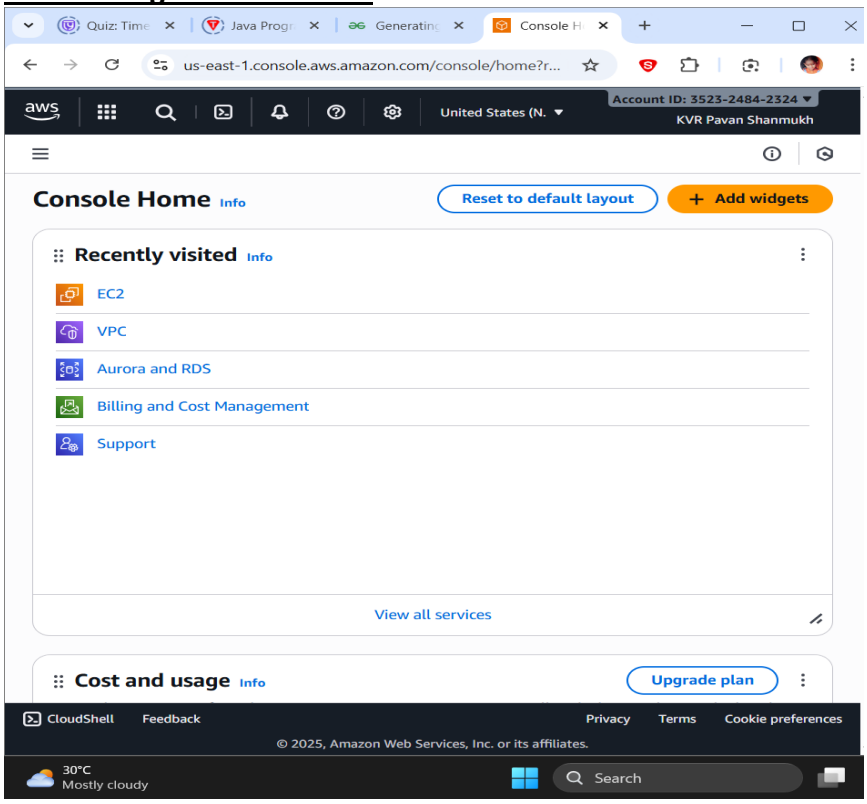
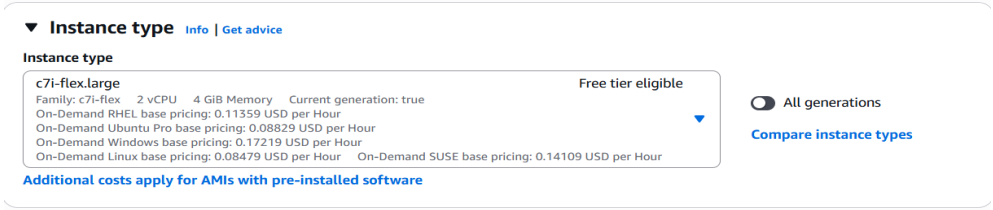
LAB 6- Deploy the Full Stack Project using GitHub Actions with Docker.
By 2300090201

Aim: Deploy the Full Stack Project using GitHub Actions with Docker.
Steps:
AWS Management Console:



->Click on VPC:
-->Select security grps under the Security section in the left menu bar.(If VPC is not available directly search in the search bar.)
-->Select the existing security group.
-->Click Edit Inbound Rules and delete the rule.
-->Click on Add Rule and ensure that the type is set to All Traffic and Source Type is set to IPV4.
-->Click on SAVE Rules

In AWS Home Page Click on EC2: (Instance creation process)
In the left menu bar, click on instances.
click on launch instance
Give name as machine1
Application and OS Images (Amazon Machine Image): Ubuntu
Instance type: t3.medium / t2.medium



