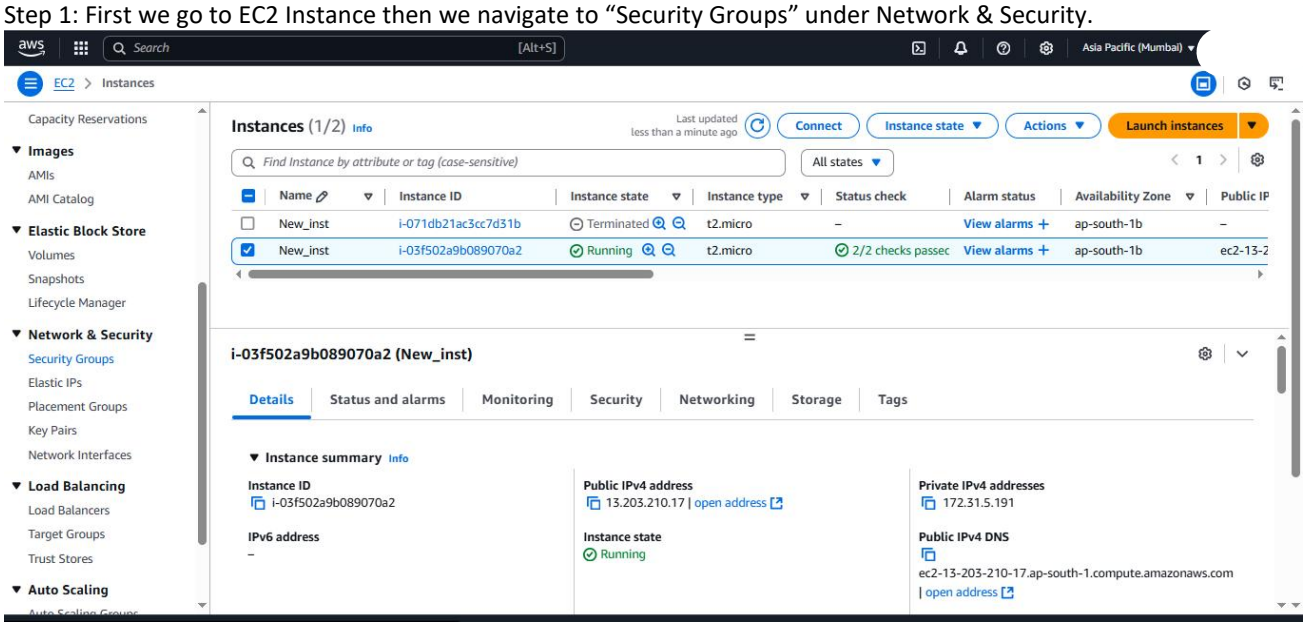
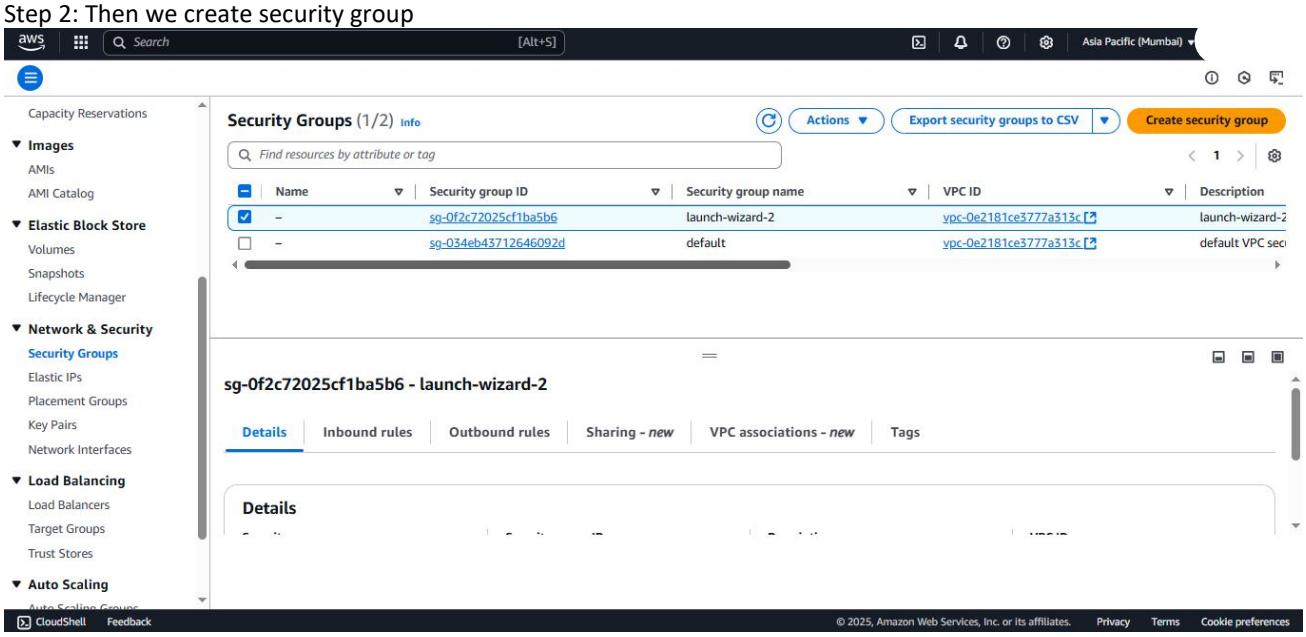
Assignment : 10

