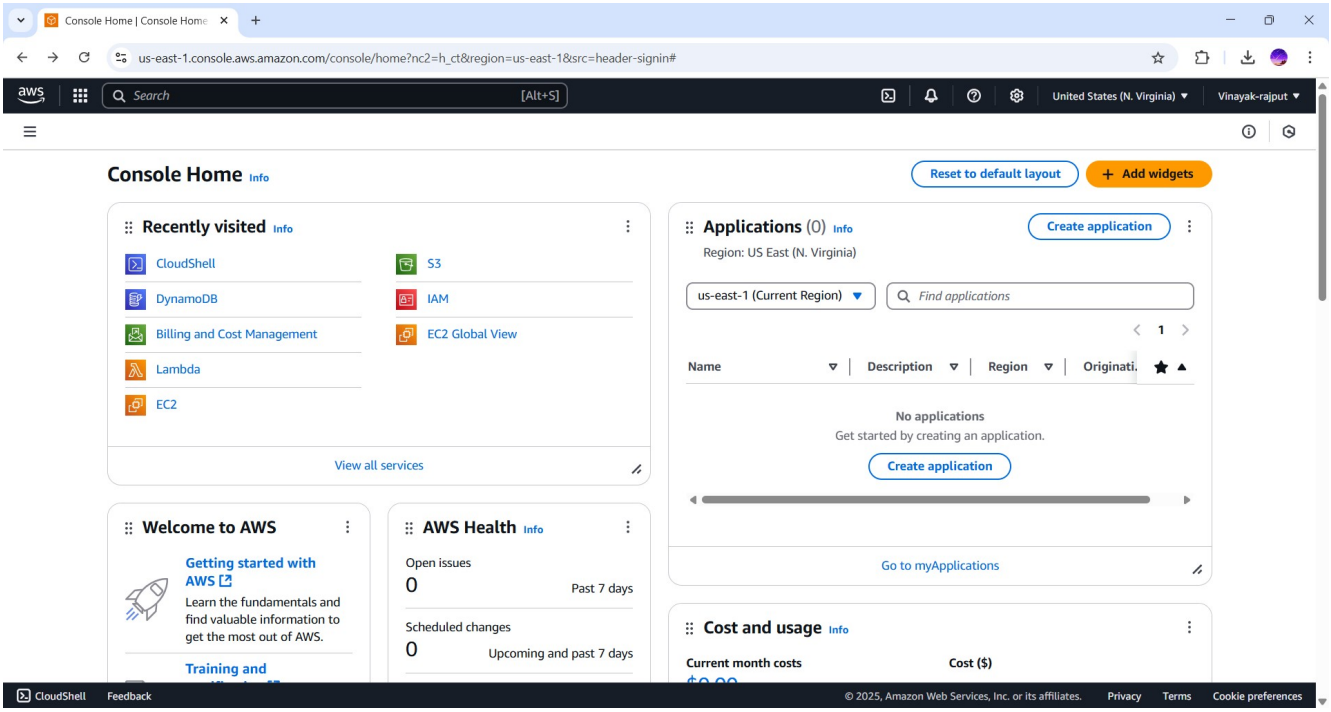
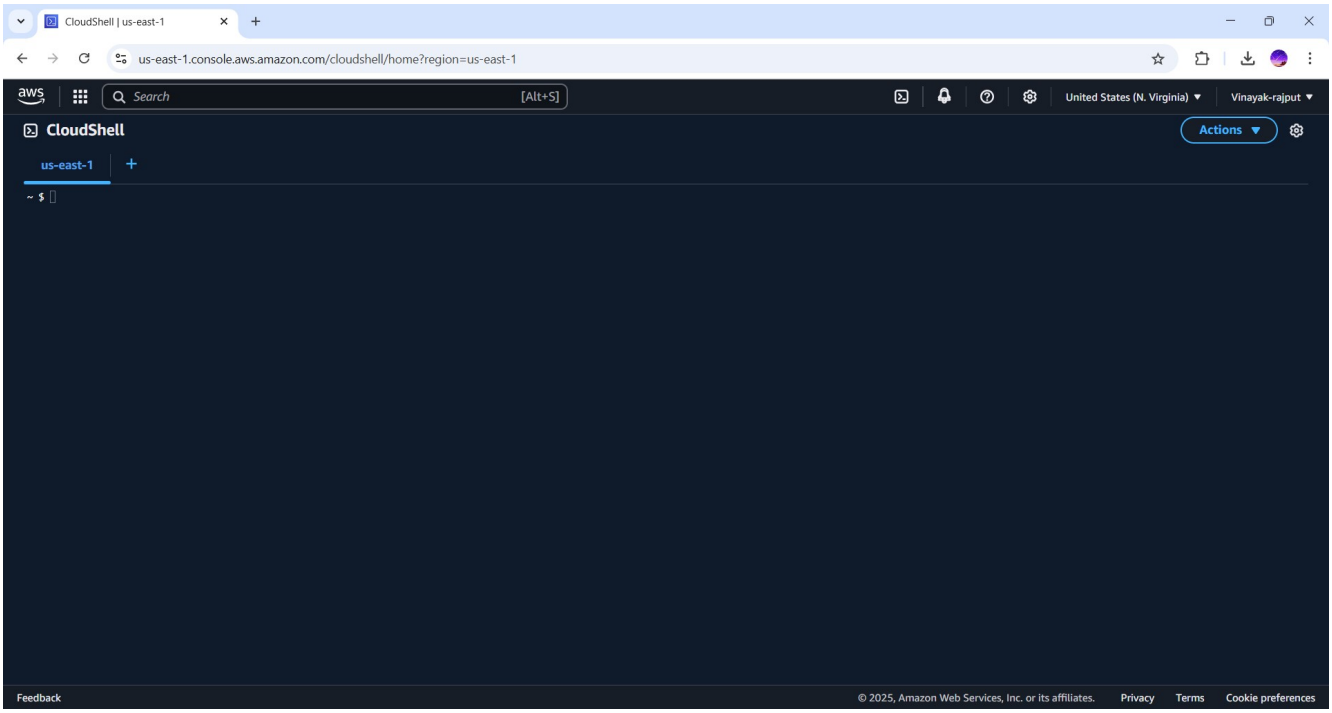
EXPERIMENT 1: Exploring AWS CloudShell and the AWS Cloud9 IDE

