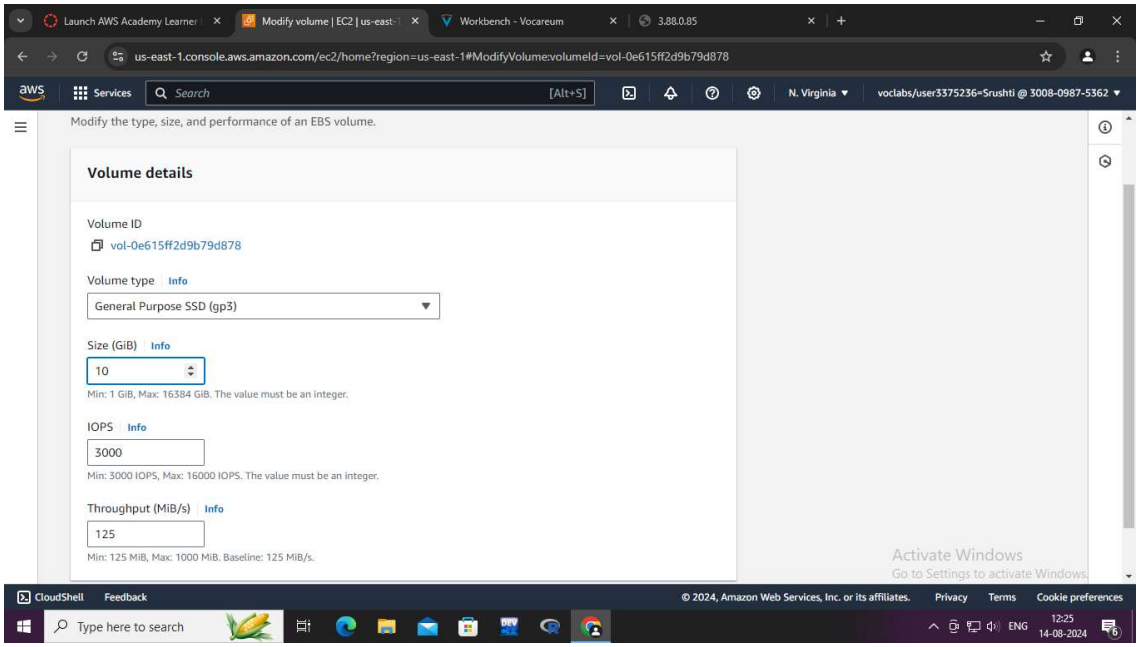
Step 23:For resizing volume,go to Storage at left navigation panel