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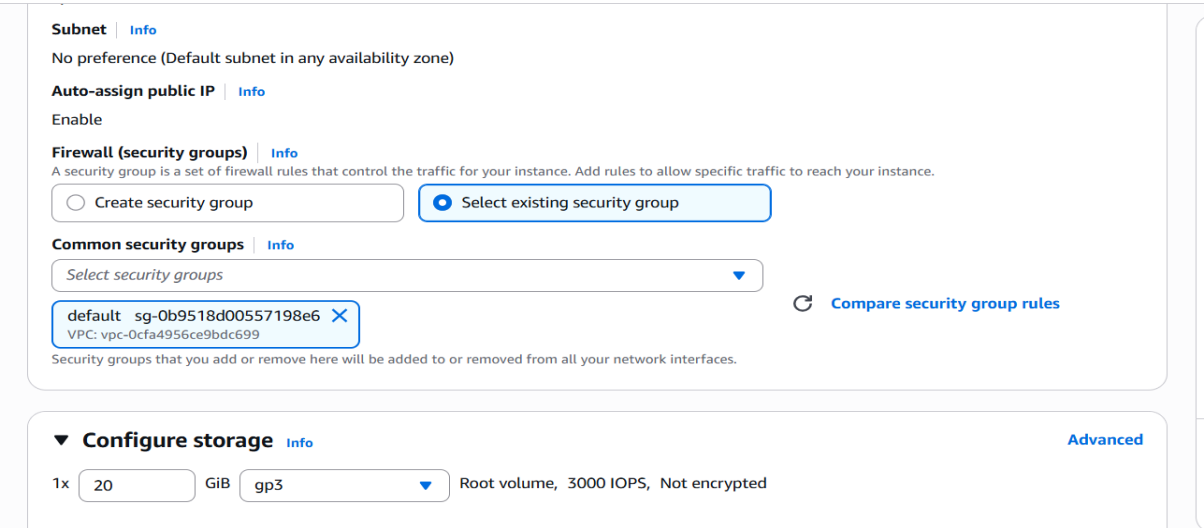
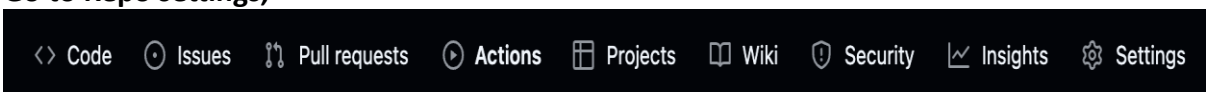
Key pair (login):
--> create a new pair
-->give name as s111-key
-->select the ".pem" as extension.
-->click on create key pair.
Firewall (security groups): select existing security grps and select the default security group.
Configure storage: 20 GiB



Connect the instance.

JUST HOLD THE PROCESS AND OPEN THE GITHUB.

