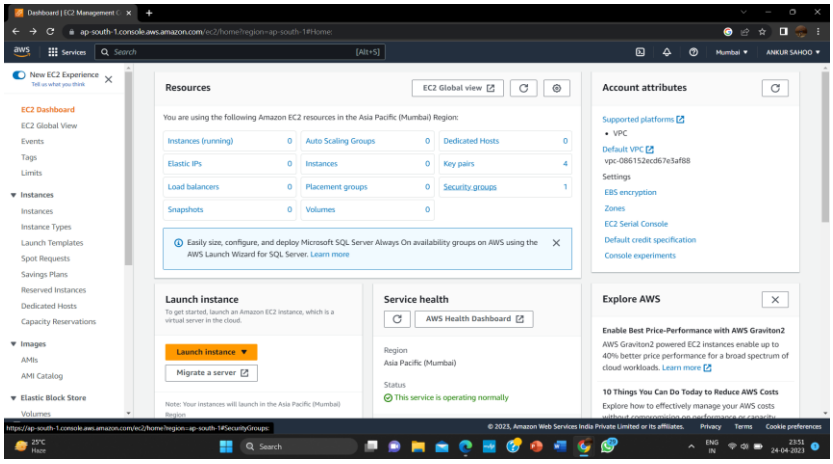
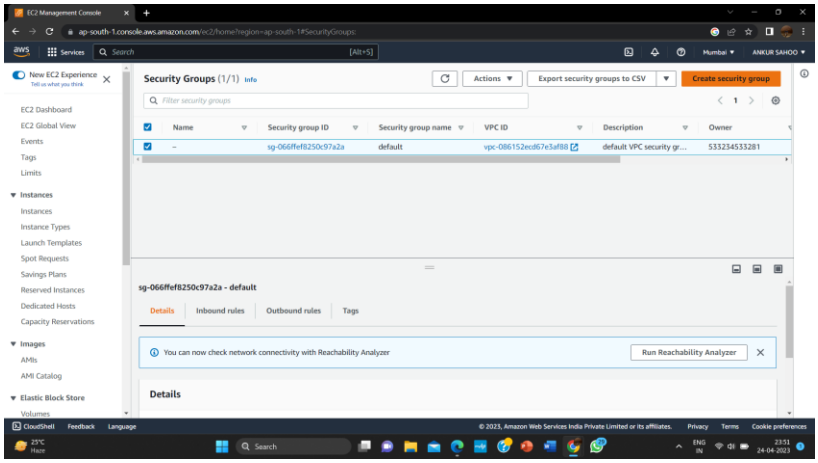
Assignment – 10

Problem Statement – Deploy a project from GitHub to EC2 by creating a new security group and user data.

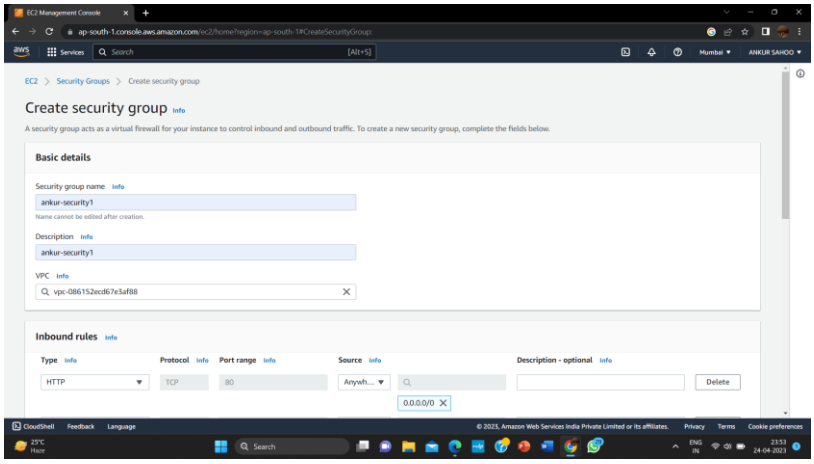
- Log in to your AWS account and go to EC2 Dashboard, then click on Security groups.



- Then click on Create security group.



- Set the Security group name and Description.