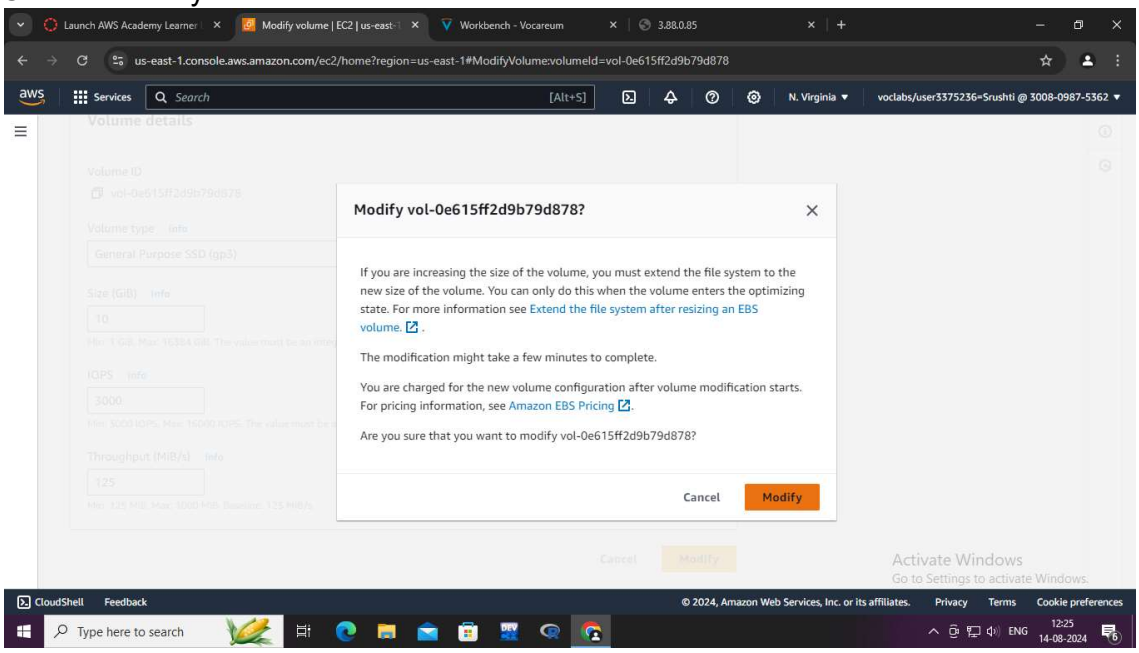
Step 24:Choose Actions->Modify volume



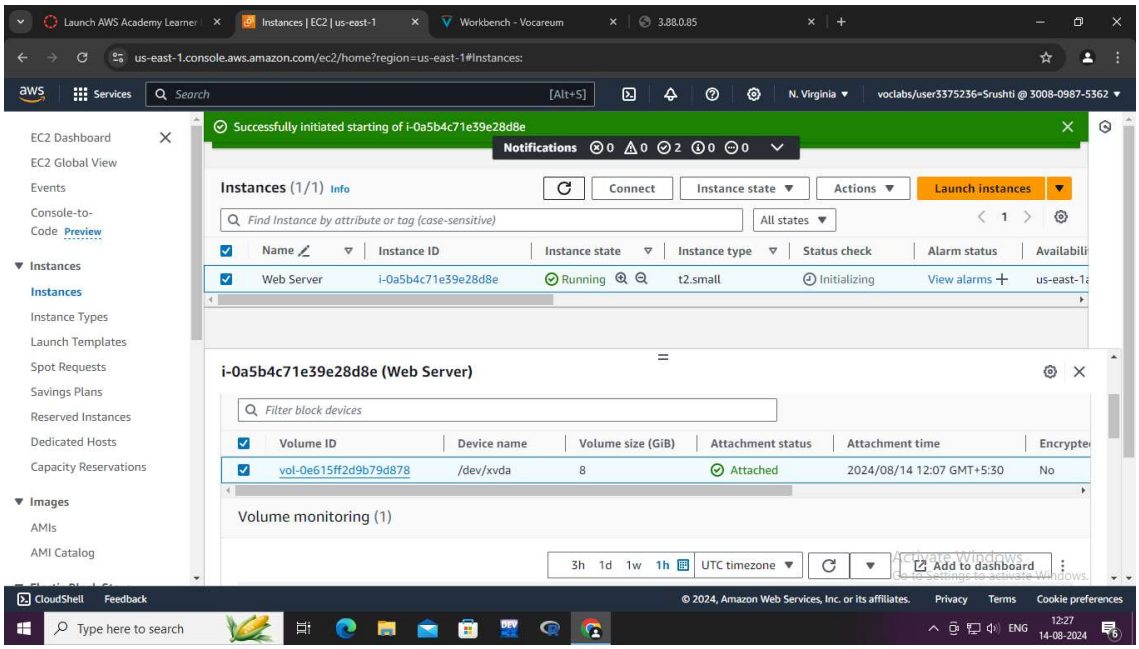
Step 24:Choose Actions->Modify volume



Click on modify



Step25:Again Start the resized instance ,by choosing instances state->start instance