Open GitHub:
Create a new repository, do not push any files initially.
Go to Repo settings,



Actions → General → Scroll down and select Read & Write permissions. Save.

In the Skill11 repo-
In the frontend files: check each and every file and replace the ip address like:
For frontend only.

http://localhost:8083/ecommerce → http://<ec2-ip>:8083/ecommerce

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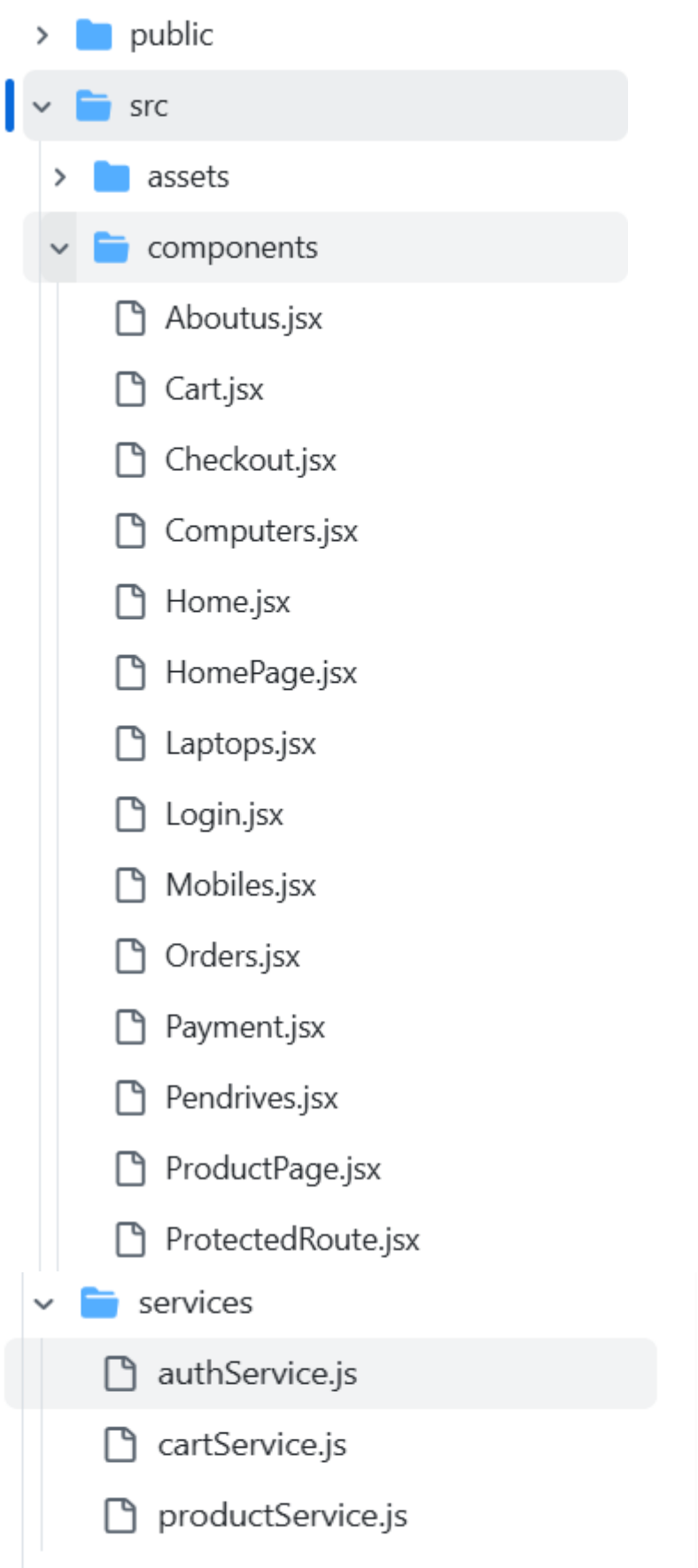