Steps for working with CloudShell

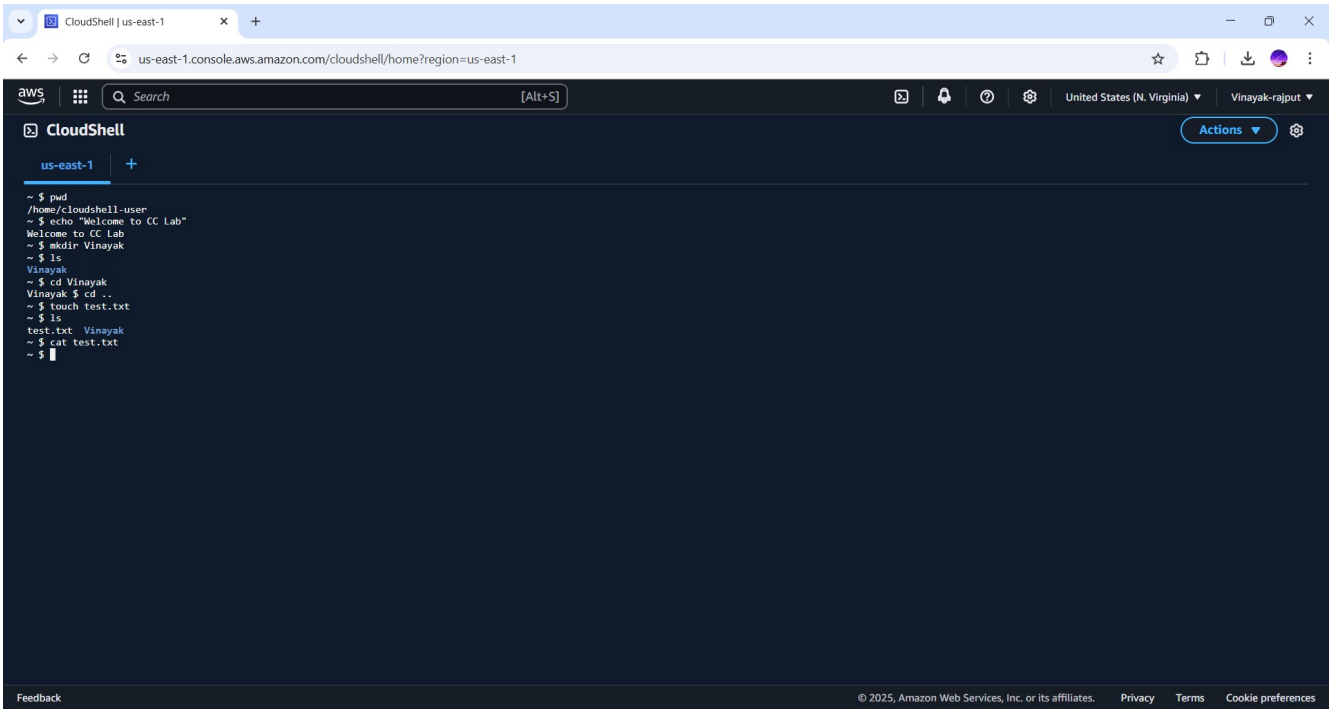
Step 1: Login to AWS Account



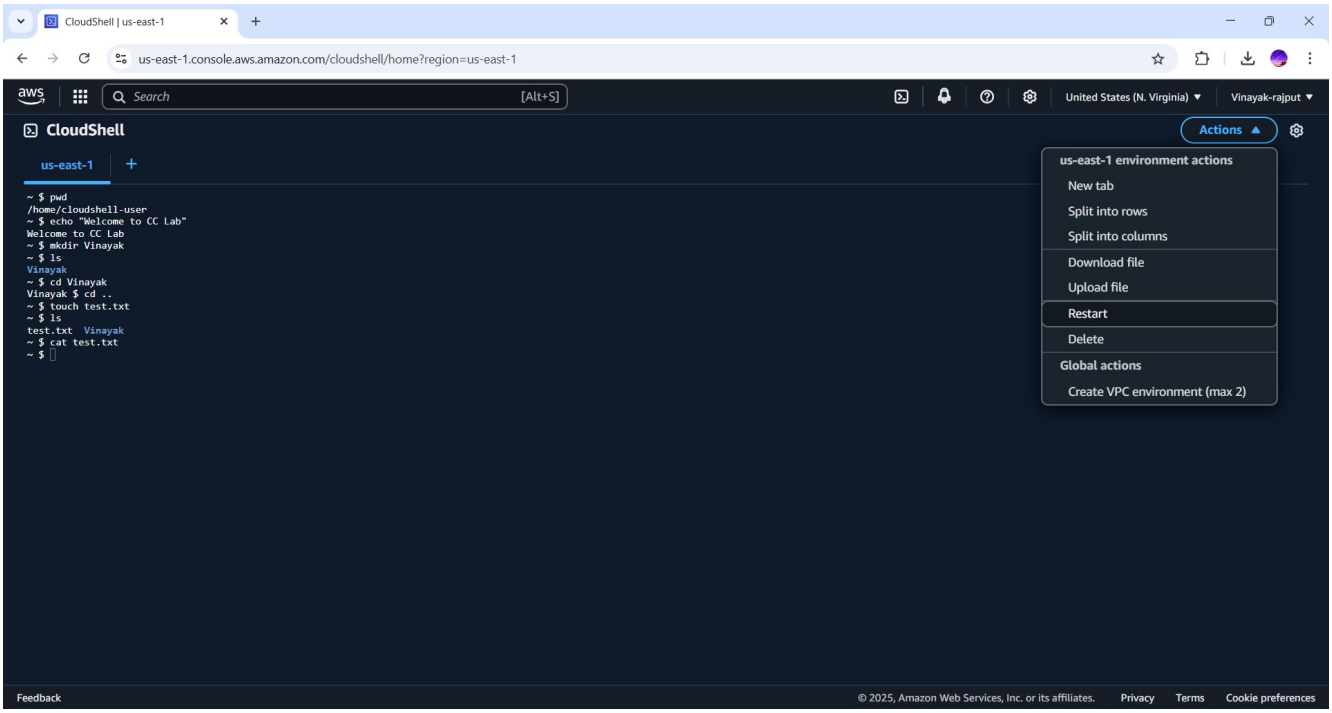
Step 2: Open CloudShell



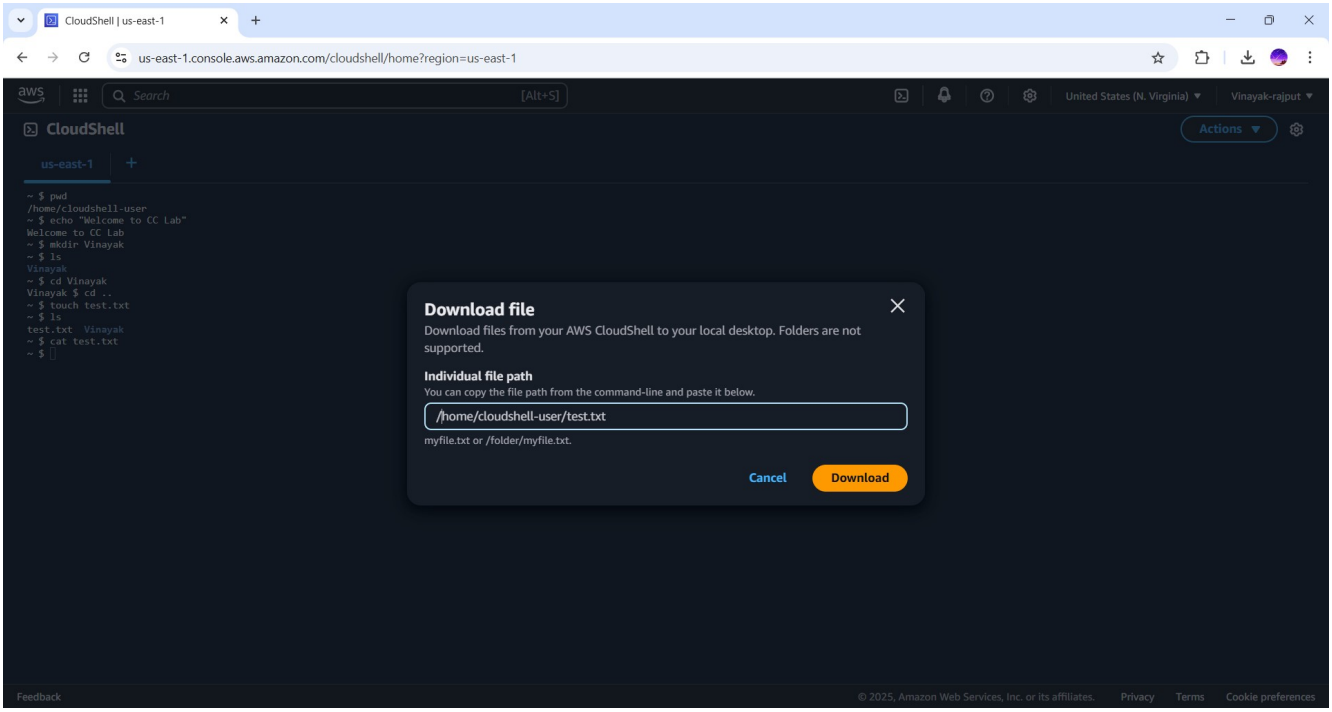
Step 3: Execute shell commands in the terminal



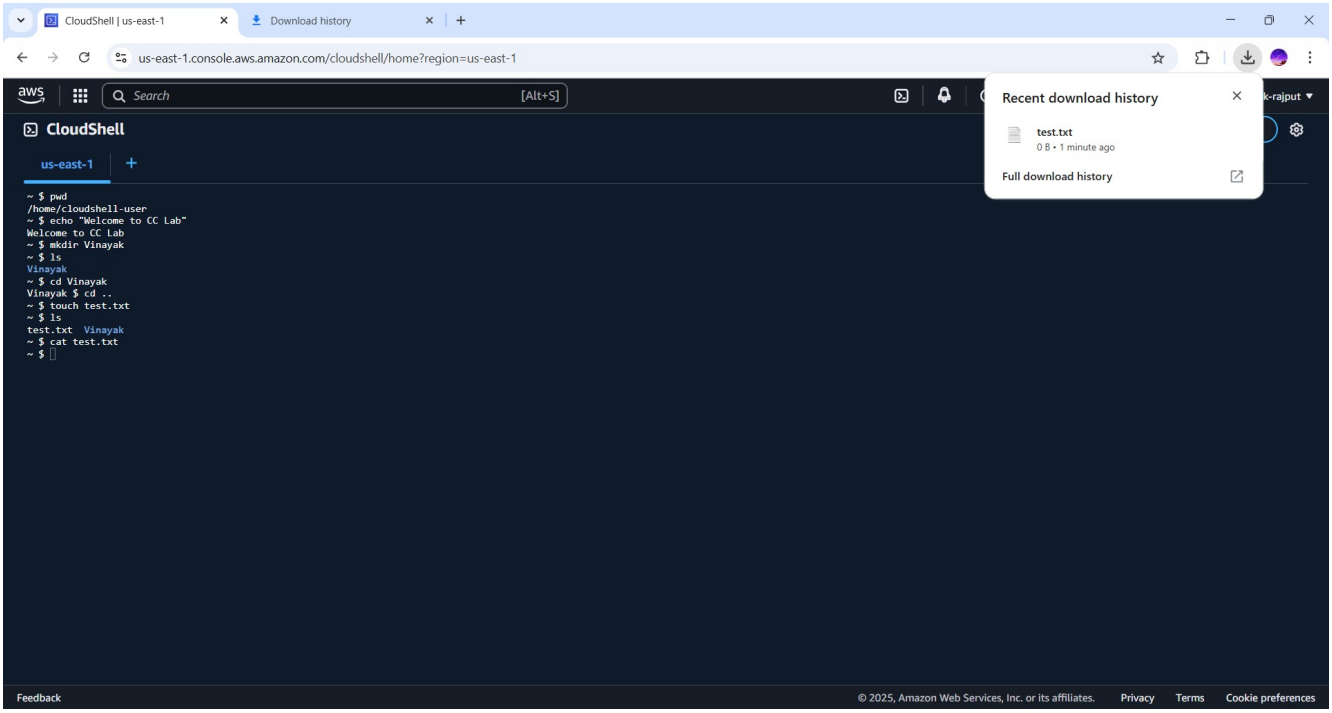
Step 4: To download the created file, choose Download file option from Actions dropdown menu



Step 5: Provide the path to the file created (e.g. test.txt) and click on Download button

