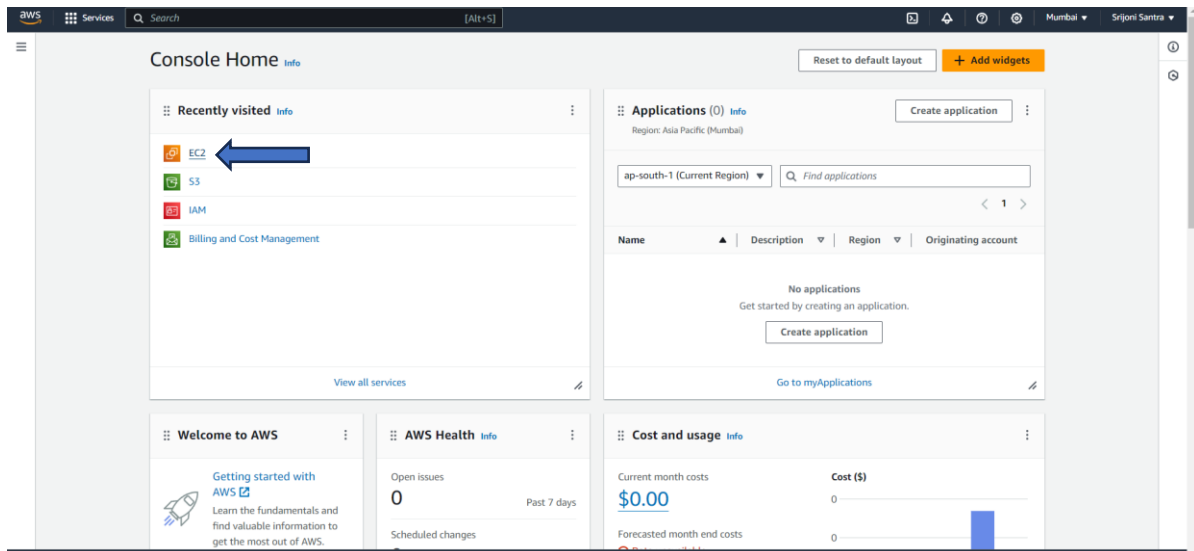


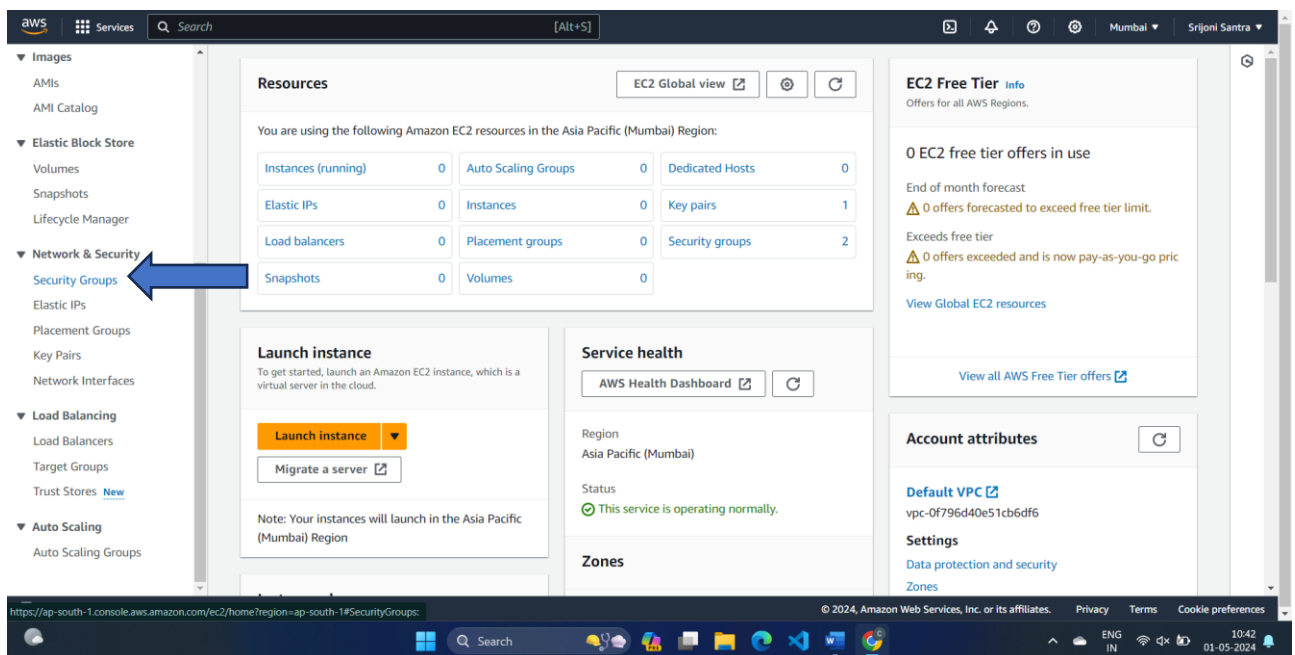
ASSIGNMENT-10