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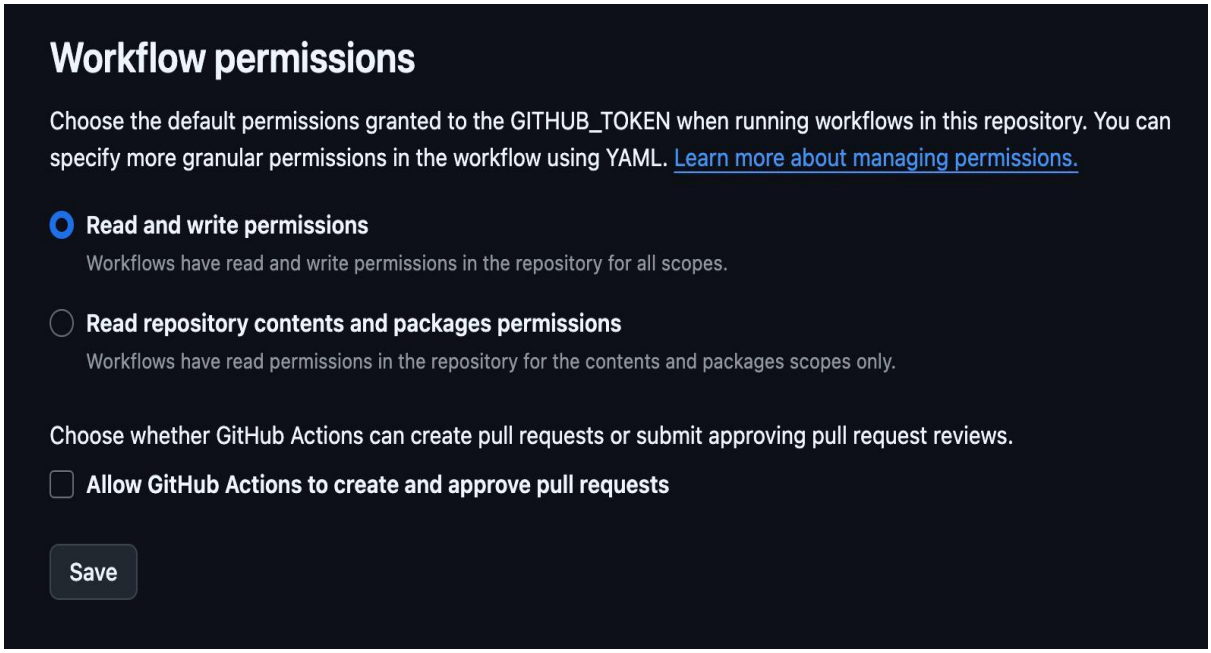
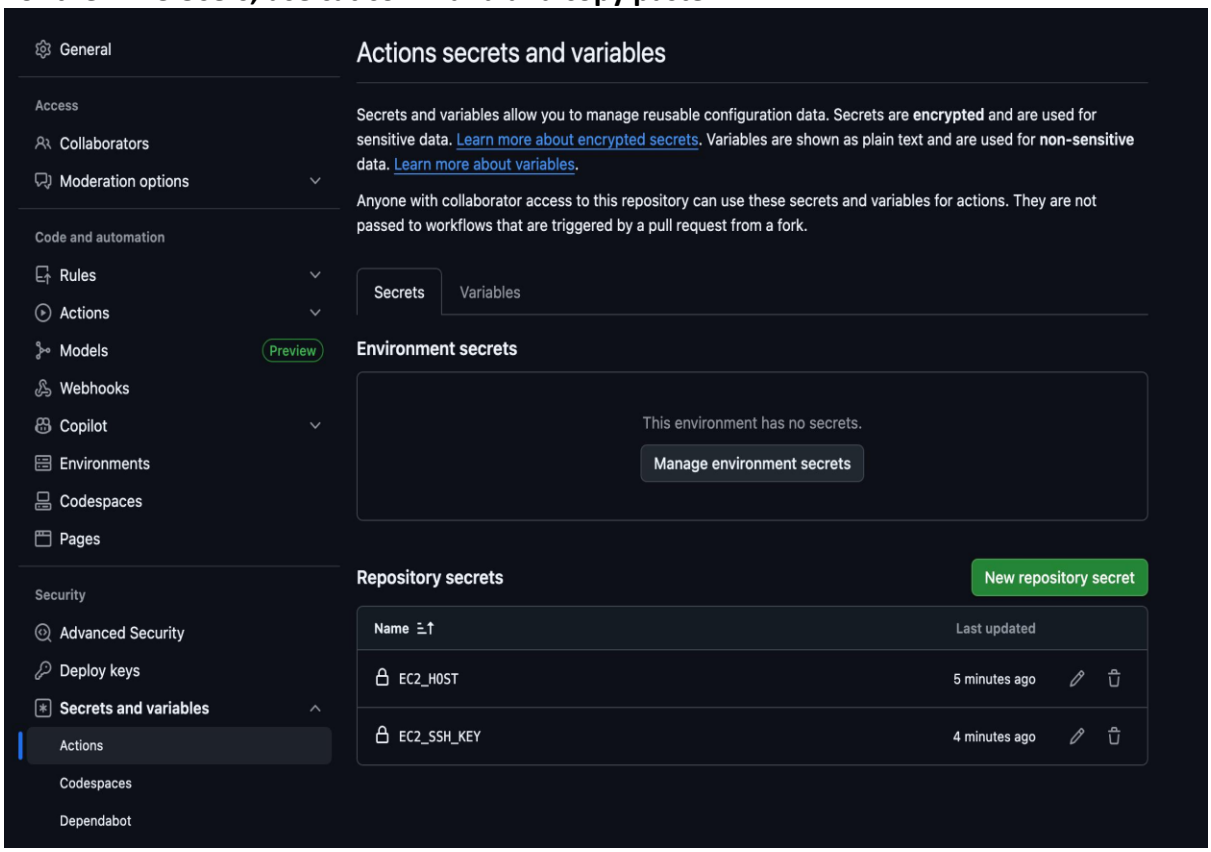