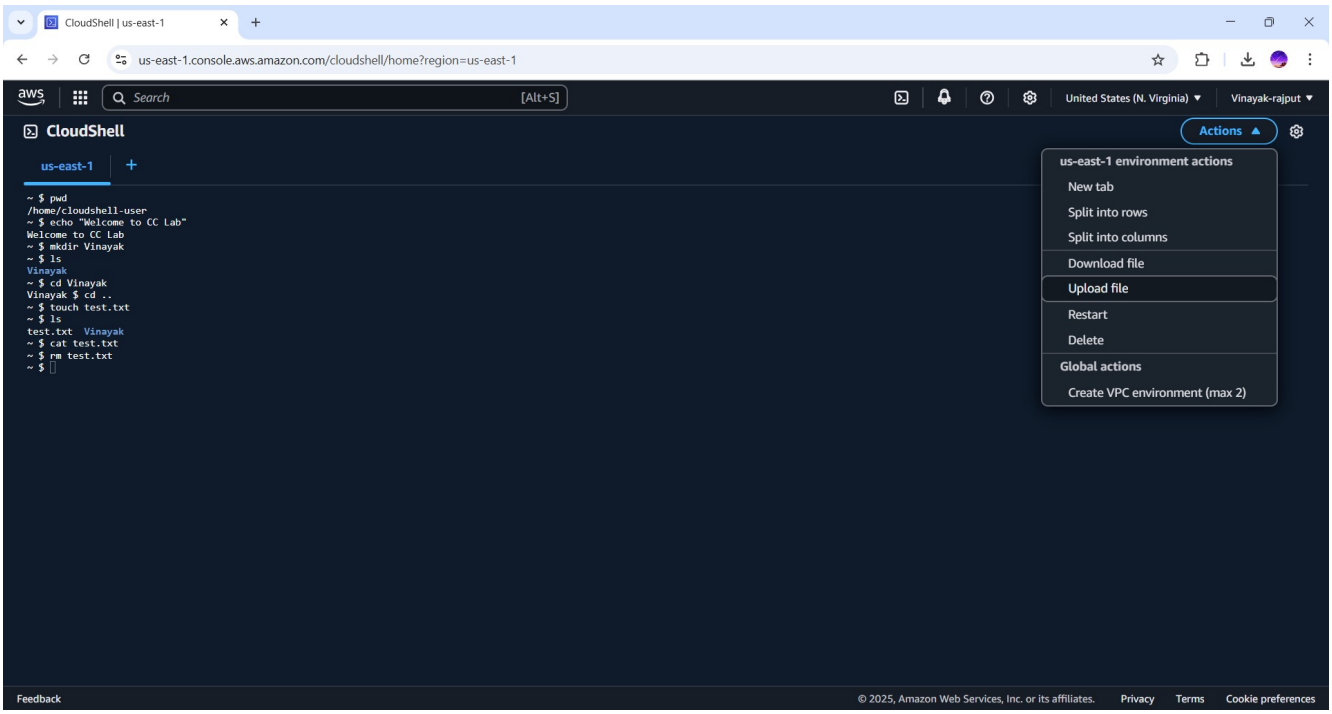


Step 6: An empty file “test.txt” is downloaded

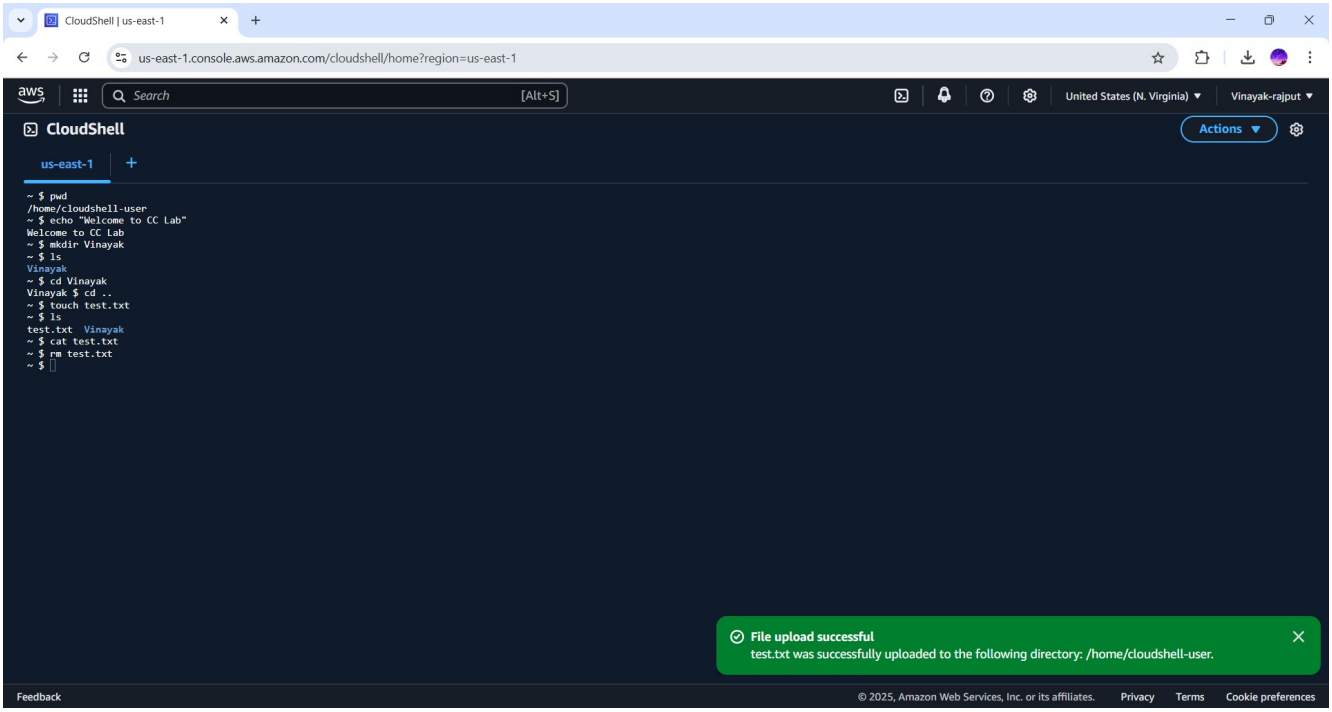


Step 7: Add some content to the downloaded file (i.e. test.txt) and save it

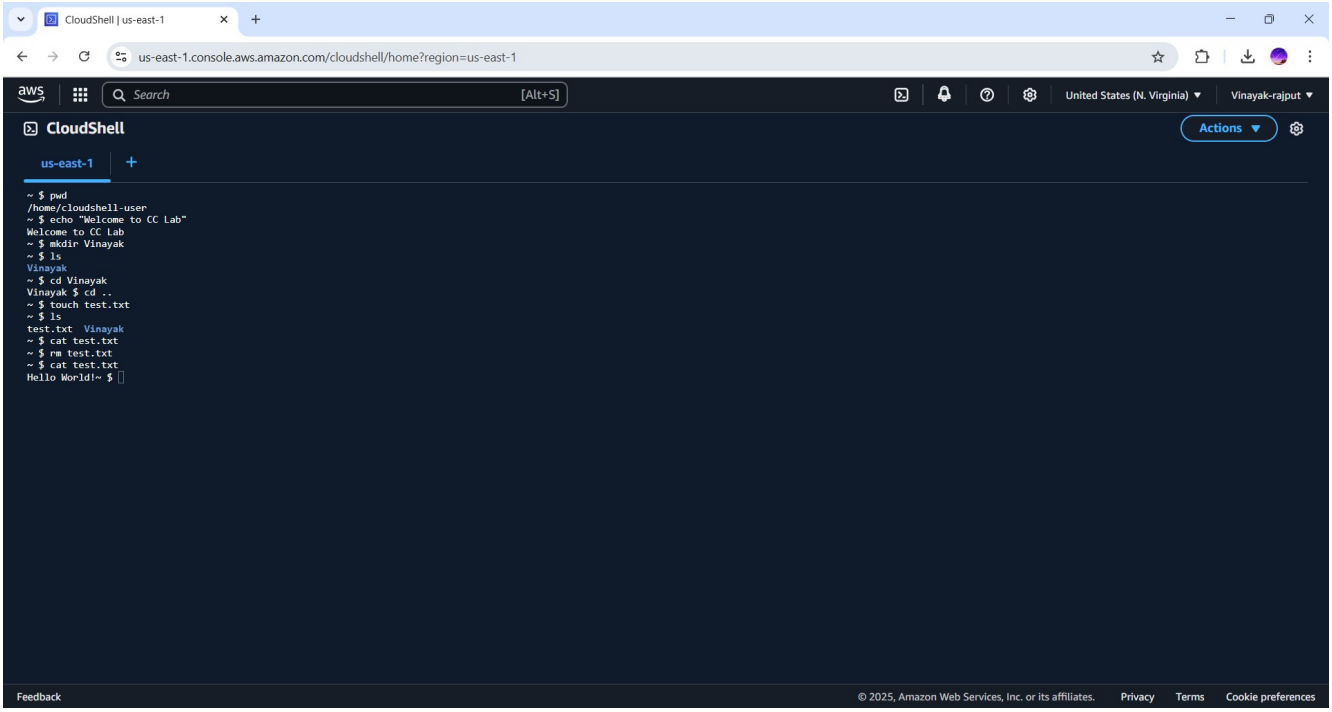
Step 8: Execute 'rm' command to delete the earlier created file and upload the altered file by clicking on Upload file option from the Actions dropdown menu



Step 9: Upload the test.txt file

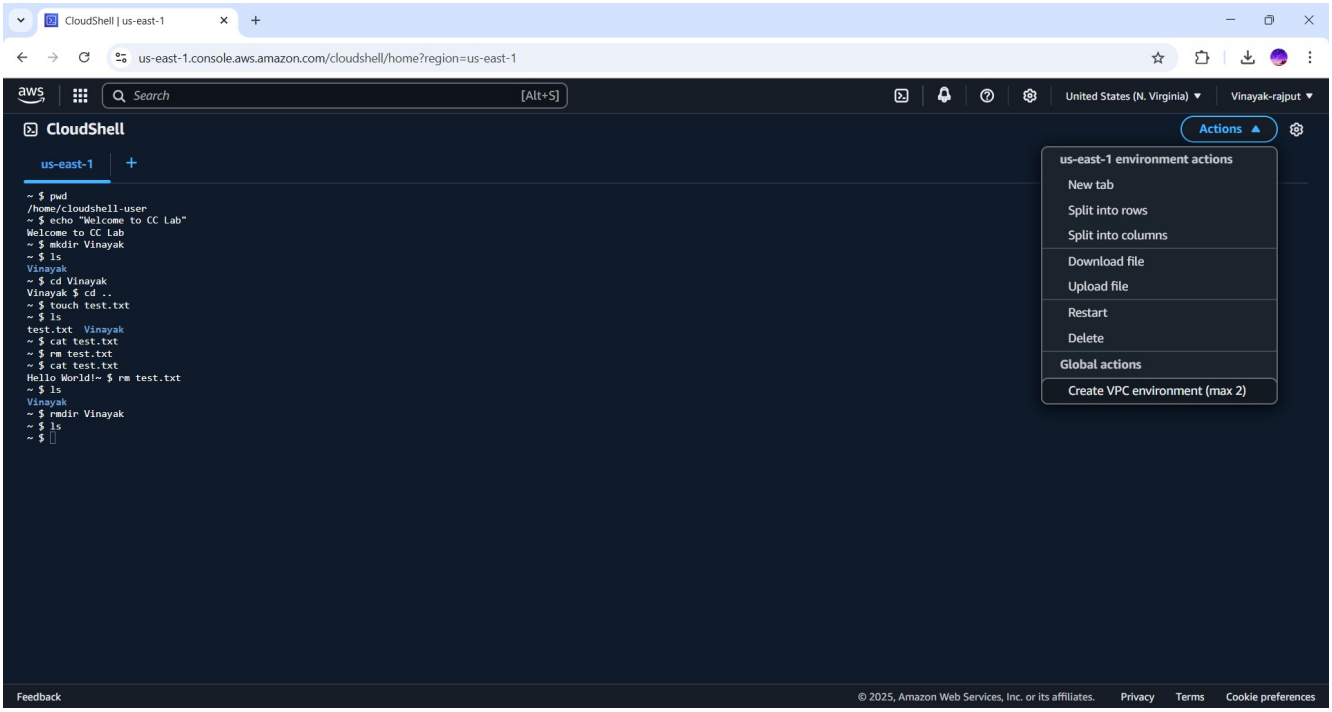


Step 10: Once uploaded successfully, check the contents of "test.txt" using the 'cat' command

