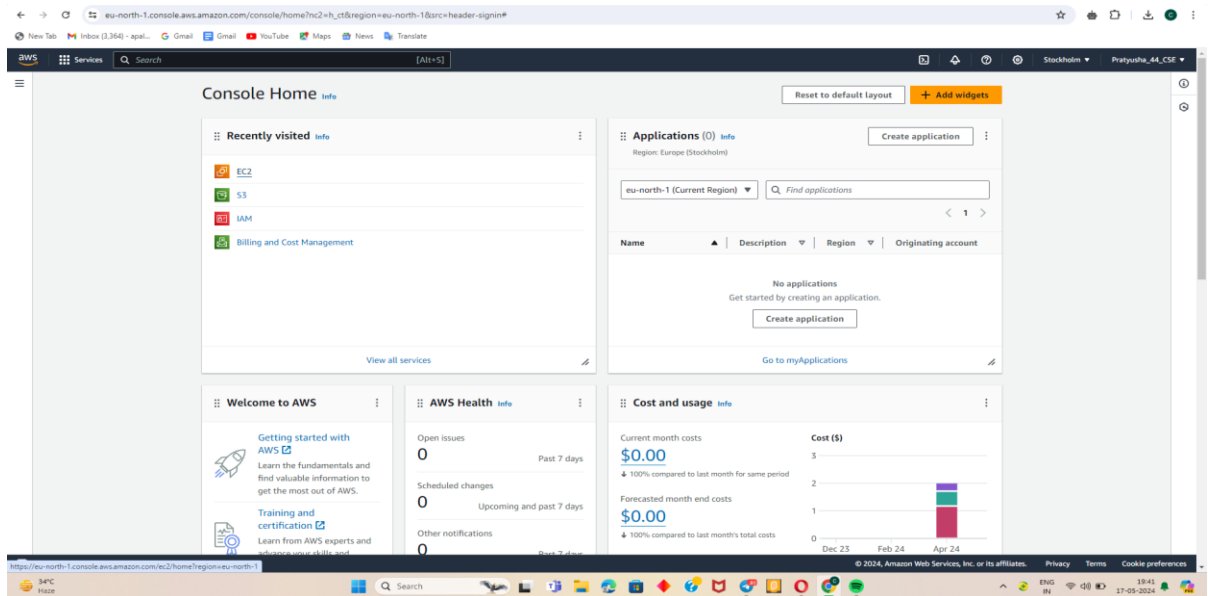


Assignment No: 10

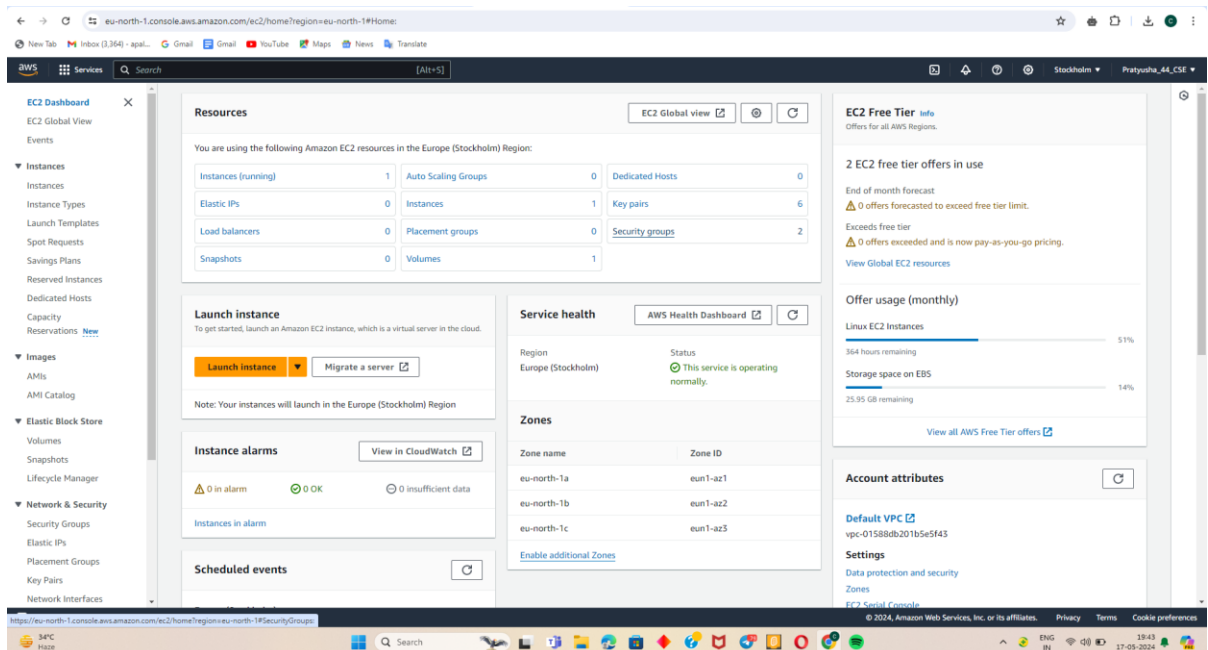
Problem Statement: Deploy a project from GitHub to EC2 by creating a new security group and user data.