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

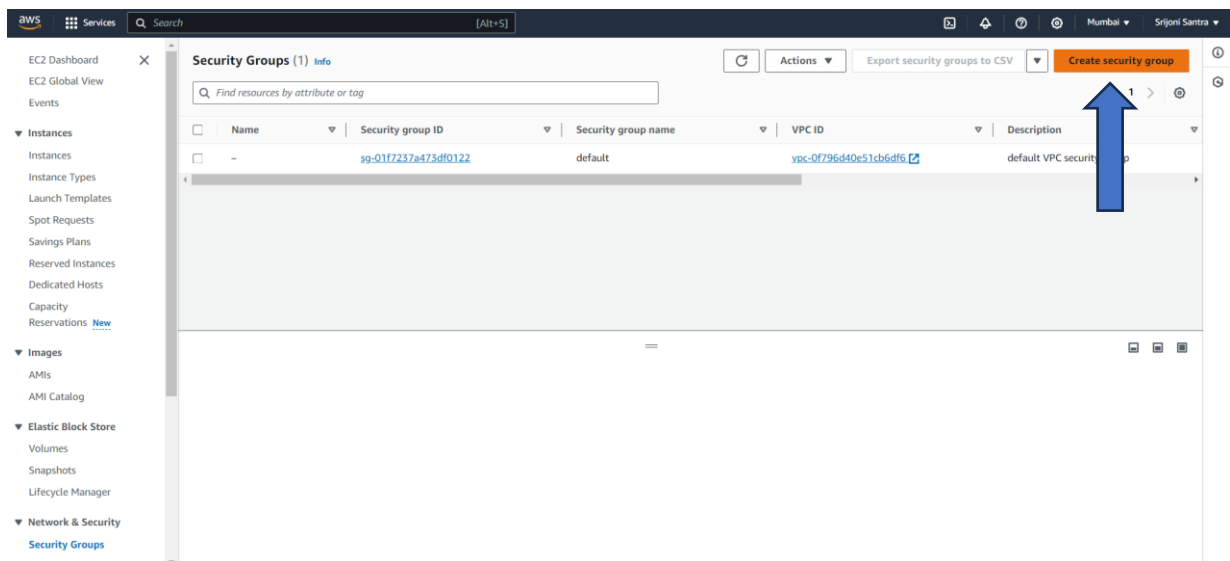
Step 1: Login to the console and click on EC2