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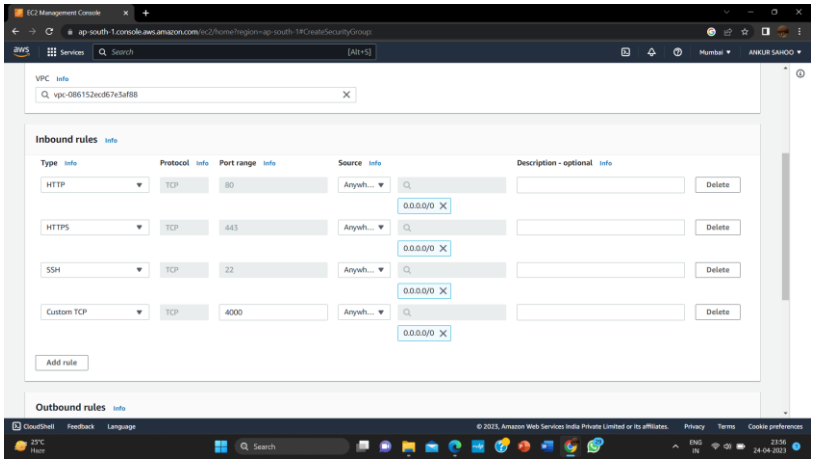
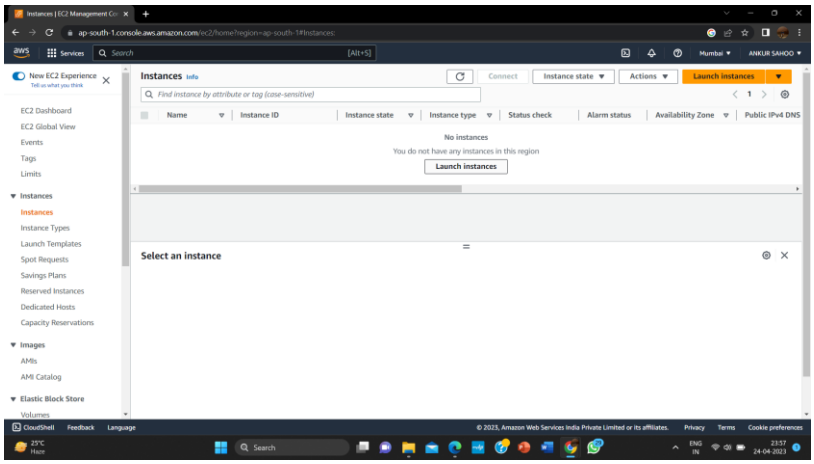
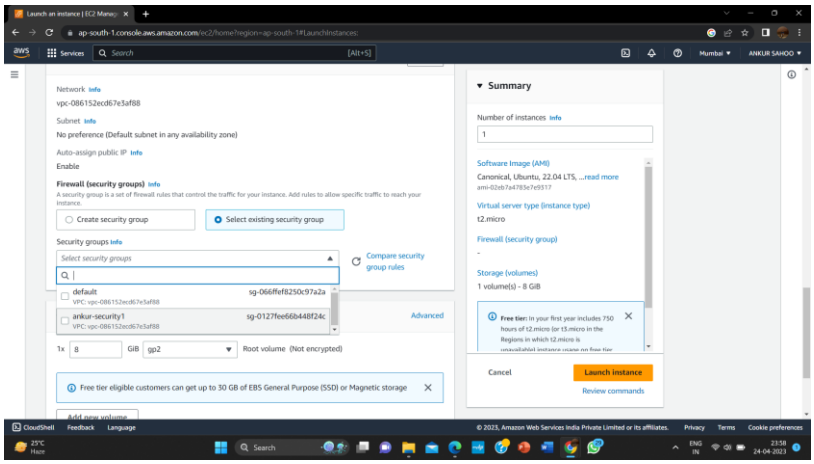
- Add these 4 Inbound rules by simply clicking on Add rule and selecting the Type, Port range and Source given below. Then scroll down and click on Create security group leaving the rest of the settings as it is.



- Then come back to EC2 Dashboard and click on Instances, then click on Launch instance.



- Enter the name of the instance and select the server ‘Ubuntu’, keep the hardware as ‘t2.micro’ and select an existing key pair. Then on Network settings, click on Select existing security group and select your newly created security group.



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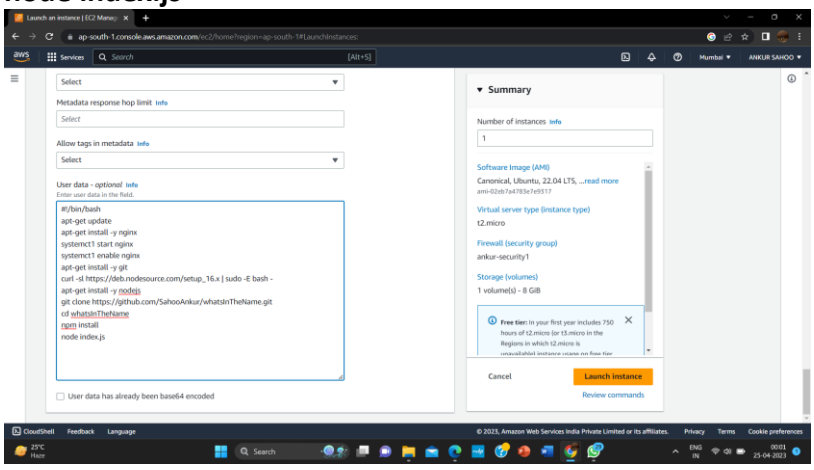
- Then click on the Advanced settings, scroll down and paste the code given below on User data section. Lastly click Launch instance.

#!/bin/bash
apt-get update
apt-get install -y nginx
systemctl start nginx
systemctl enable nginx
apt-get install -y git
curl -sL https://deb.nodesource.com/setup_18.x | sudo -E bash -
apt-get install -y nodejs
git clone *your repository link*
cd *folder name where the repo is cloned*
npm install
node index.js



- Then just click on the newly created instance, copy the Public IPv4 address from EC2 instance and paste it in a new tab with **:4000** and click enter and the webpage will run successfully.