Procedure:

1. Access your AWS console and search for EC2, then proceed to click on the first option.



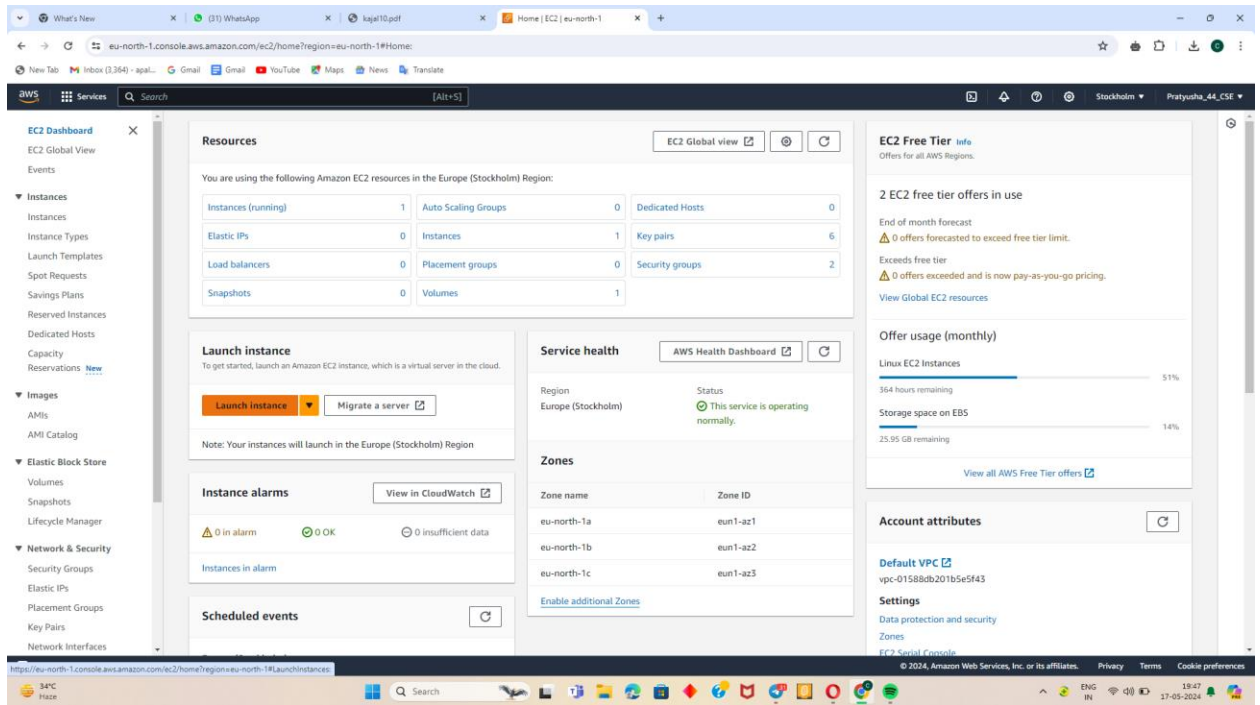
2. Now, Click on "Security Groups".