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

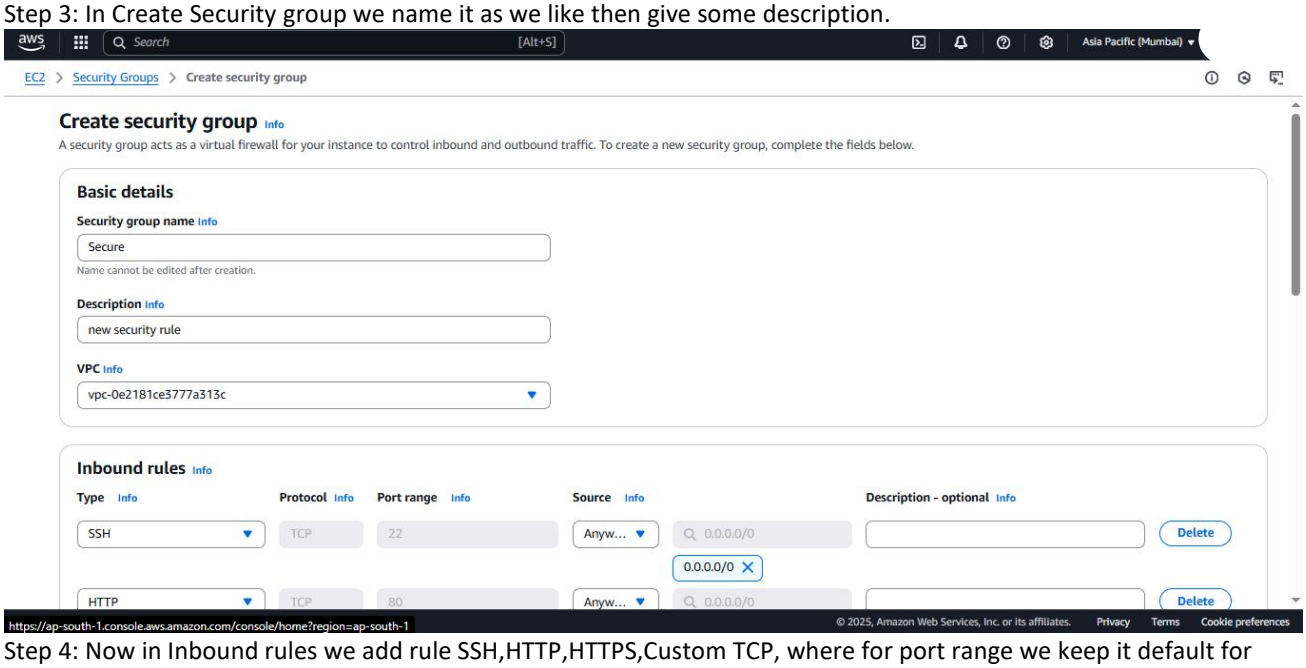
Step 1: First we go to EC2 Instance then we navigate to “Security Groups” under Network & Security.