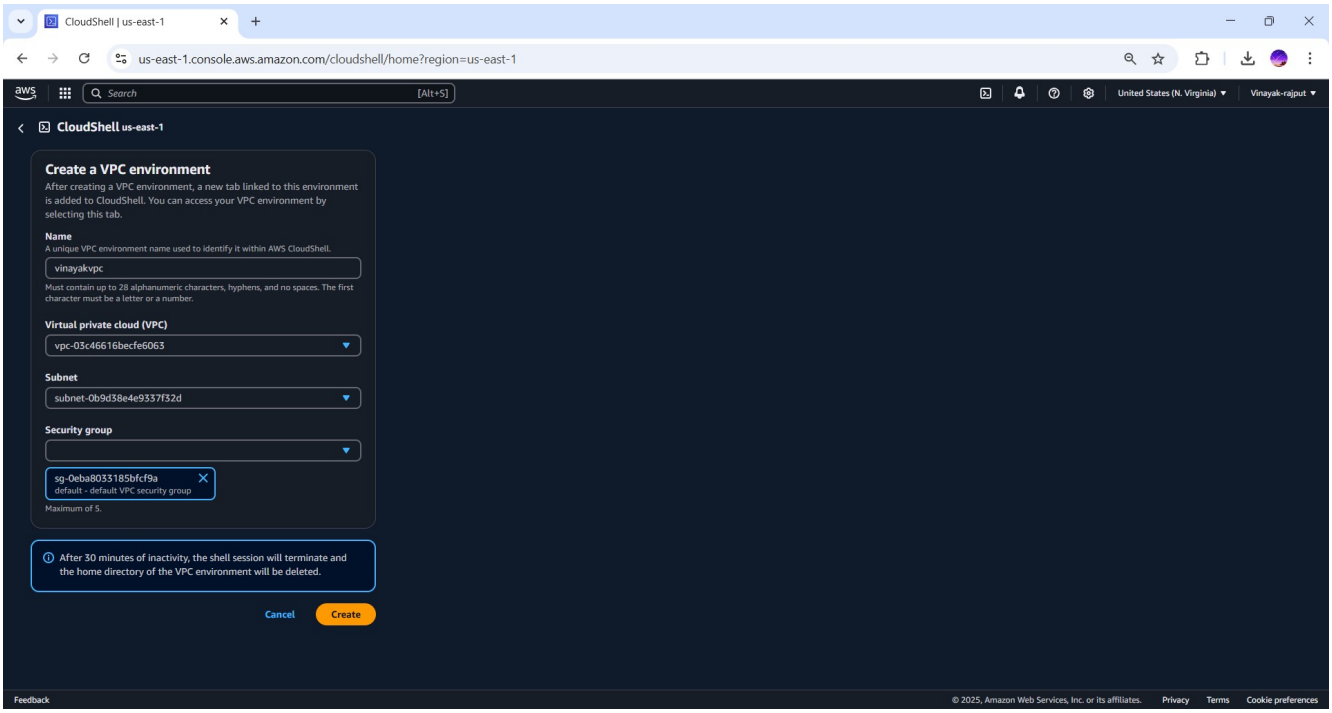


Steps for creating a VPC (Virtual Private Cloud) Environment

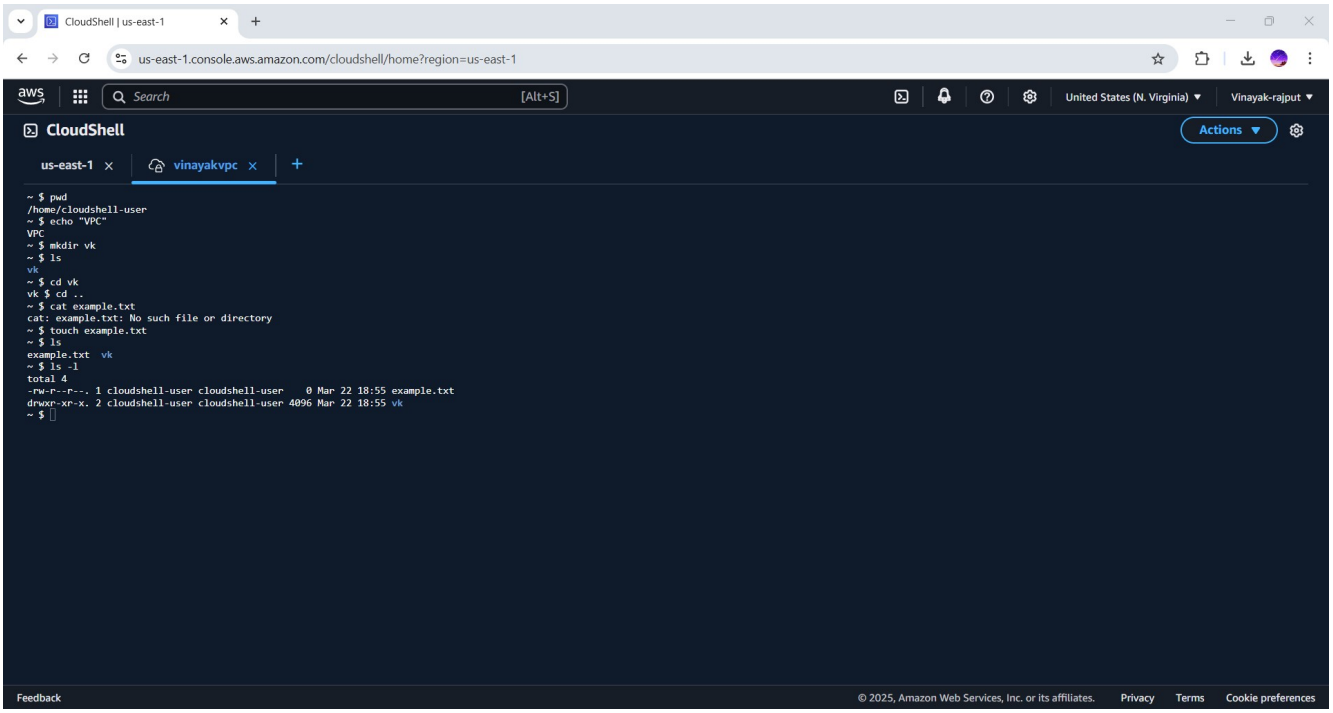
Step 1: From the Actions menu choose option 'Create VPC environment (max 2)'



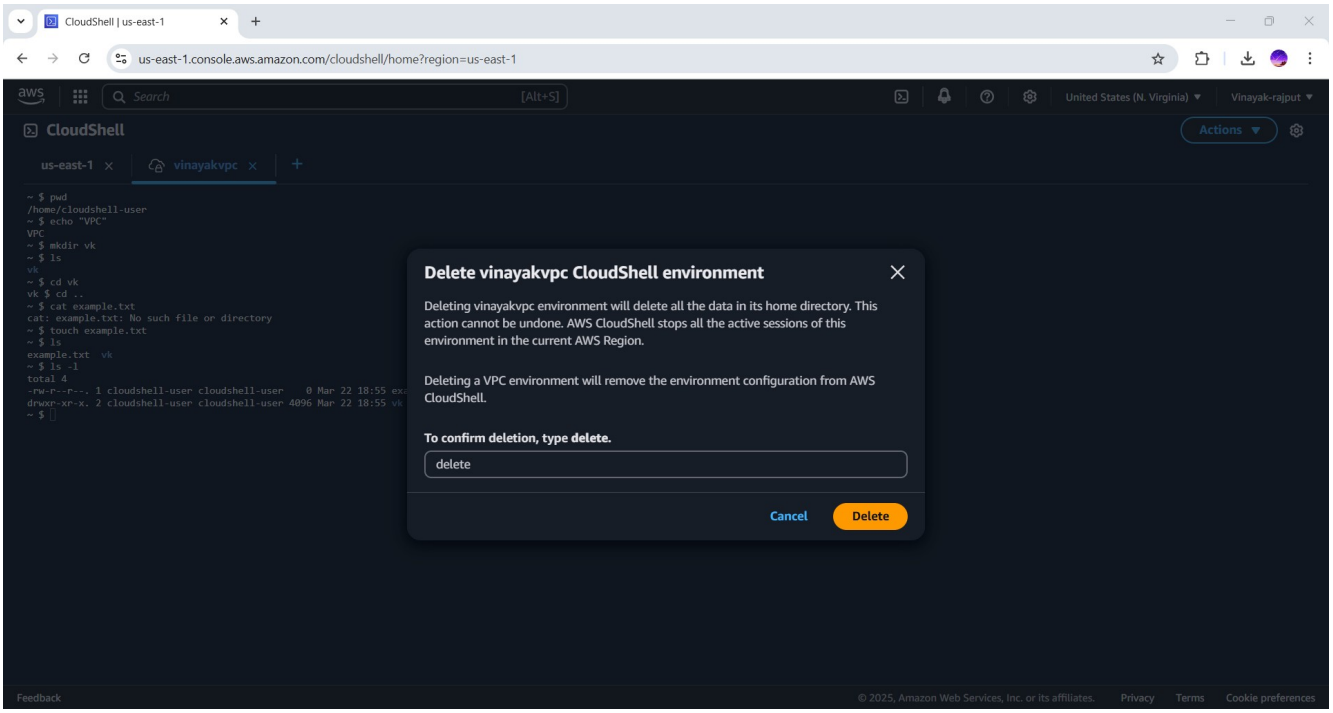
Step 2: Give VPC a name (e.g. Vinayakvpc) and choose VPC, Subnet and the default security group and click on Create button