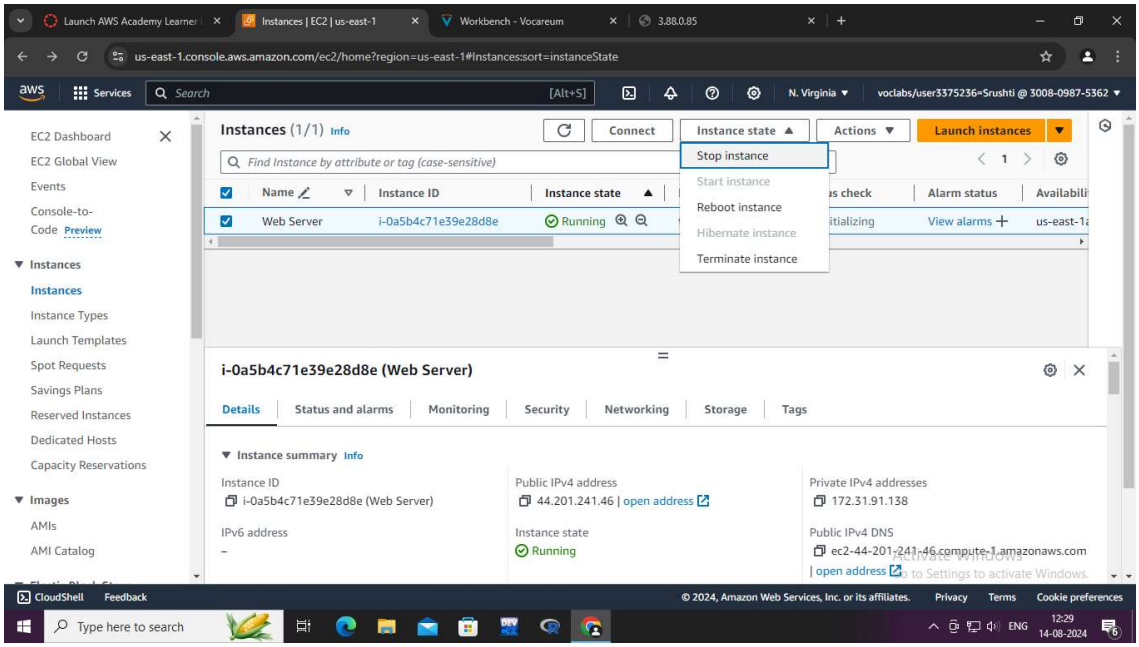


Step 26:Now in service tab search for Service Quotas

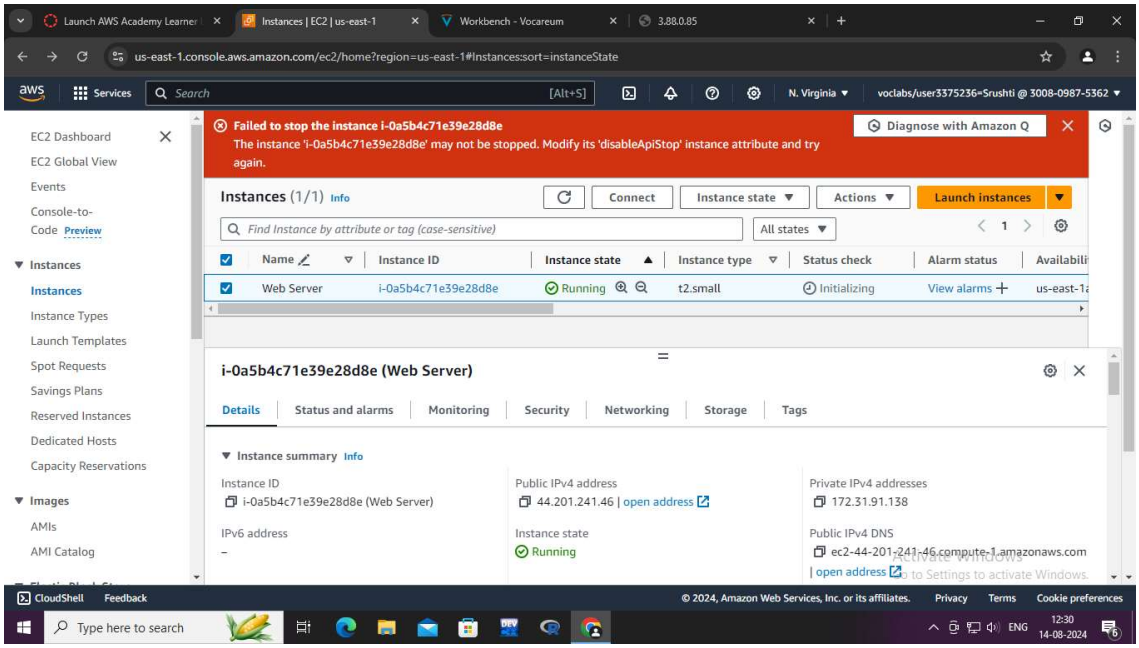
Step 27:Under Service Quotes select AWS services