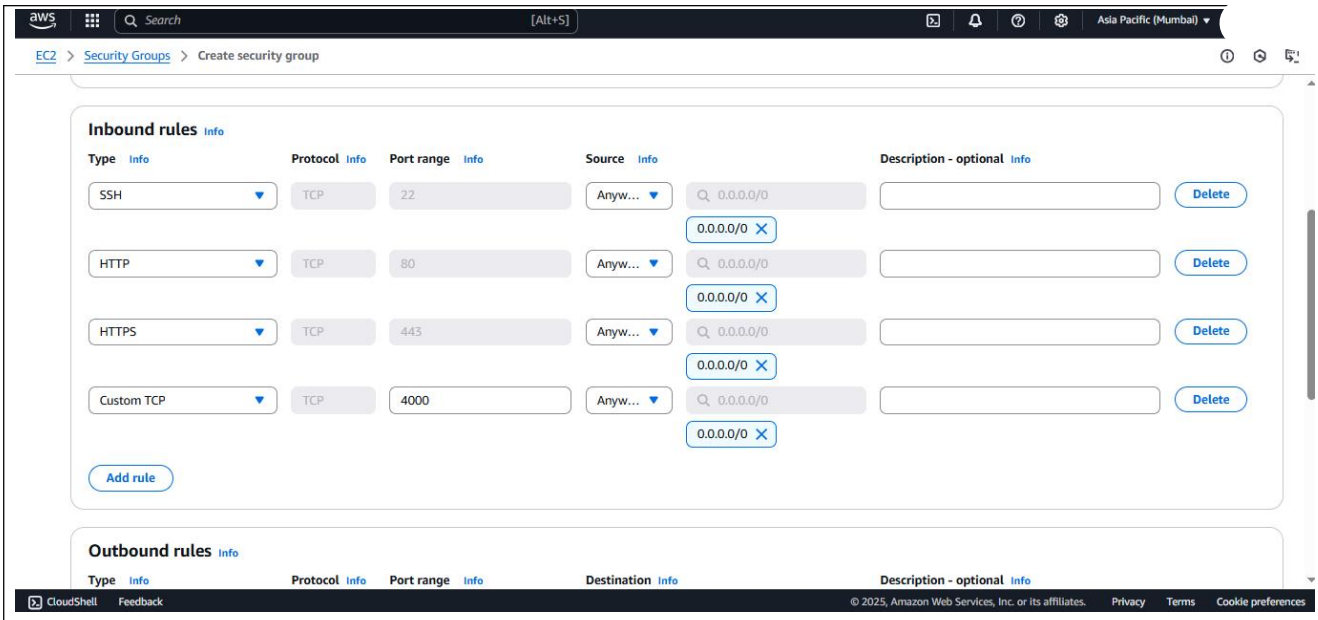
Step 2: Then we create security group



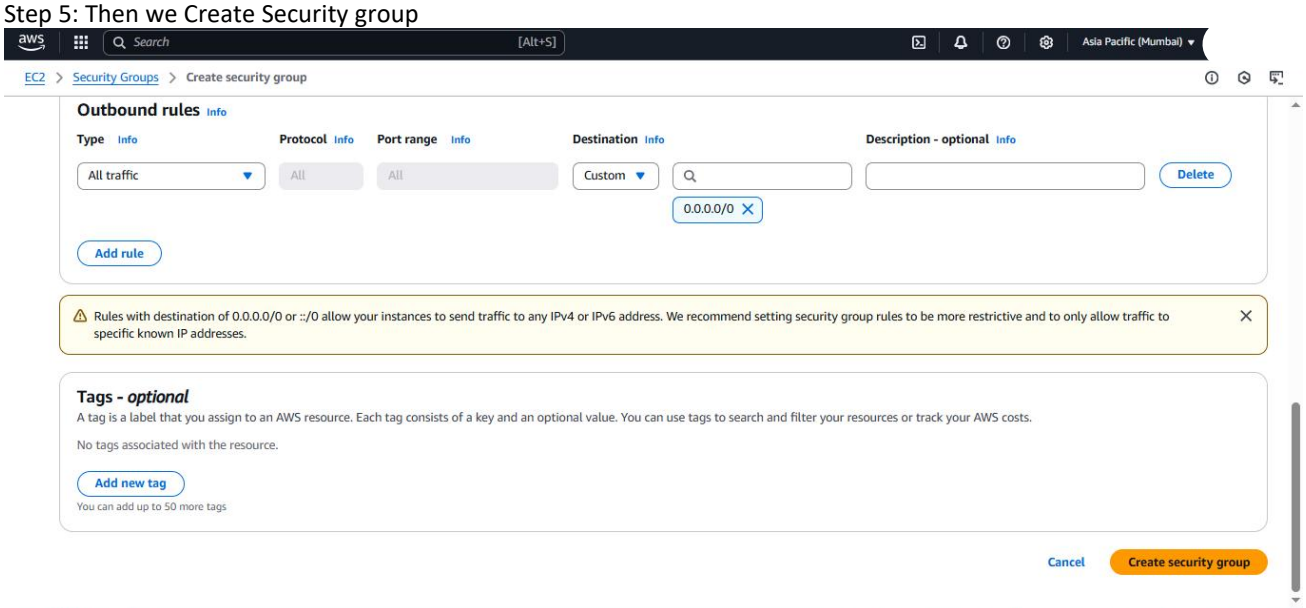
Step 3: In Create Security group we name it as we like then give some description.

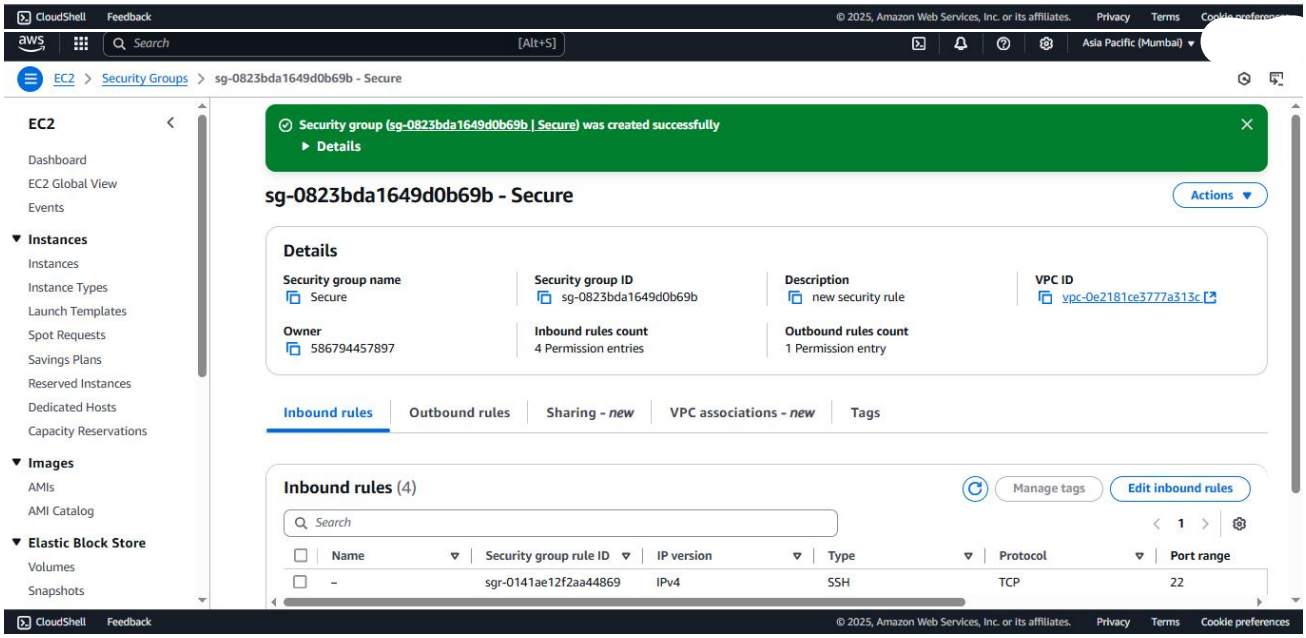


Step 4: Now in Inbound rules we add rule SSH,HTTP,HTTPS,Custom TCP, where for port range we keep it default for SSH,HTTP,HTTPS and for Custom TCP we set it to 4000. We set source to “Anywhere-IPV4” 0.0.0.0/0.

