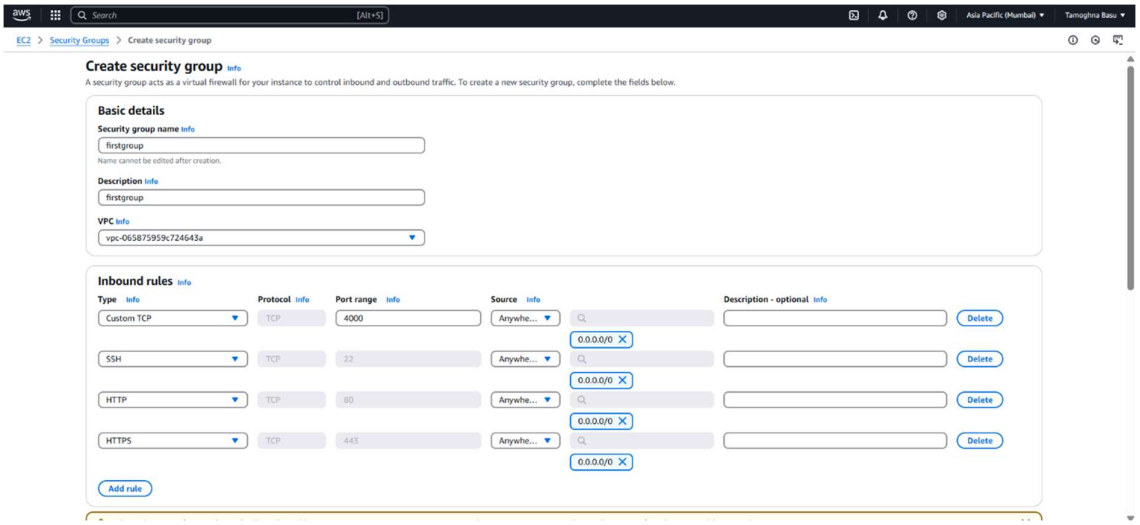
ASSIGNMENT – 10

Problem definition: Deploy a project from GitHub to EC2 by creating a new security group and user Data.

Solution:

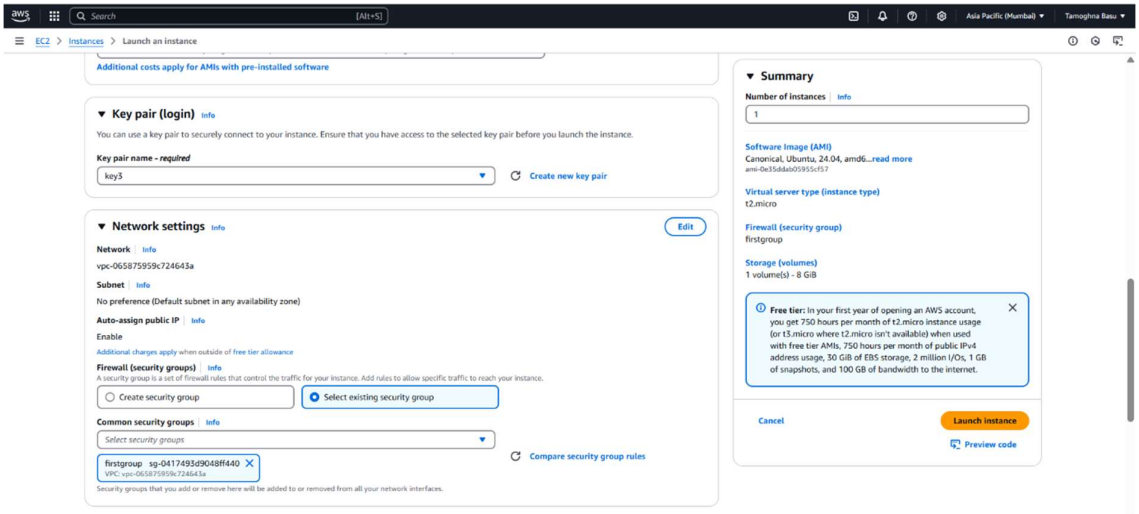
Step1:From aws console we select EC2 ,from EC2 network & security select security groups then select create security group.

Step2: :Next enter the security group name ,description and in inbound rule add rule type custom TCP ,port range 4000, source anywhere and 0.0.0.0/0 .