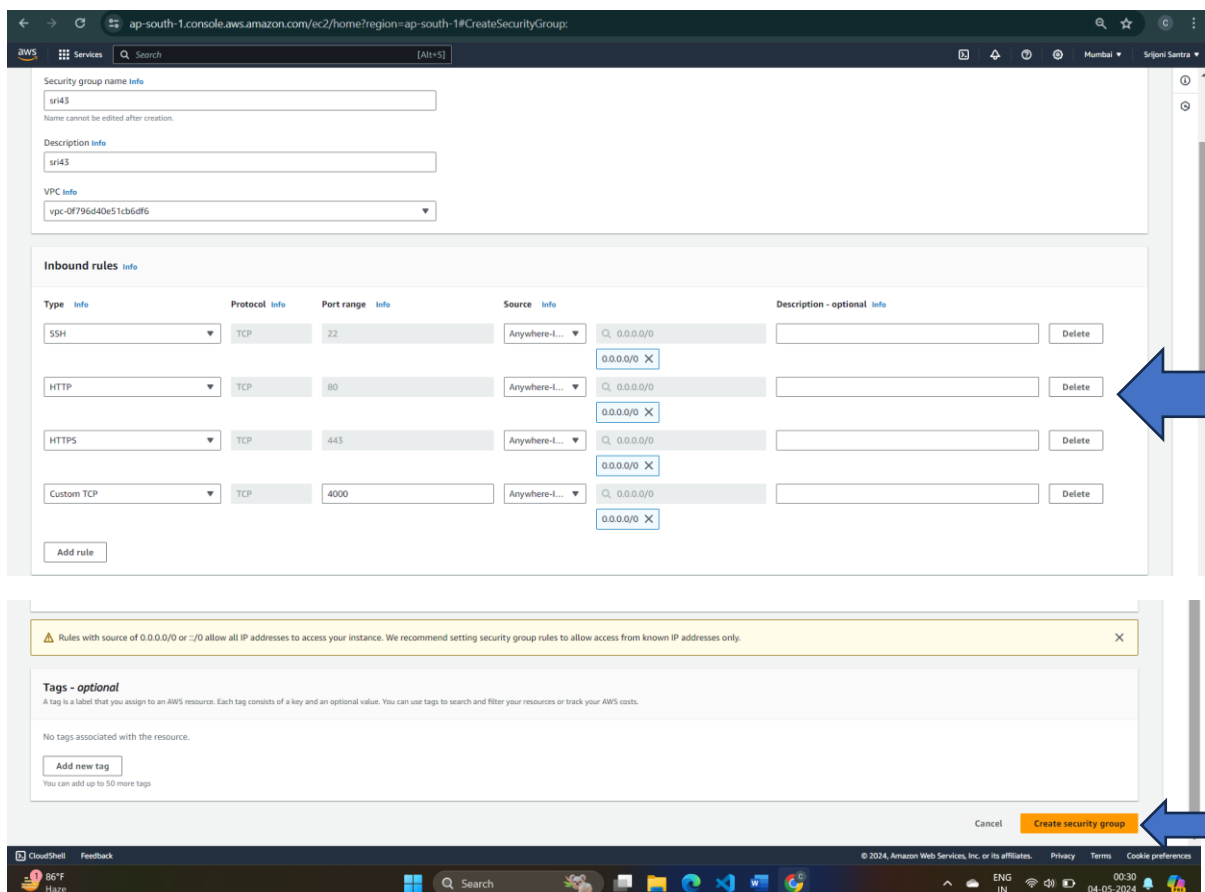
Step 2: Then click on Security Groups



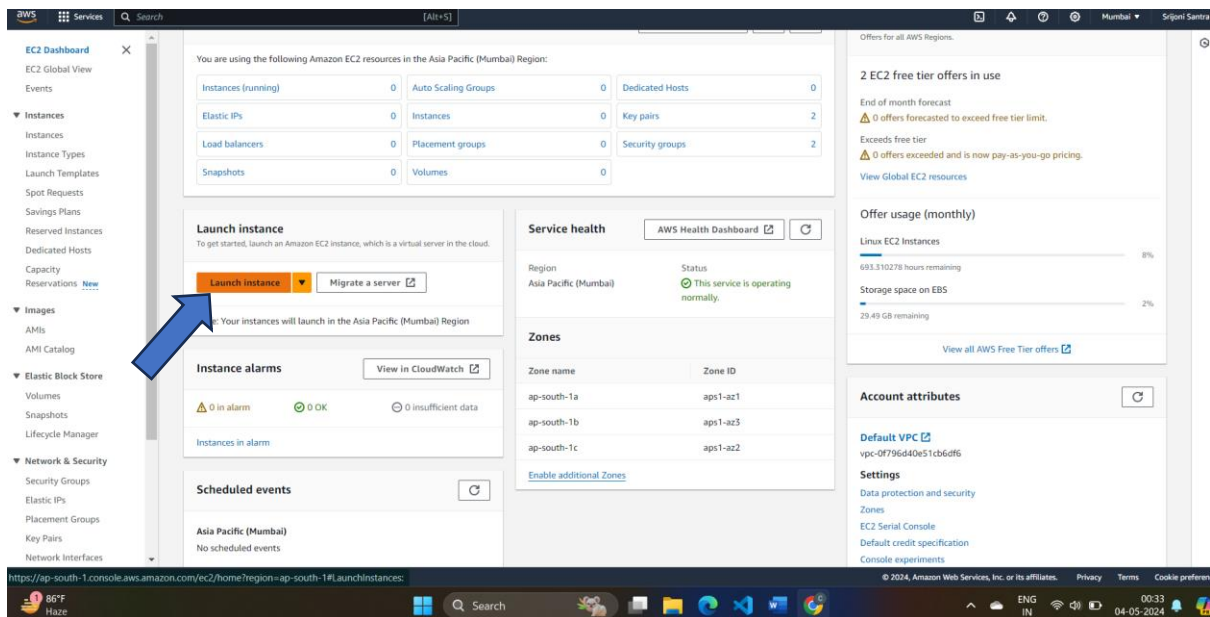
Step 3: Then go to the “Create Security group”