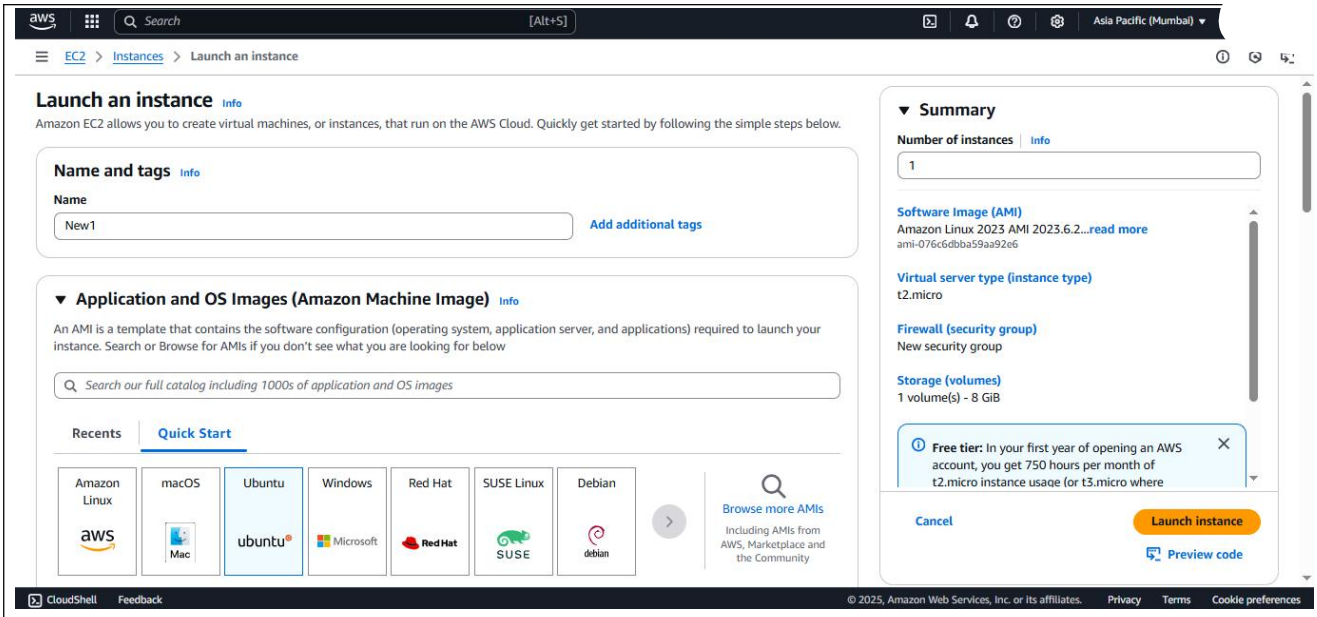


Step 5: Then we Create Security group

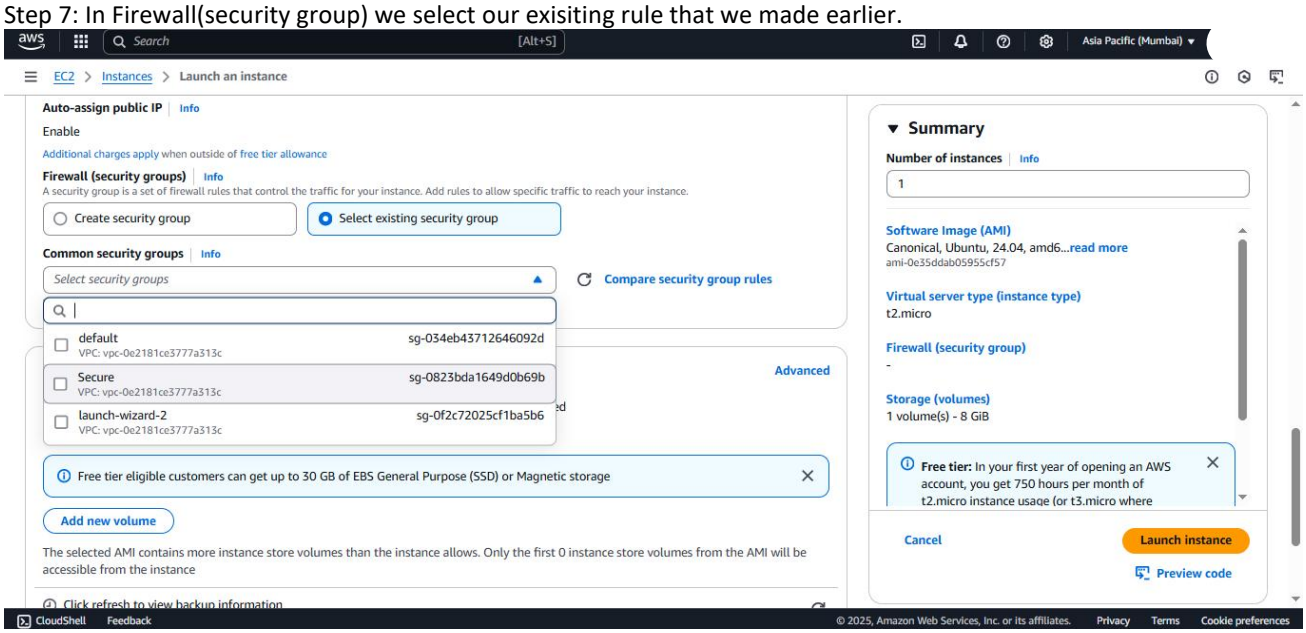




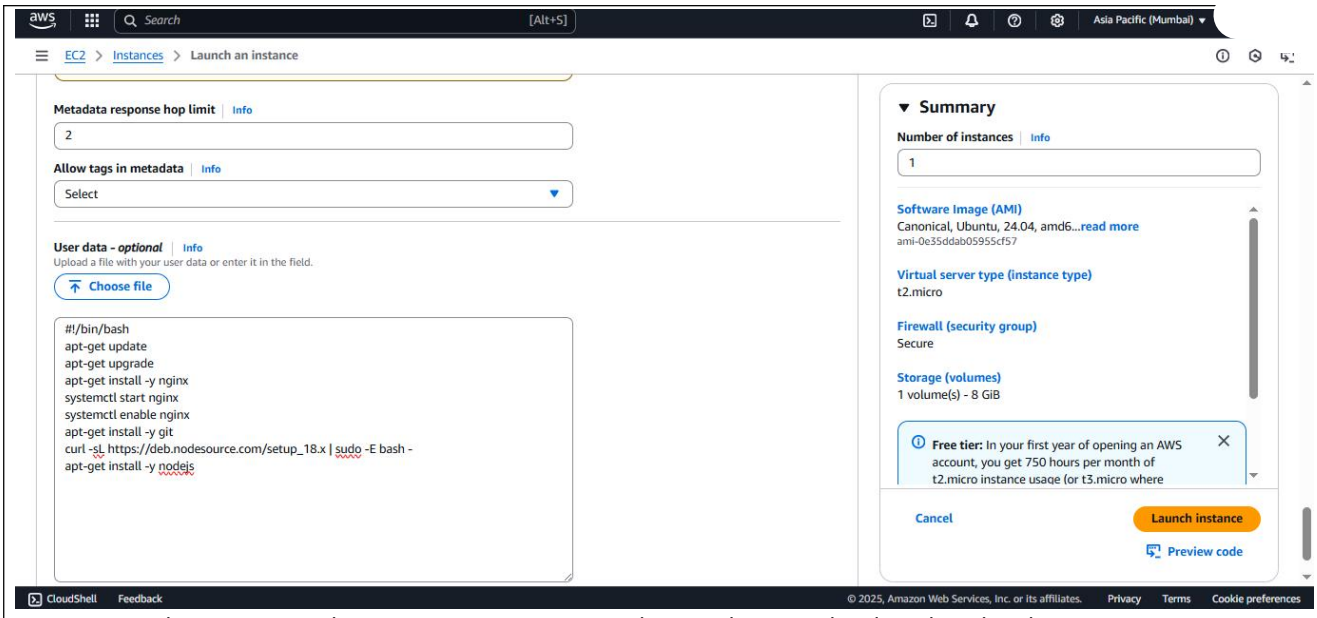