Secrets & Variables → Actions → Create repo secret →

1st: Name:EC2_HOST
Value: your EC2_IP

2nd : Name : EC2_SSH_KEY
Value: Copy paste the content in .pem key pair file.

For the MAC Users, use cat command and copy paste.



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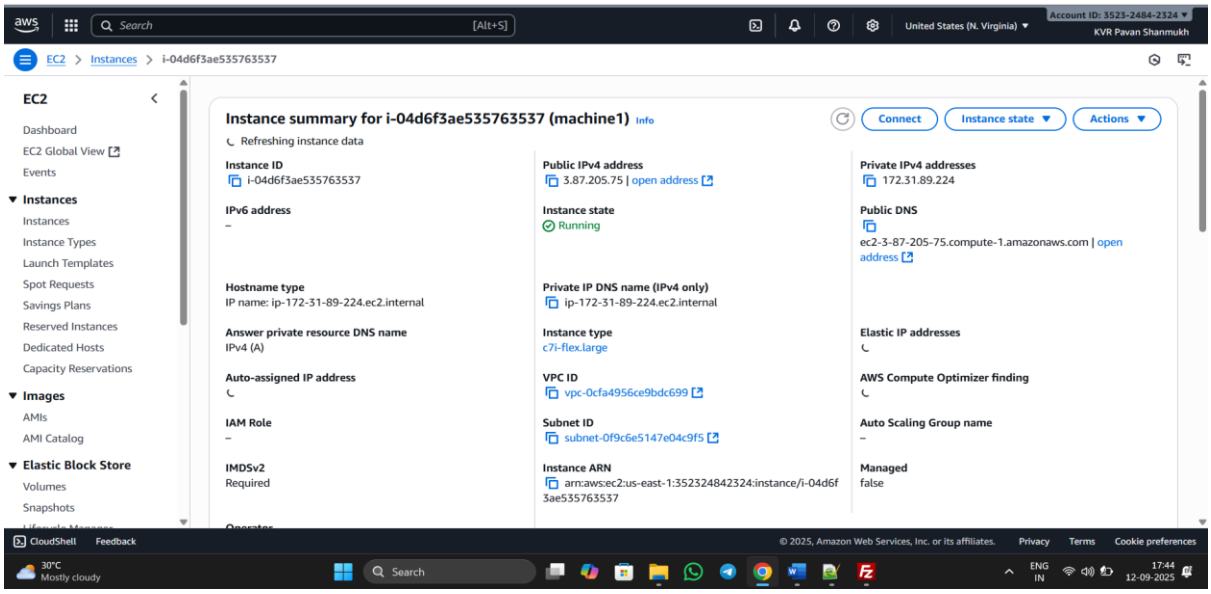
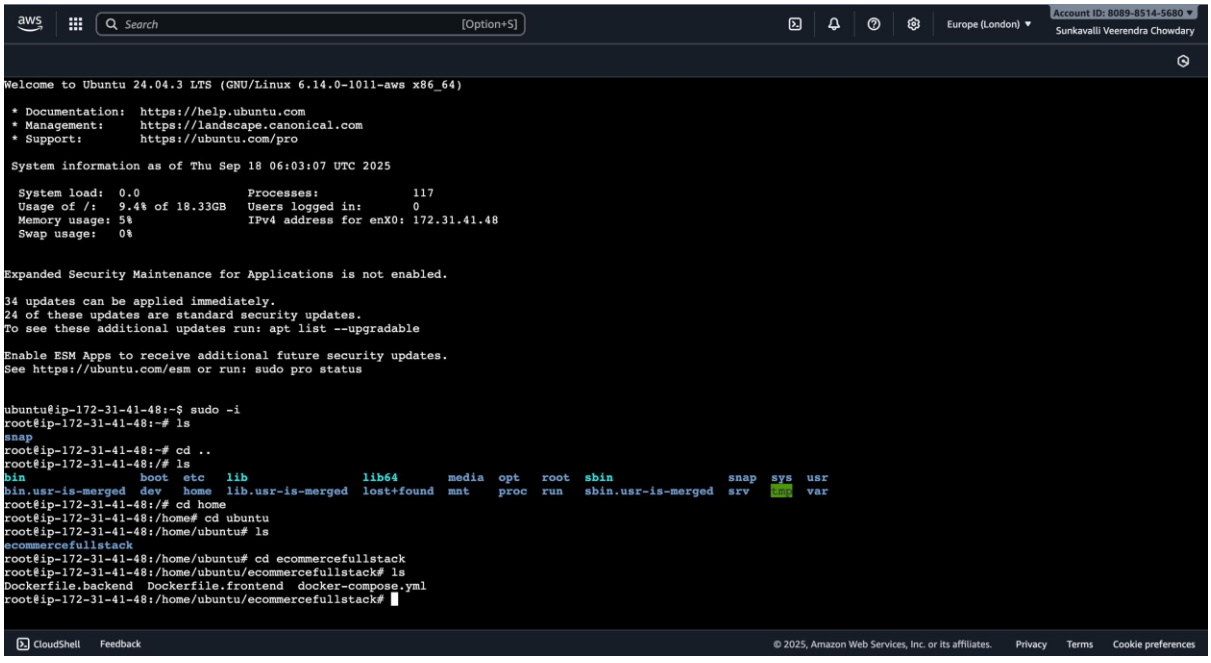
Now in AWS Console:
Scroll down and launch instance
-->Click Connect and then connect.



The Ubuntu environment will be open.
Run the commands one after another:



Run the commands:
docker exec -it ecommerce-db1 /bin/bash
mysql -u root -p
root

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select * from ecommerce.users;

Output Verification:

Place the ec2ip like this to see the output:
Frontend:

http://<your ec2 ip>:8082/ecommerce/

Backend:

http://<your ec2 ip>:8083/back1/