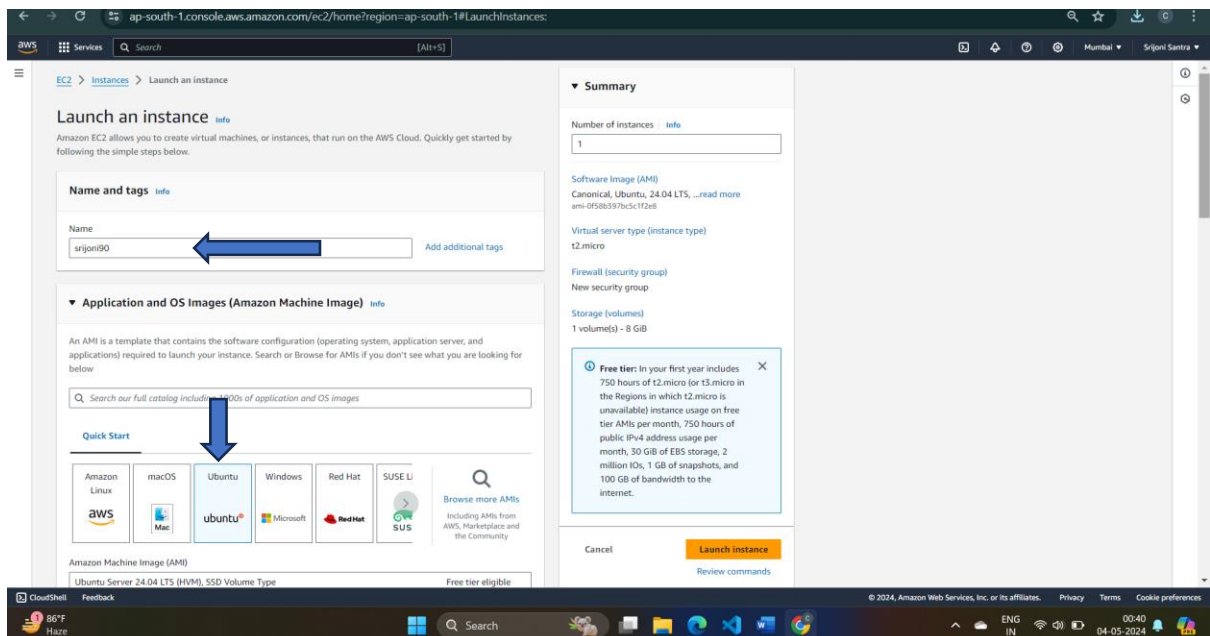
Step 4: Write security group name, add inbound rules and click on “Create security group”.



Step 5: The security group is created. Now go to the EC2 and click on “Launch Instances”.



Step 6: Write the instance name and select Ubuntu



Step 7: Select the option “Select existing security group” and choose the newly created security group.