Step 6: Now we create a EC2 instance



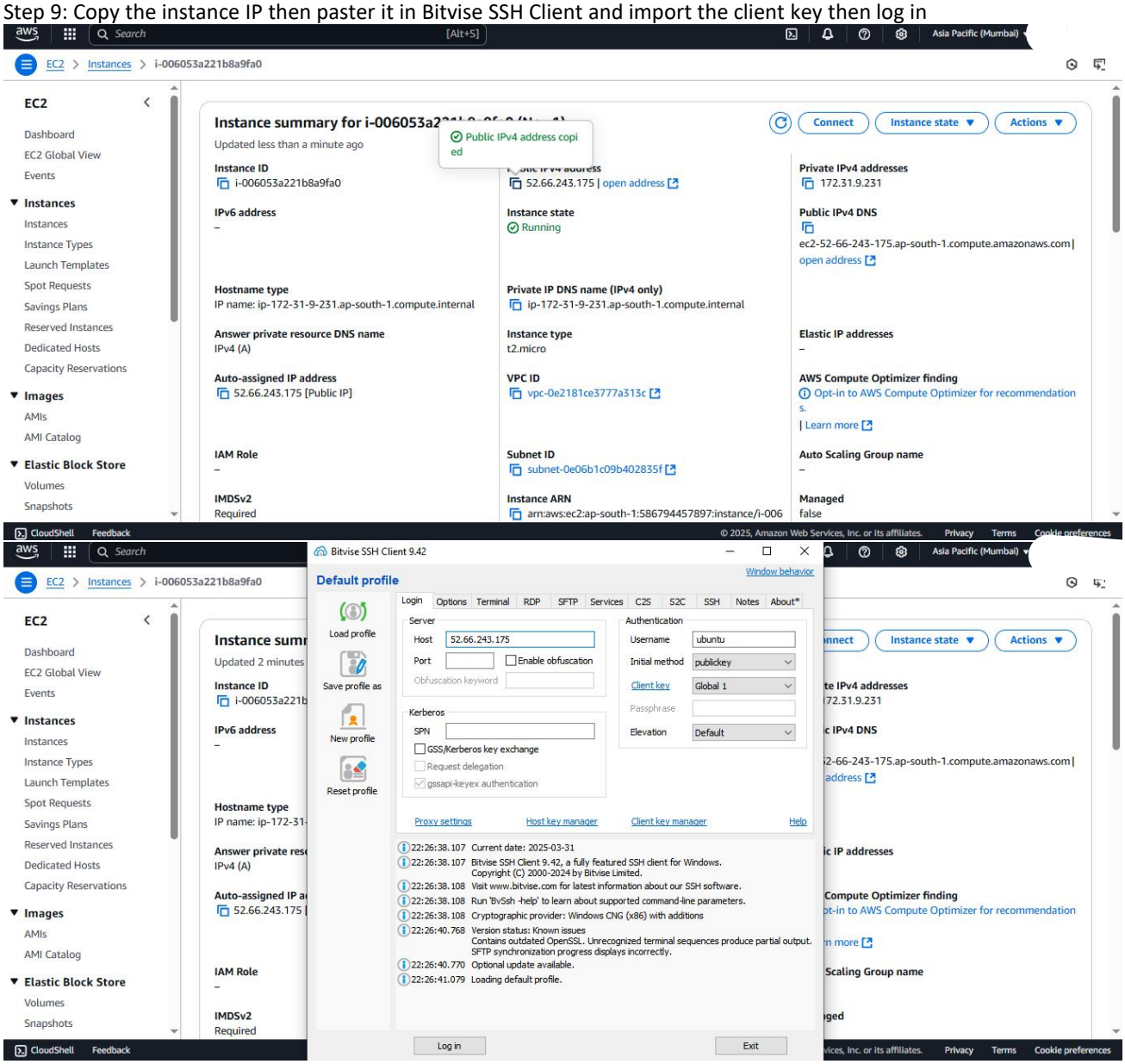
Step 7: In Firewall(security group) we select our exisiting rule that we made earlier.