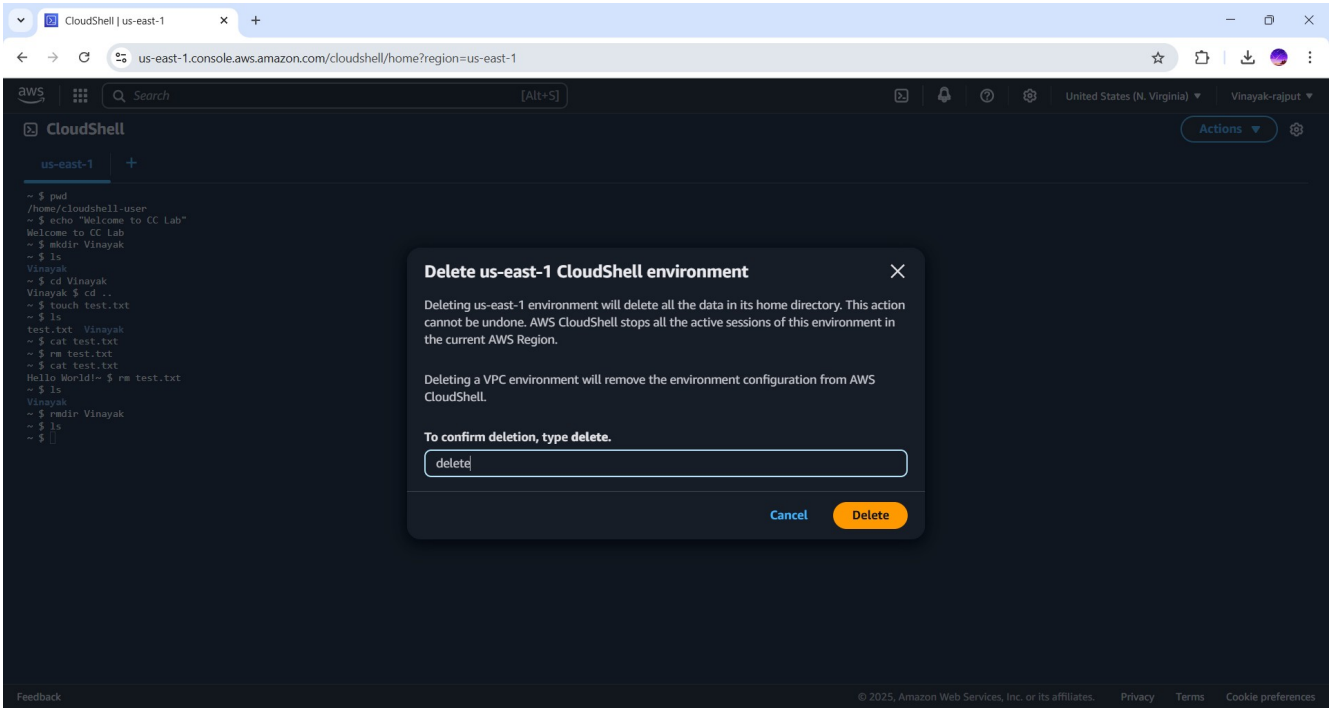
Step 3: Execute the same commands as of CloudShell in the VPC window except for download and upload file options



Step 4: Once all the commands are executed, delete the VPC by typing delete and clicking on Delete button

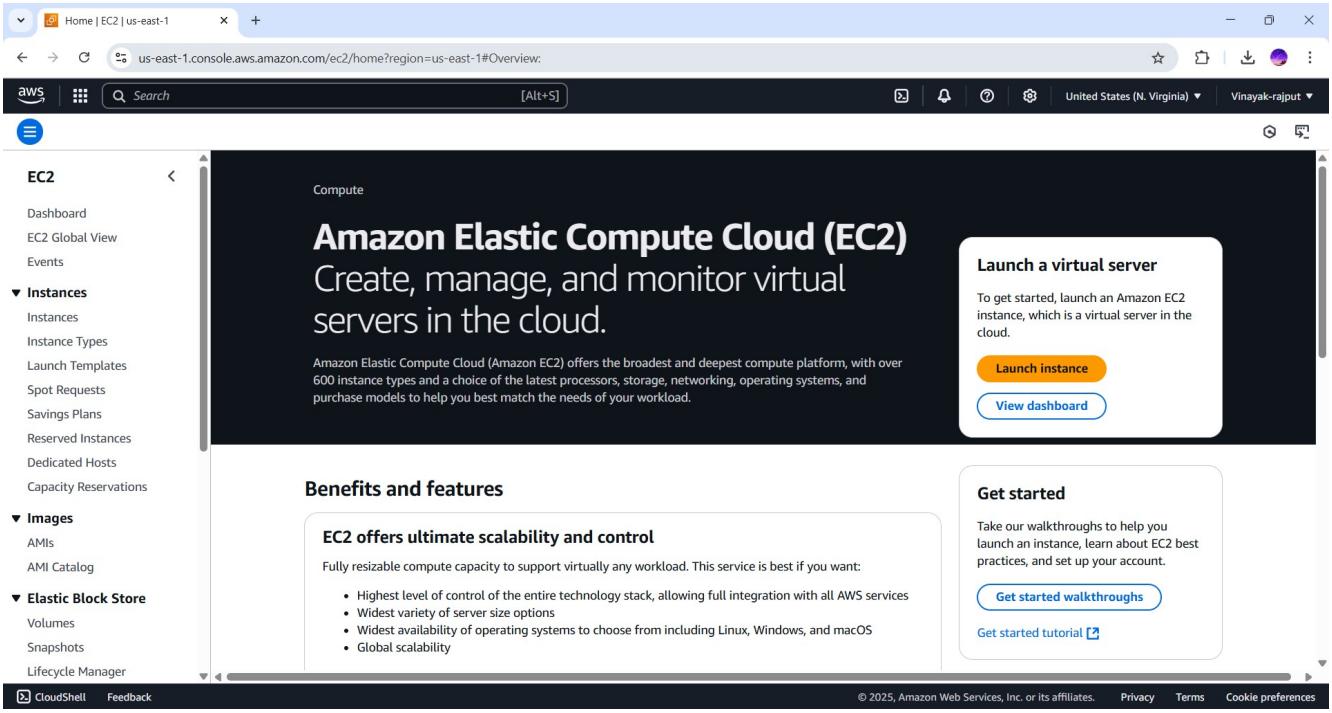


Step 5: Also delete the CloudShell instance once the commands are executed in a similar fashion