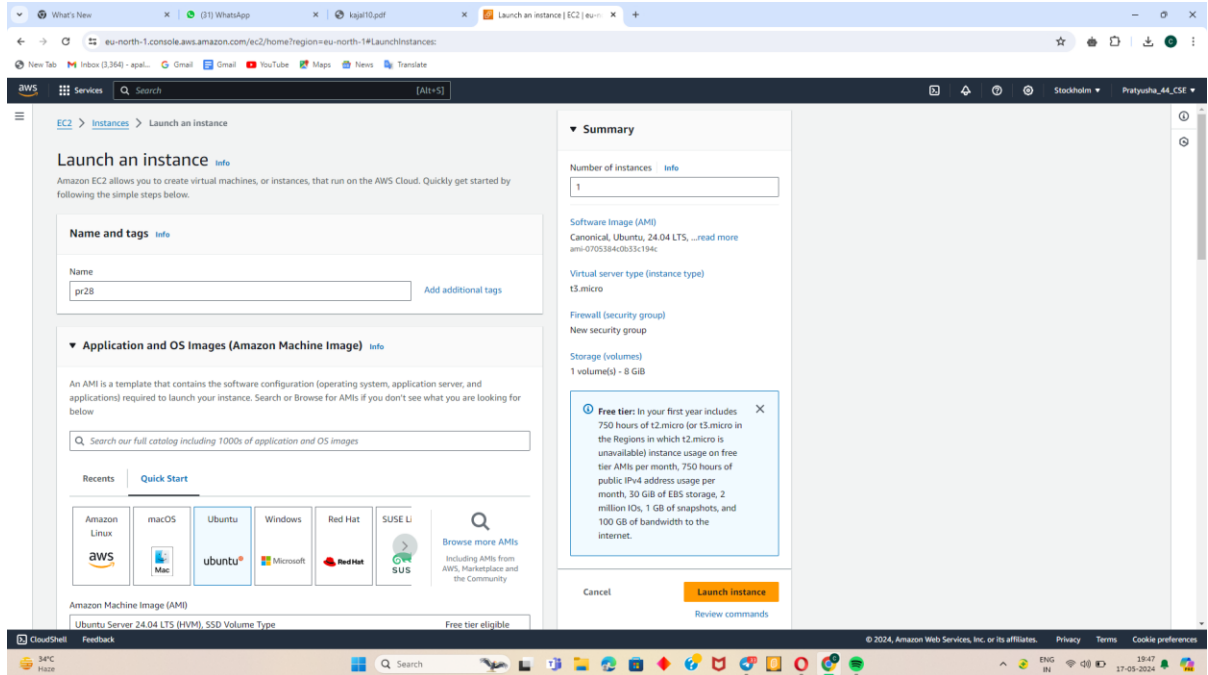
- Now click on “Create security Group” and then fill up the name and description of the security group.

- Now, scroll down to Inbound Rules and click on “Add rule” and set the port number as 4000 and select first option in CIDR blocks i.e. “0.0.0.0/0” then click on “Add rule” again and set type as “SSH” and select first option in CIDR blocks. Repeat this two more times and add rules of type “HTTP” and “HTTPS” and then Click on “Create security group”.