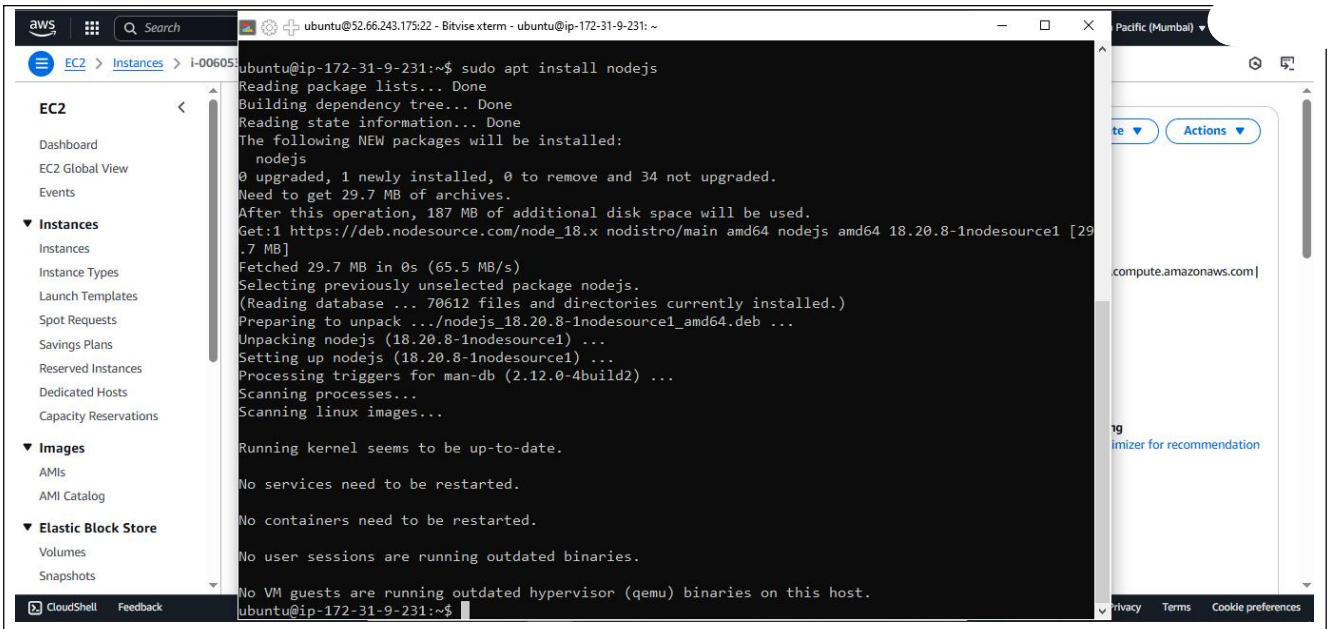
Step 8: Now we scroll down to the advance details and then in user data we write the commands
" #!/bin/bash
apt-get update
apt-get upgrade
apt-get install -y nginx
systemctl start nginx
systemctl enable nginx
apt-get install -y git
curl -sL https://deb.nodesource.com/setup_18.x | sudo -E bash -
apt-get install -y nodejs"
And launch the instance.