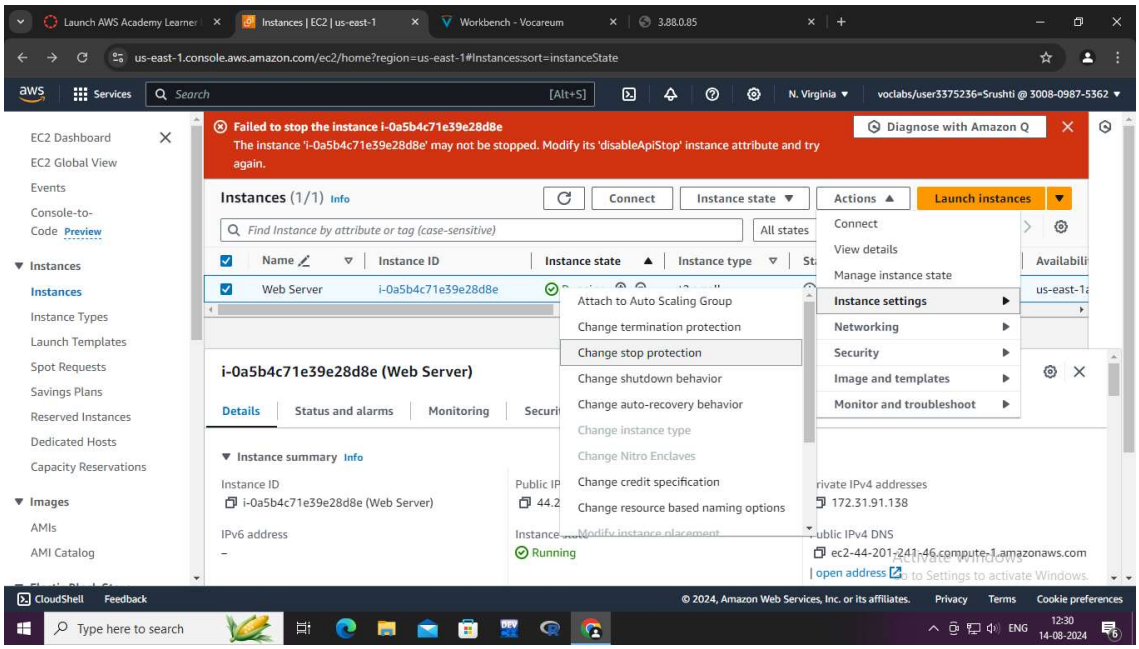
Step 28:Now go back to Instances,and Stop Web Server.Instance state->Stop instance

Step 28:In AWS services choose Amazon EC2 and search and observe for ‘running on-demand’