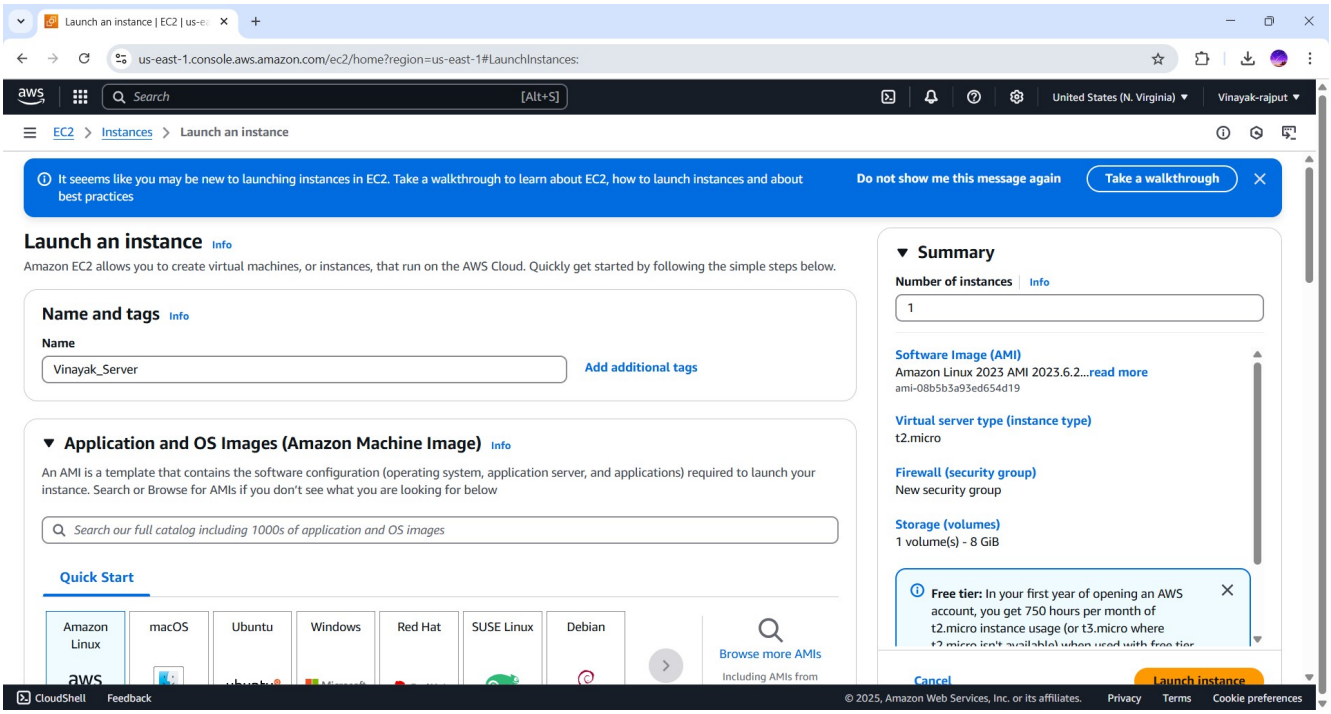


Steps to create EC2 (Elastic Computing 2) instance

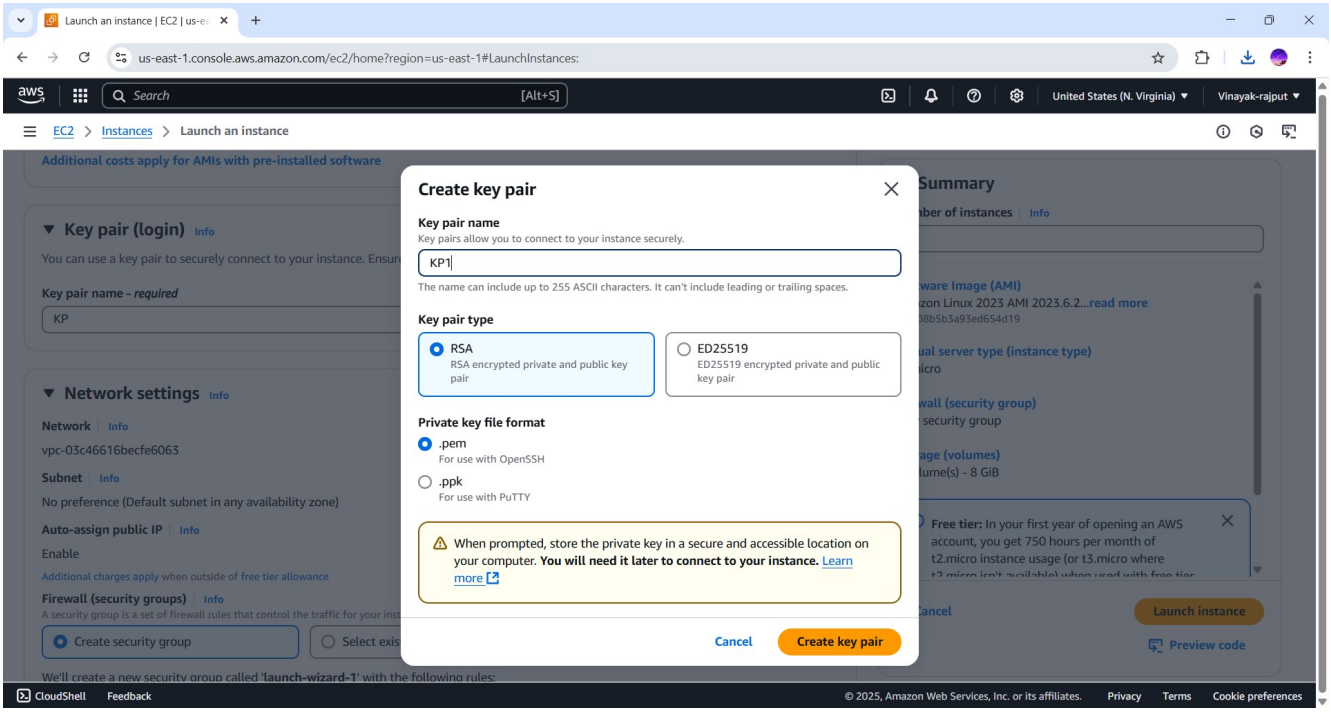
Step 1: Open EC2 dashboard in AWS Console and click on Launch Instance button



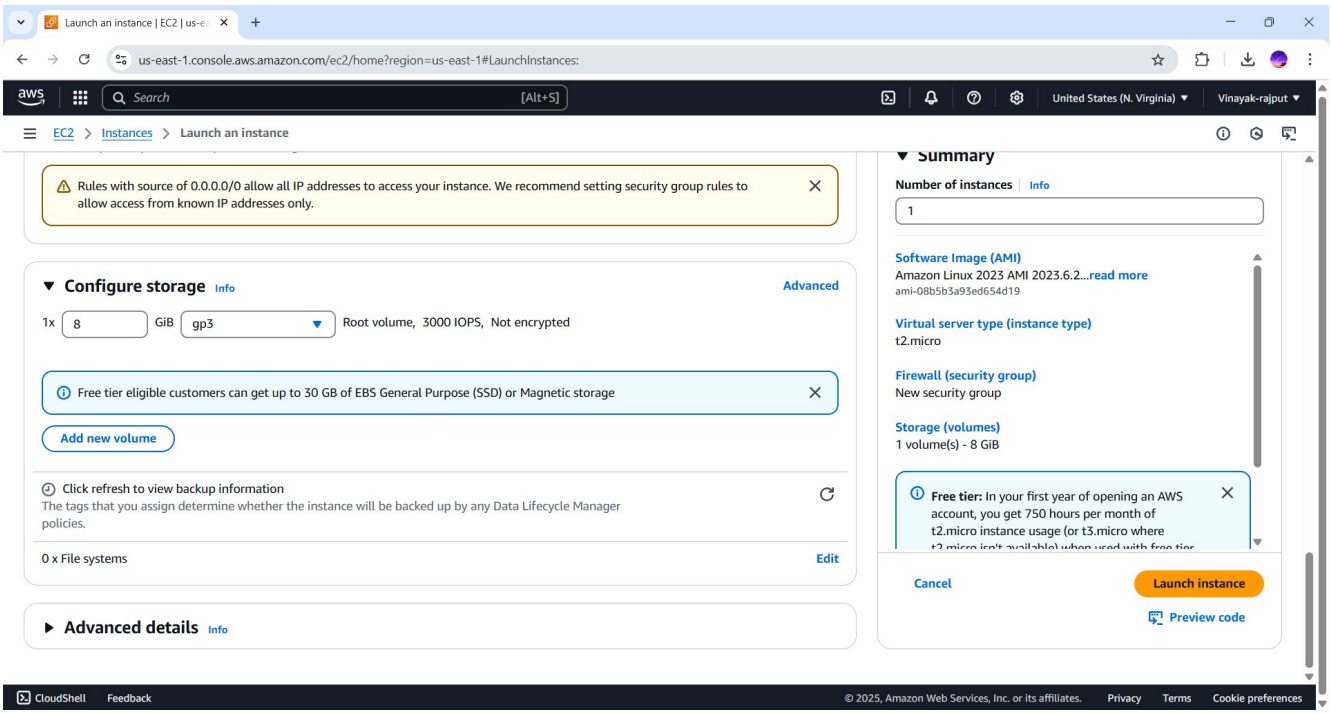
Step 2: Name the instance and scroll down



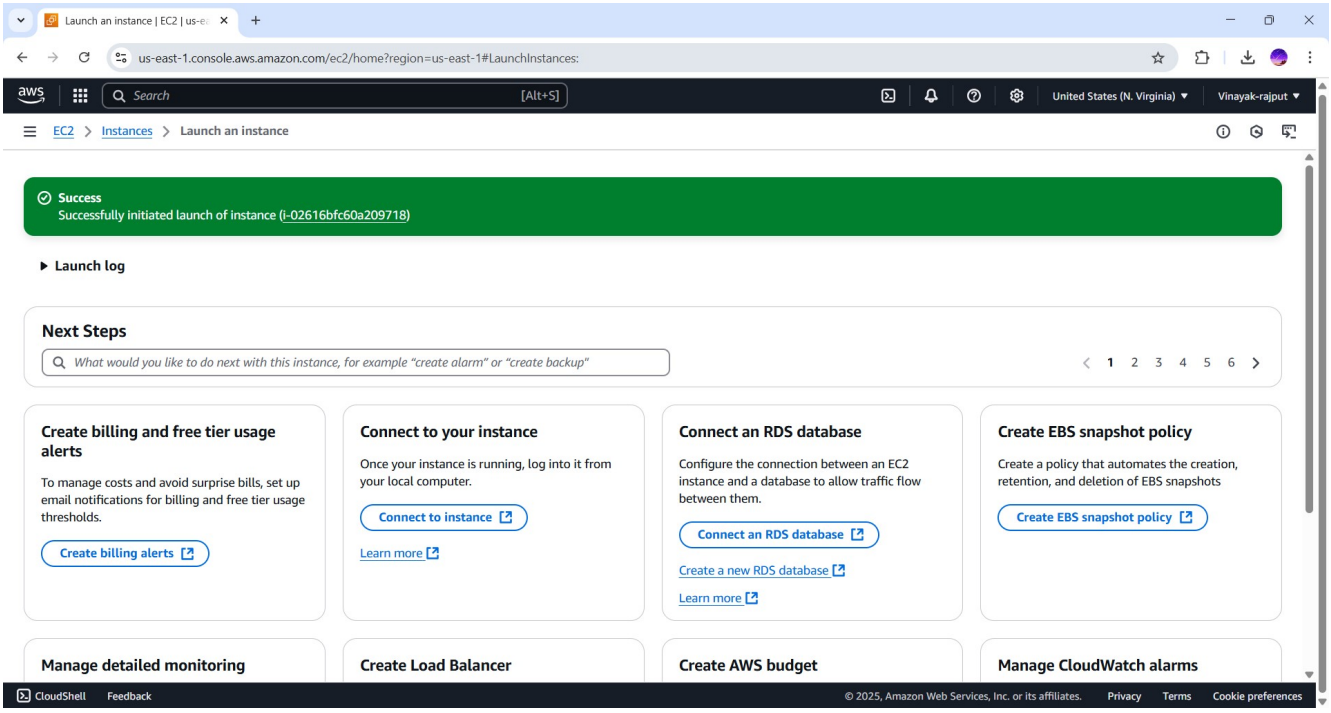
Step 3: Click on create new key pair and create a new key pair by providing a name and clicking on Create key pair button



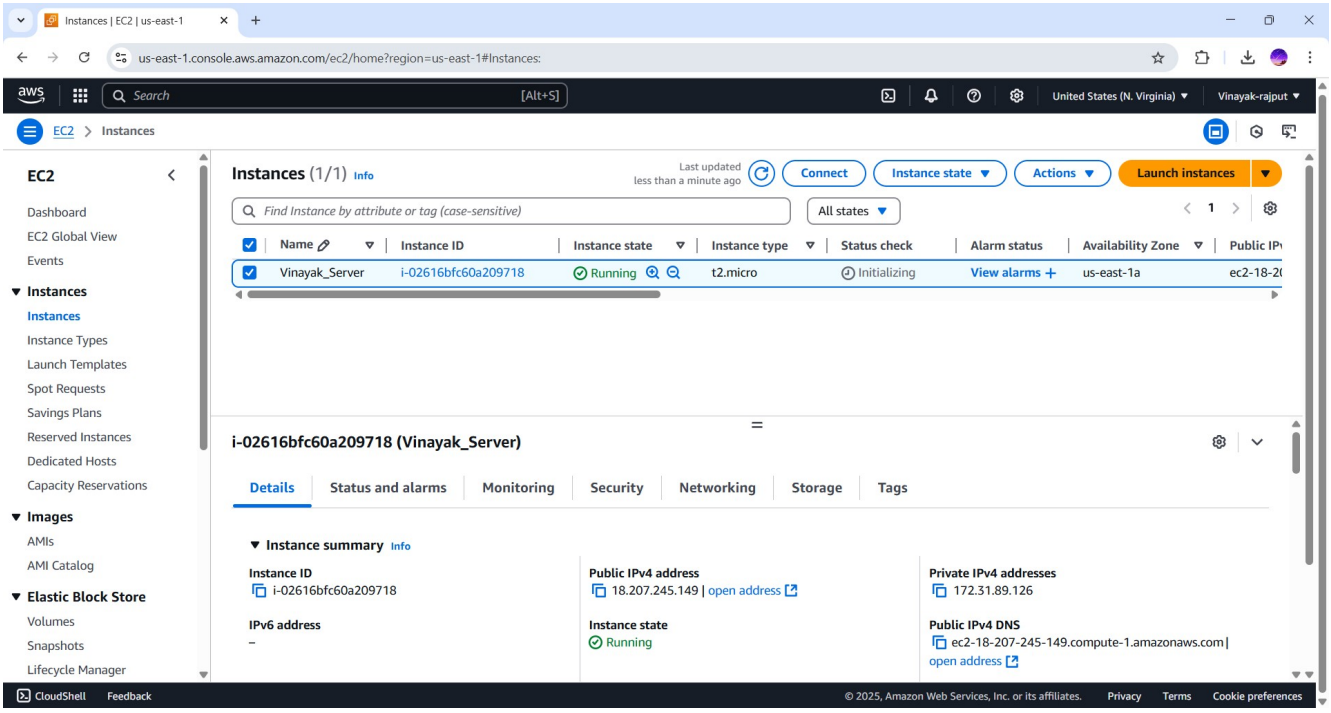
Step 4: Keep the default options for the rest and click on Launch Instance button