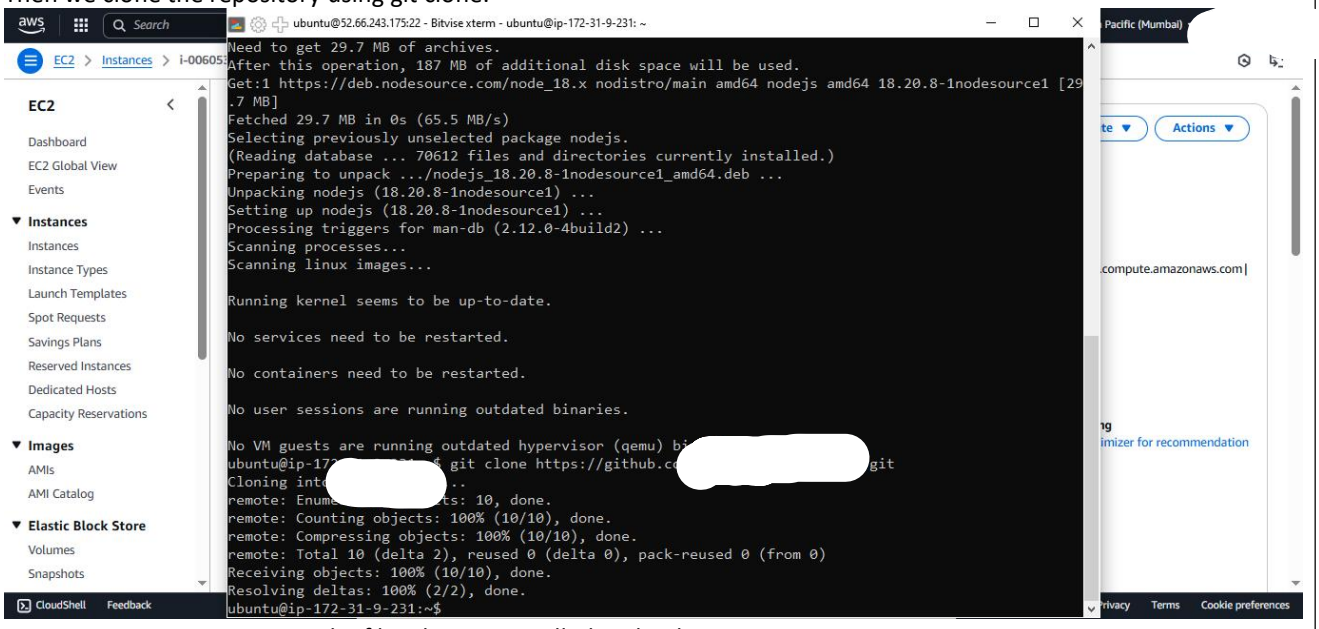
Step 9: Copy the instance IP then paster it in Bitvise SSH Client and import the client key then log in



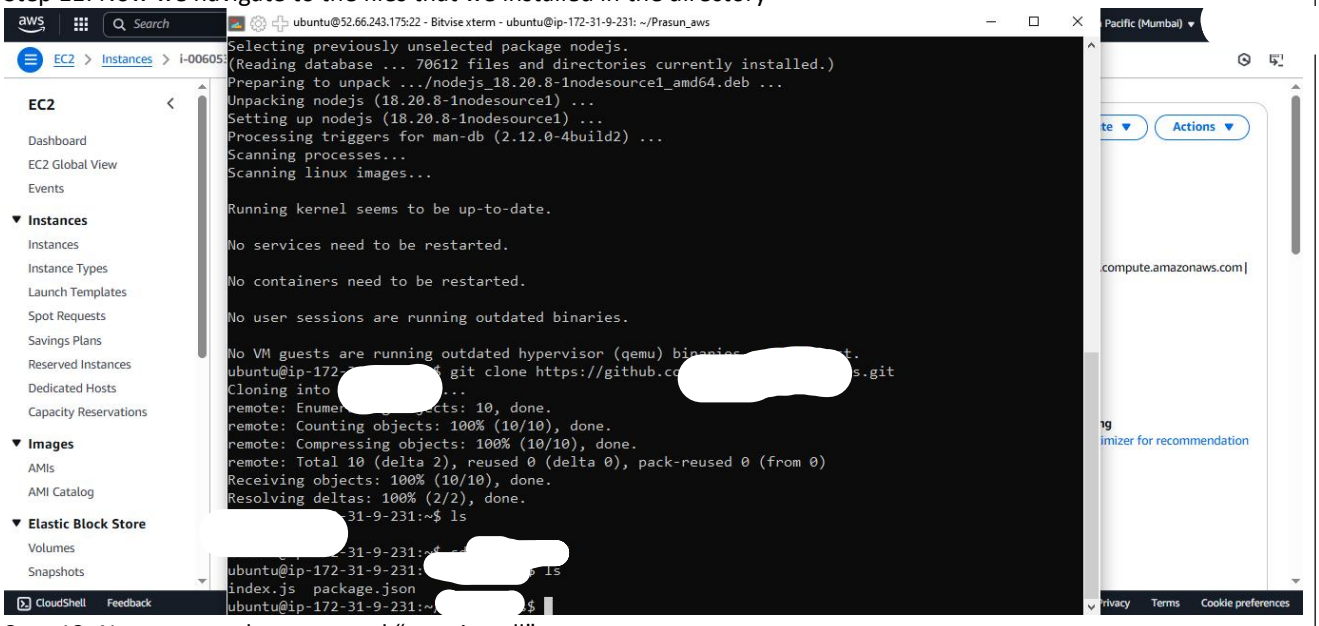
Step 10: Now that we have predefined commands we only need to run only few commands:
First command will be “sudo apt install nodejs”