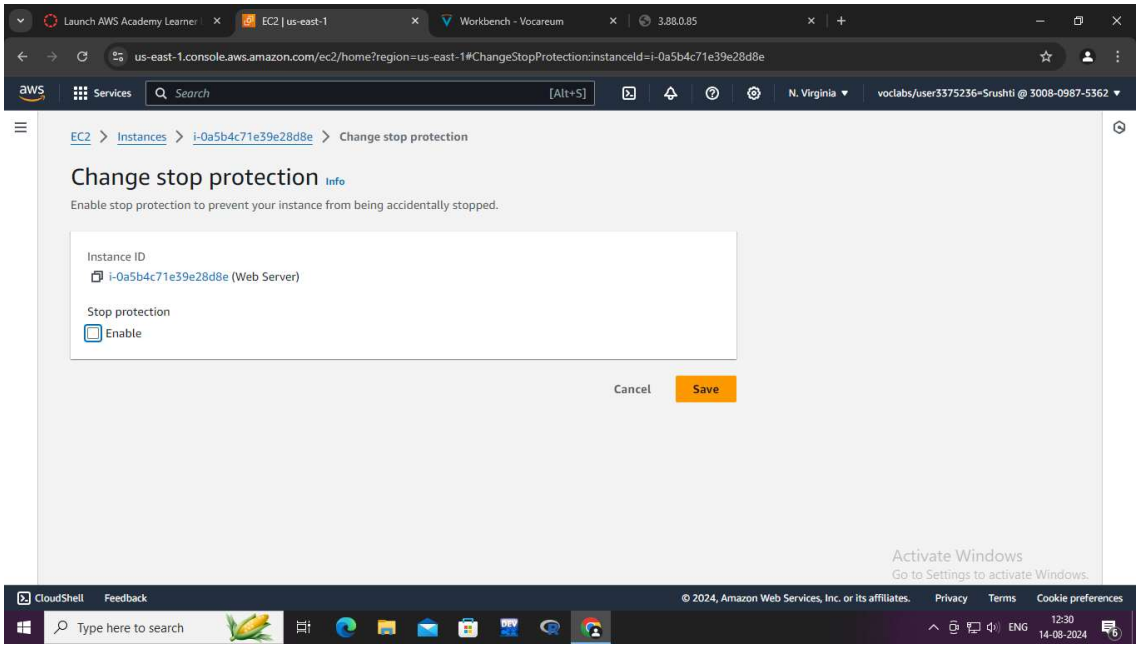


Step 29:Now change the stop protection

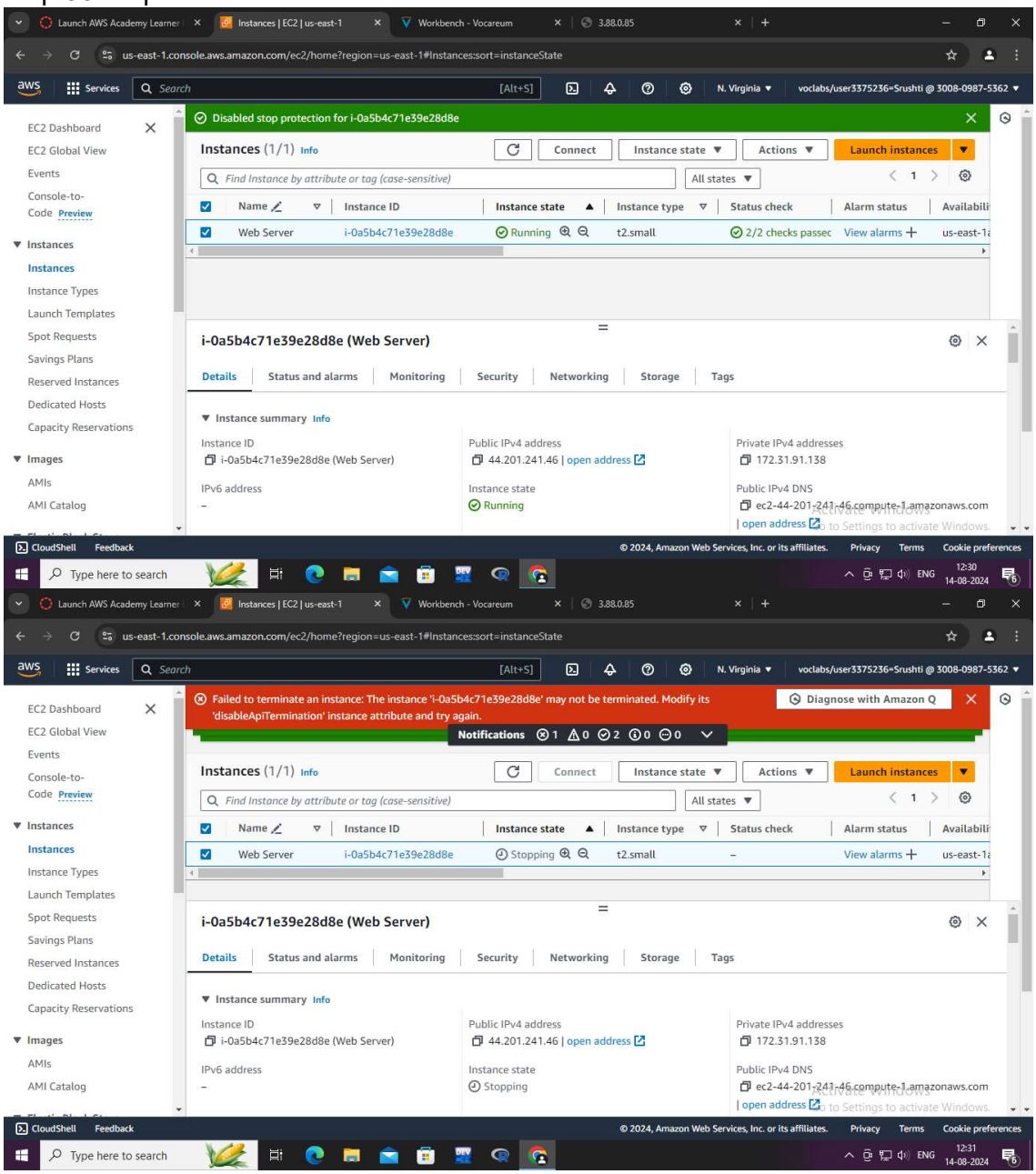


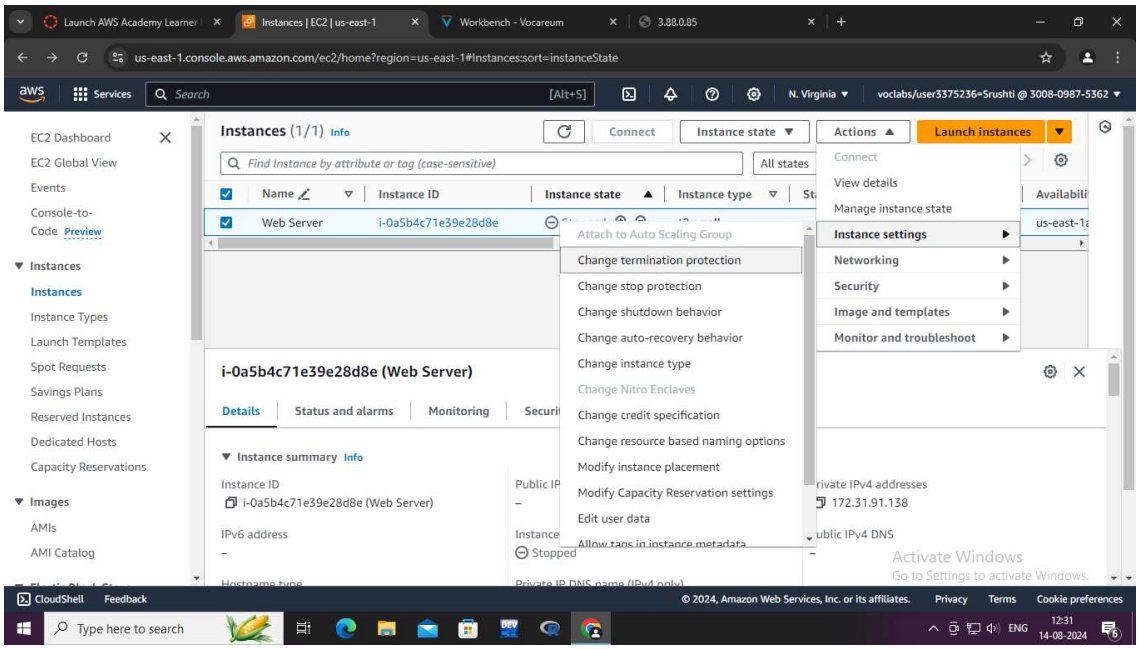


We can see that,successfully disabled stop protection message has arrived



Step 30:Stop Web Server instance





Step 31:At the end,Terminate the instance.By choosing instance state->Terminate instance