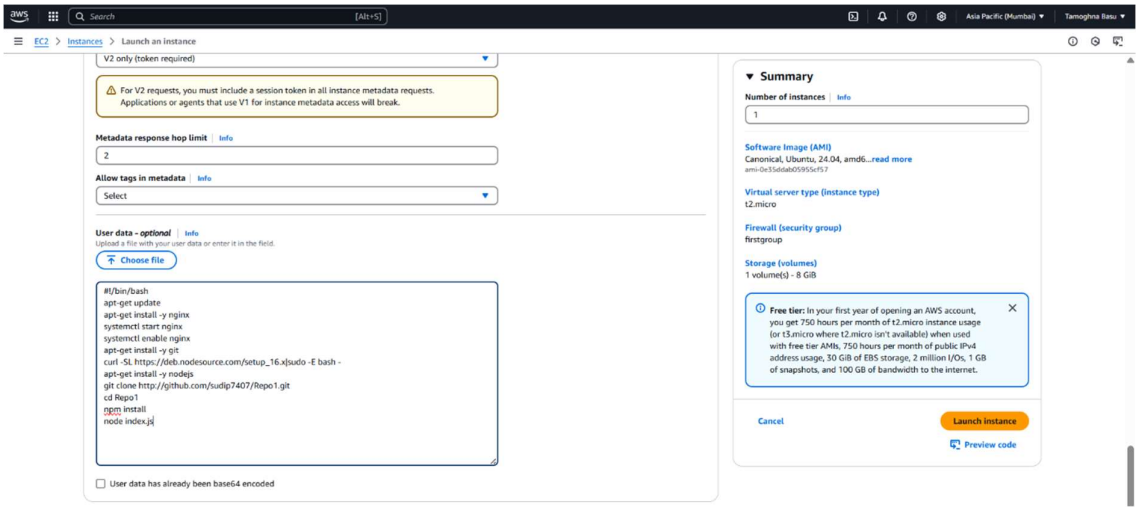
Step3:After creating the security group we will launch an instance on EC2 using the same security group.

Step4: To launch new instance we give instance name, select ubuntu, select key pair and in network setting's firewall part check select existing security group. From the dropdown select newly created security group.

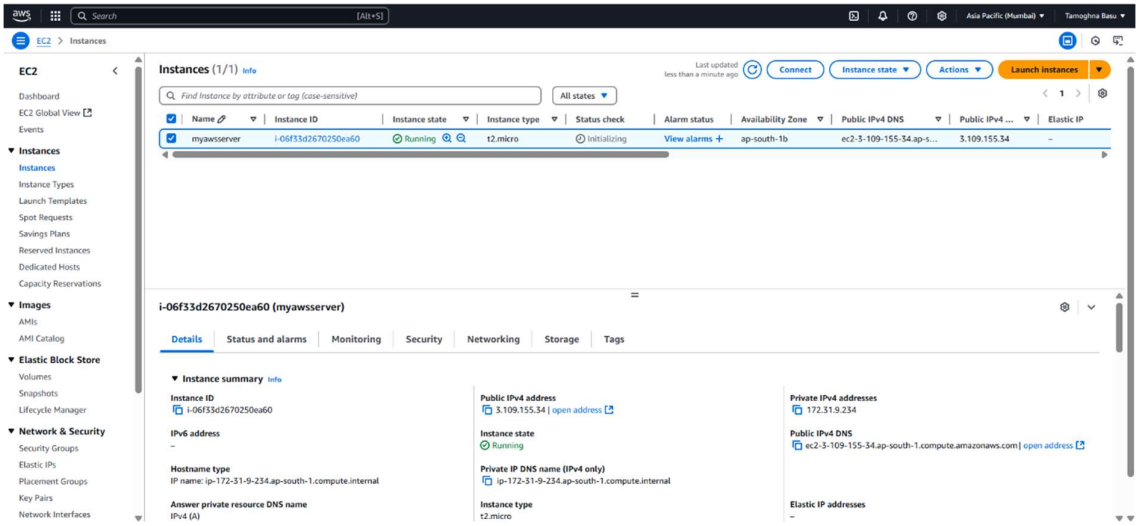


Step 5:In advanced settings option's user data part add some command. Then click launch instance

```
#!/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_16.x|sudo -E bash -
apt-get install -y nodejs
git clone http://github.com/sudip7407/Repo1.git
cd Repo1
npm install
node index.js
```



Step6: After that from instance copy public ip address, which is 13.200.215.24



Step7: At last we paste the ip address with port number on browser.

Hello World