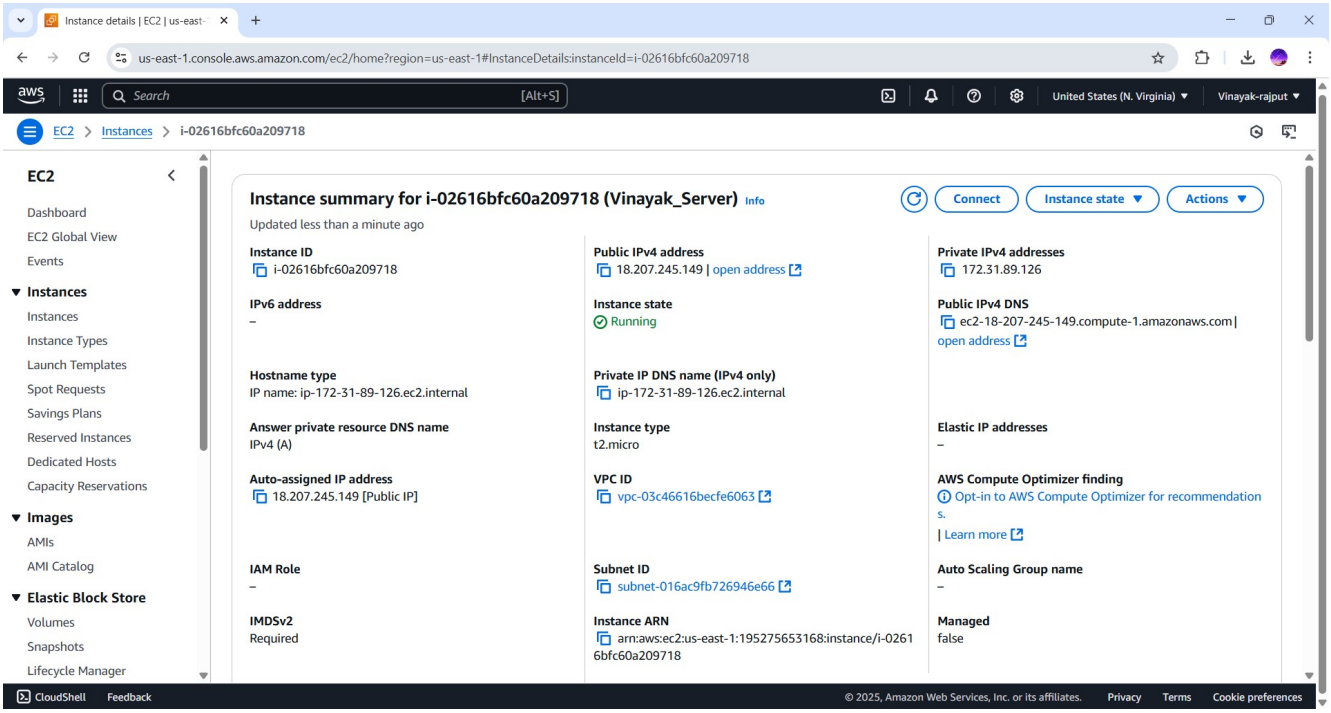
Step 5: A confirmation message regarding Success of launch of our new instance is displayed



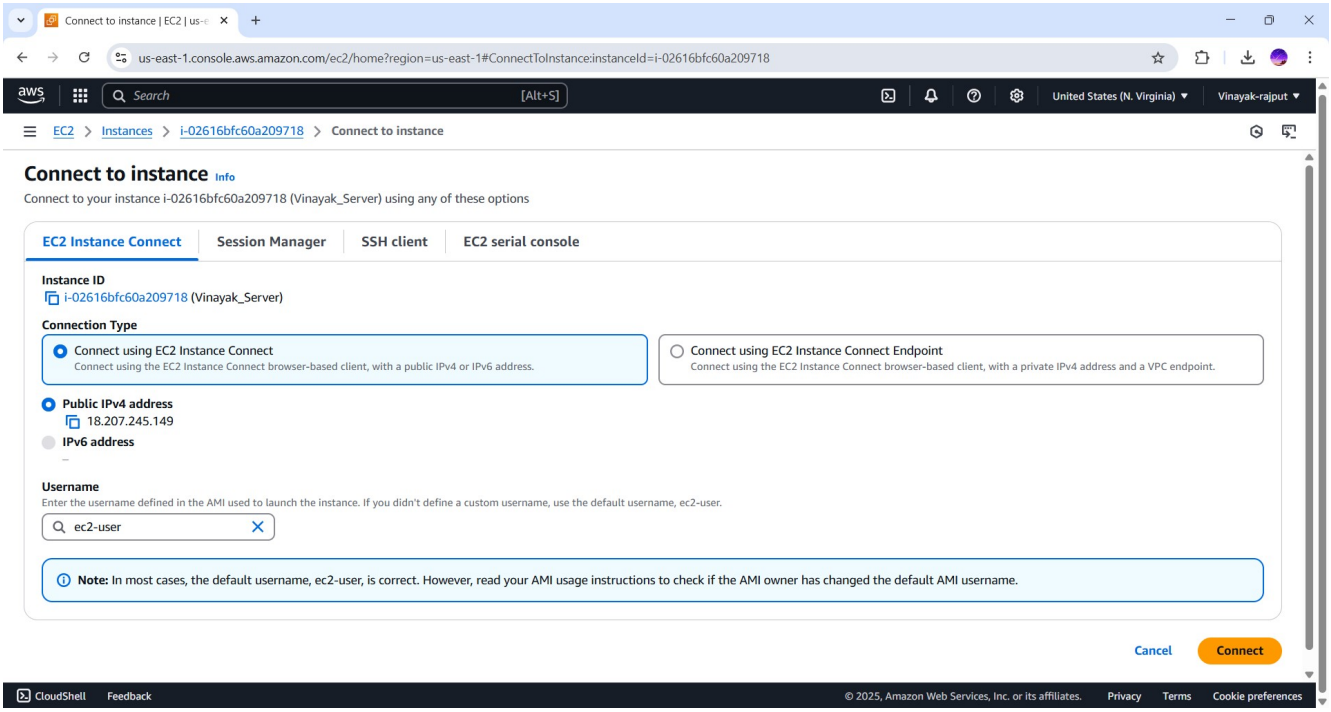
Step 6: Click on Instances. It displays the instances that are running. Click on Instance ID to know about a particular instance.



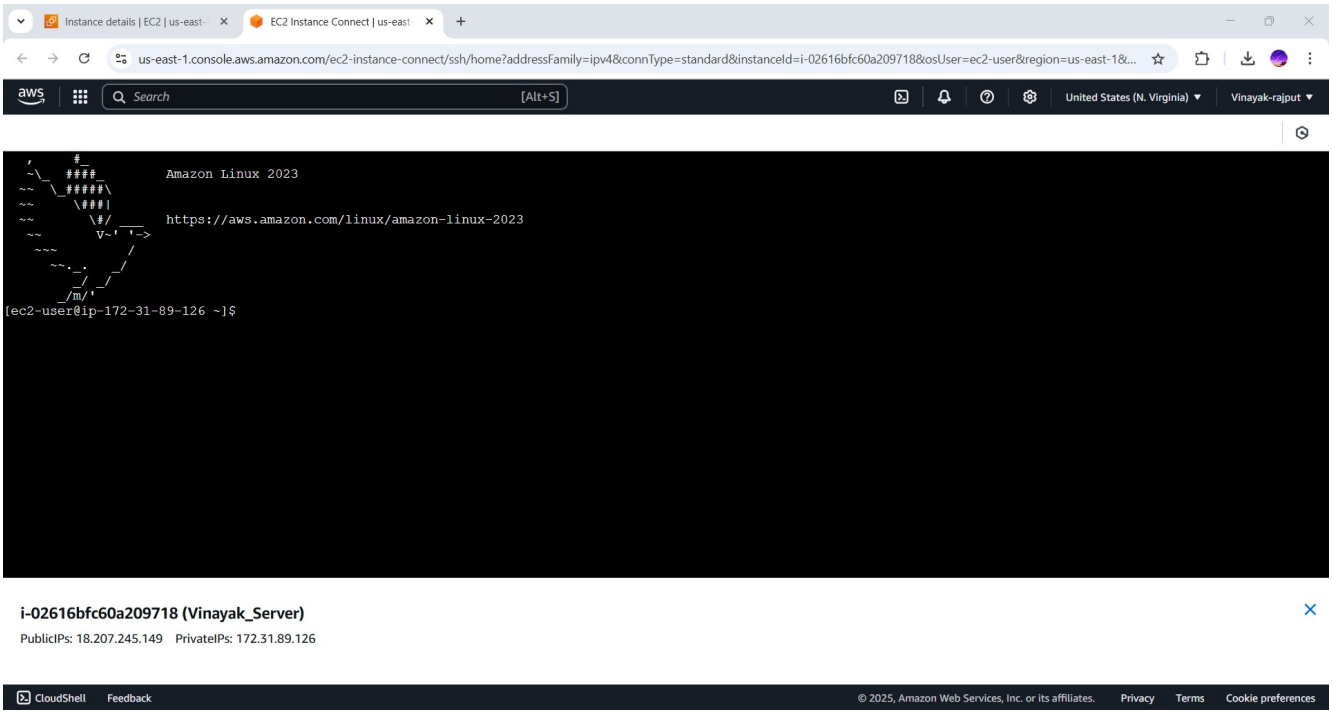
Step 7: Click on the Connect button on the top-right to connect to an instance