The screenshot shows the 'Launch Instance' wizard in the AWS Management Console, specifically the 'Network settings' step. The 'Key pair (login)' section shows a key pair named 'sri45'. The 'Network settings' section shows the VPC 'vpc-0f796d40e51cb6df6' and the subnet 'No preference (Default subnet in any availability zone)'. The 'Firewall (security groups)' section has two options: 'Create security group' and 'Select existing security group'. The 'Select existing security group' option is selected, and a dropdown menu shows the list of security groups, with 'sri43 sg-022f8b3f2494a337' selected. A blue arrow points to the 'Select existing security group' button, and another blue arrow points to the selected security group in the dropdown. The 'Summary' section on the right shows the number of instances (1), the software image (Canonical, Ubuntu, 24.04 LTS), the virtual server type (t2.micro), the firewall (sri43), and the storage (1 volume(s) - 8 GiB). A 'Free tier' notification is also visible. The 'Launch instance' button is highlighted in orange.

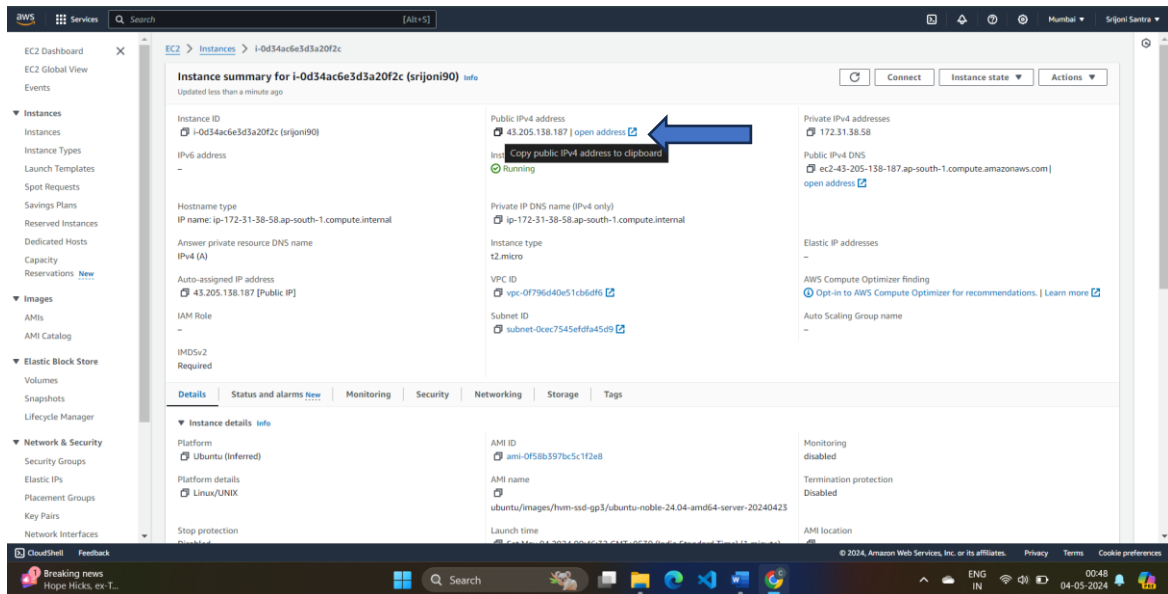
Step 8: Then click on the “advanced details” & write the commands and click on “Launch Instances”.

The screenshot shows the 'Launch Instance' wizard in the AWS Management Console, specifically the 'Advanced details' step. The 'Summary' section on the right is the same as in Step 7. The 'Advanced details' section on the left has a 'Metadata response hop limit' of 2 and 'Allow tags in metadata' set to 'Select'. The 'User data - optional' section has a text area with the following commands:

```
#!/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 https://github.com/sri2445/Repo2.git
cd Repo2
npm install
node index.js
```

 A blue arrow points to the 'User data' text area. The 'Launch instance' button is highlighted in orange. The bottom of the screen shows the Windows taskbar with the date and time as 04-05-2024, 00:45.

Step 9: After creating the instances copy public IPV4 address and paste in the new tab with the 4000 port no.



Step 10: A new window will open with the webpage.