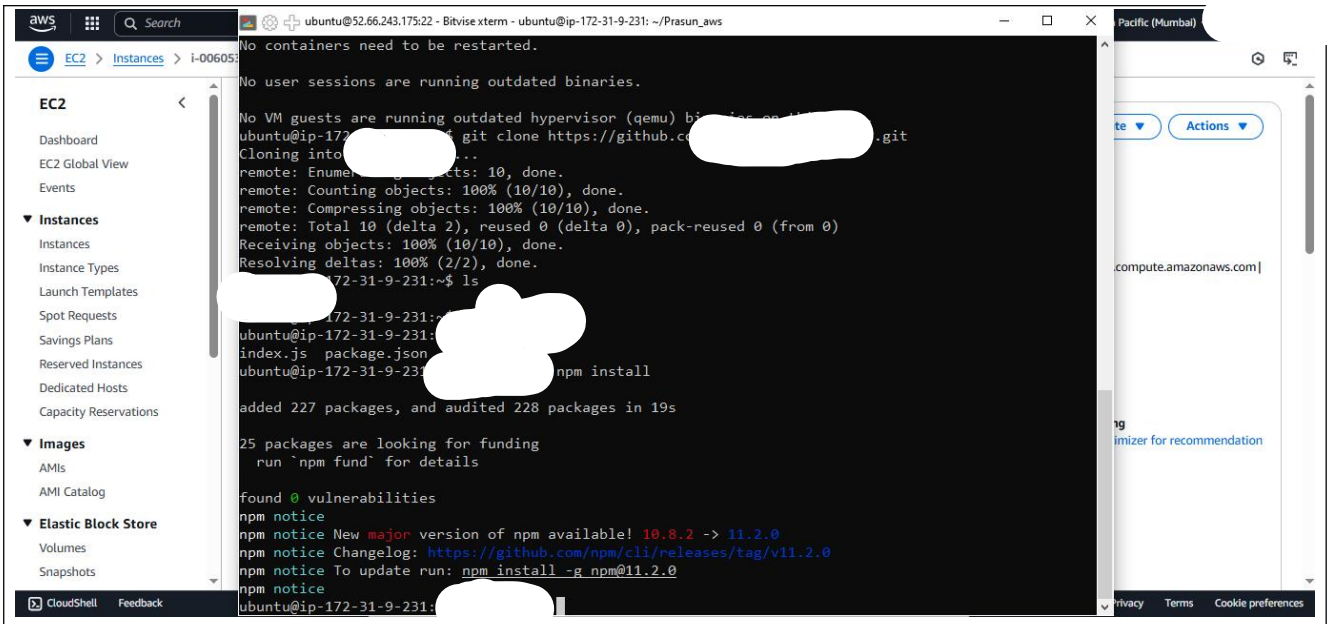
Then we clone the repository using git clone:



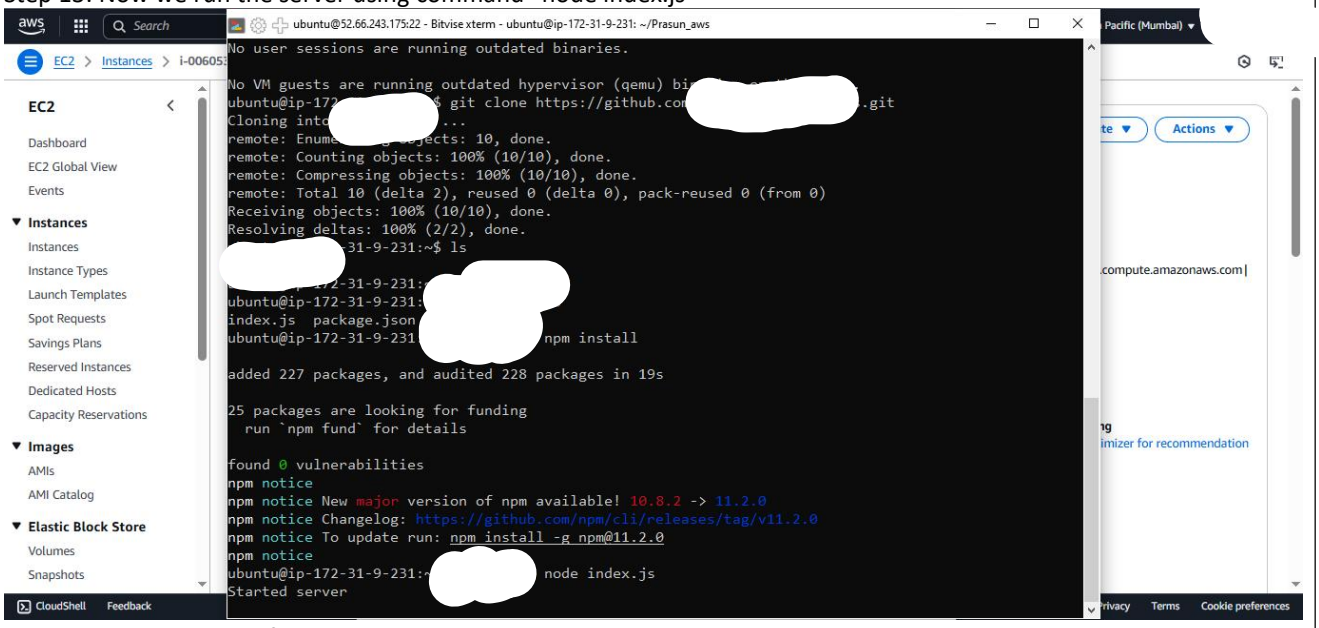
Step 11: Now we navigate to the files that we installed in the directory



Step 12: Now we run the command “npm install”



Step 13: Now we run the server using command "node index.js"



Step 14: Now we check if the server is running or not by opening incognito mode and going to the IP.

Step 15: Now we go to the IP 52.66.255.244:4000 to check our hosted project.

We have successfully hosted our project by using new security group.