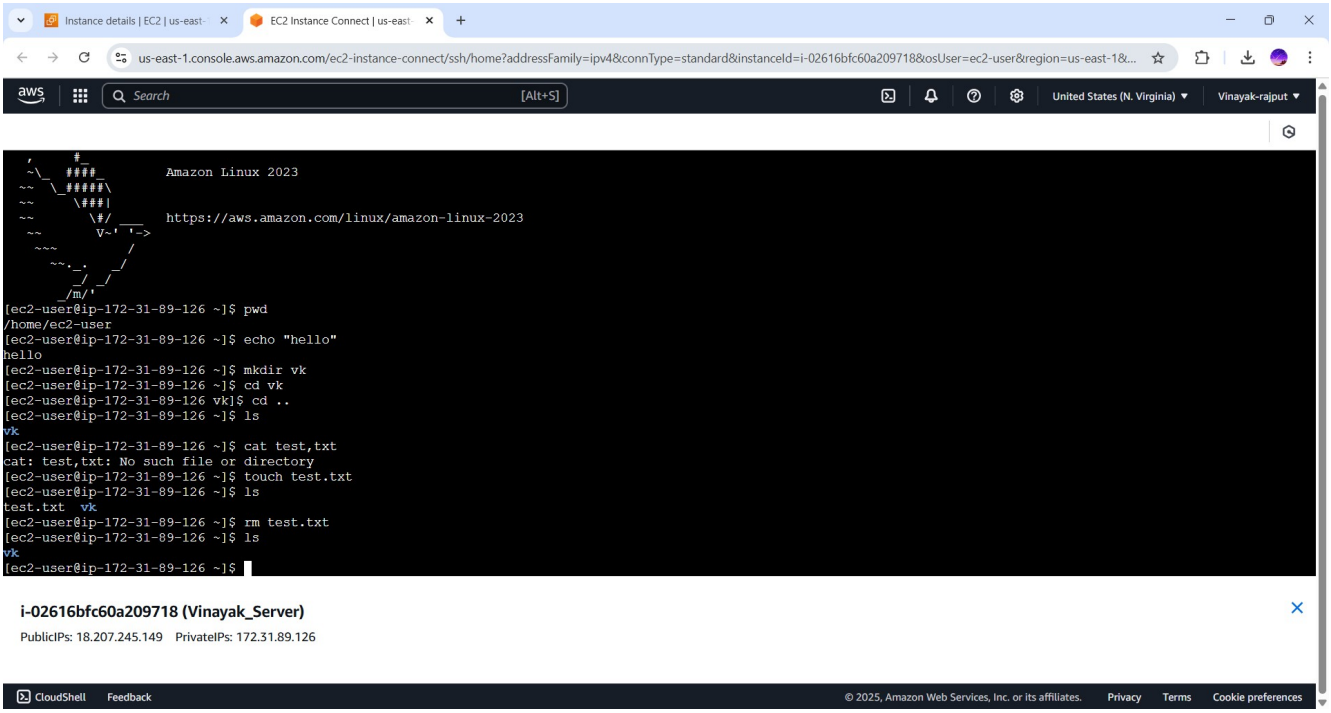
Step 8: Keep the default options and click on Connect button



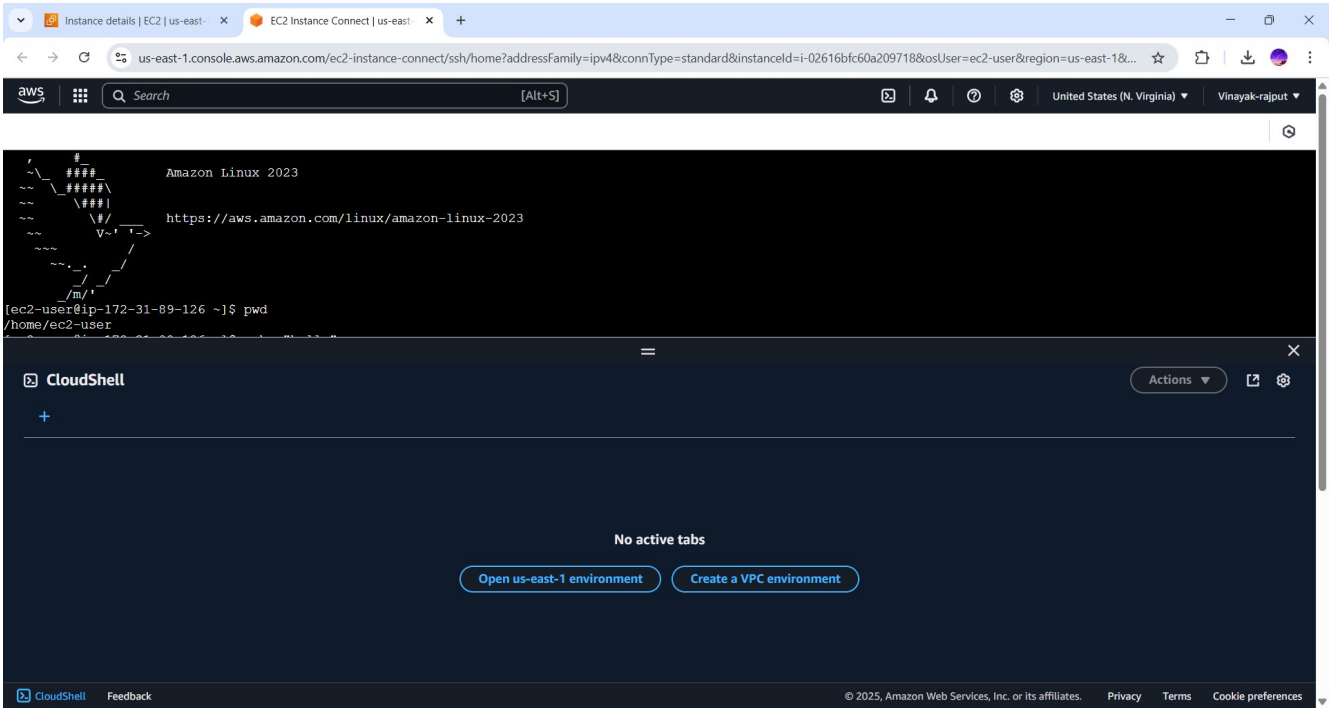
Step 9: An Amazon-Linux terminal is displayed



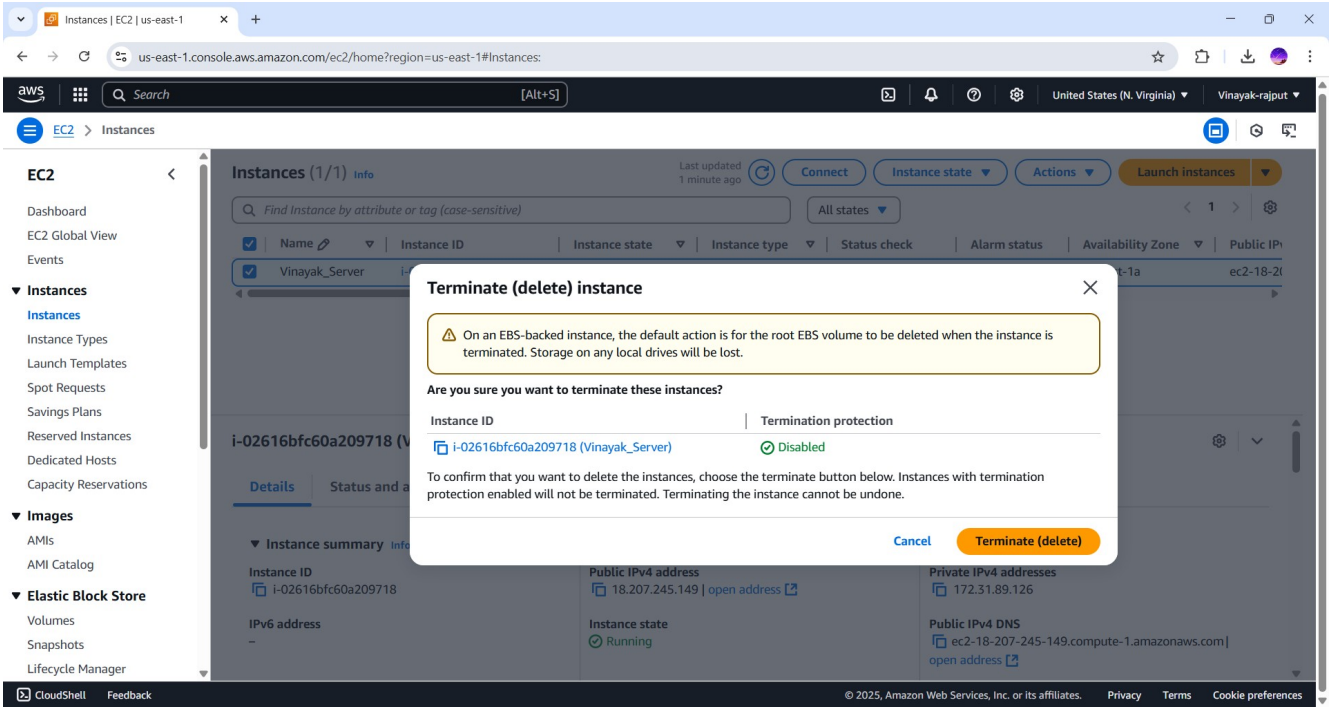
Step 10: Execute the commands executed in VPC in this terminal



Step 11: The CloudShell button on the bottom-left corner can be clicked to open a shell terminal. We can execute commands and create VPC directly from here.



Step 12: Delete the EC2 instance after execution by clicking on Terminate(delete) instance



Step 13: A popped-up message indicates the successful termination of the instance and also delete the corresponding key pair and Security groups associated with this instance in similar manner

We can sign-out of the AWS account after these steps.