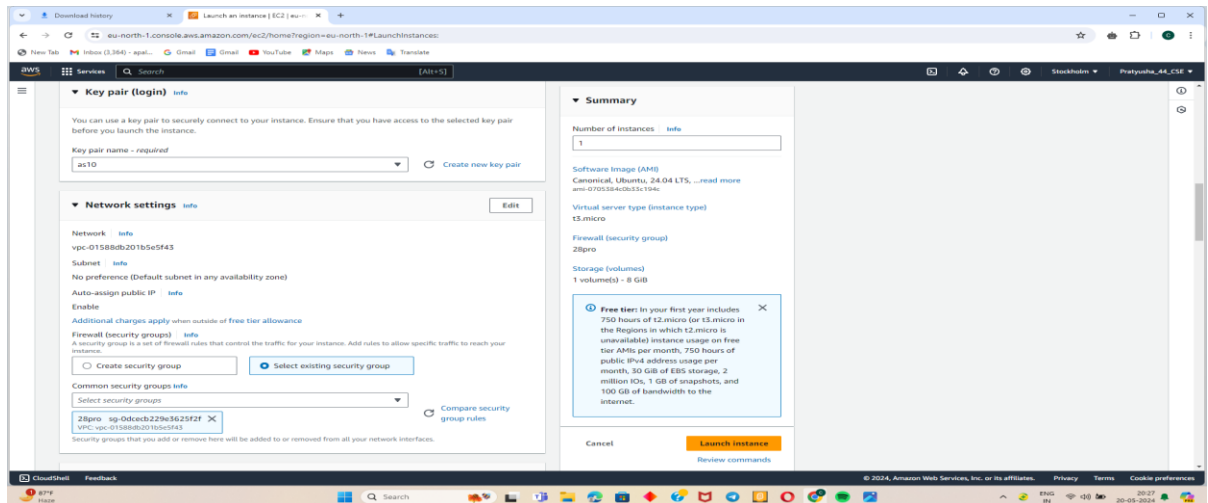
- Now, go to EC2 dashboard and click on “Launch instance”.



6. Fill up the instance name and select Ubuntu as the AMI.



7. Select an existing key pair or create a new one and then select “Existing security group” and select the newly created security group.

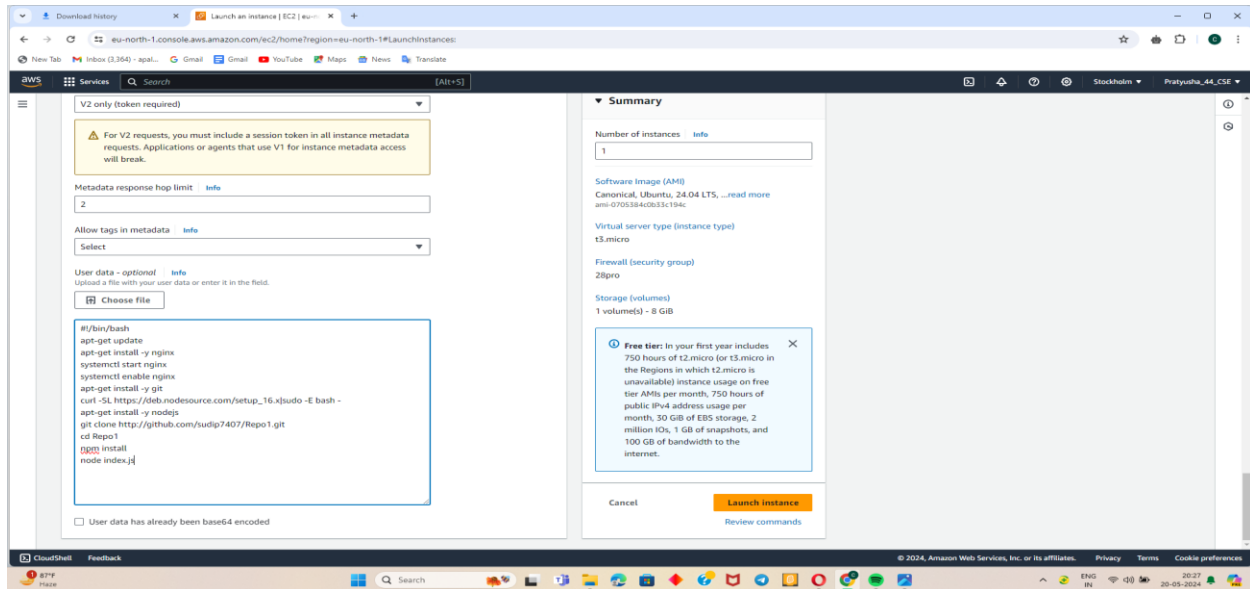


8. Expand the “Advanced details” section.

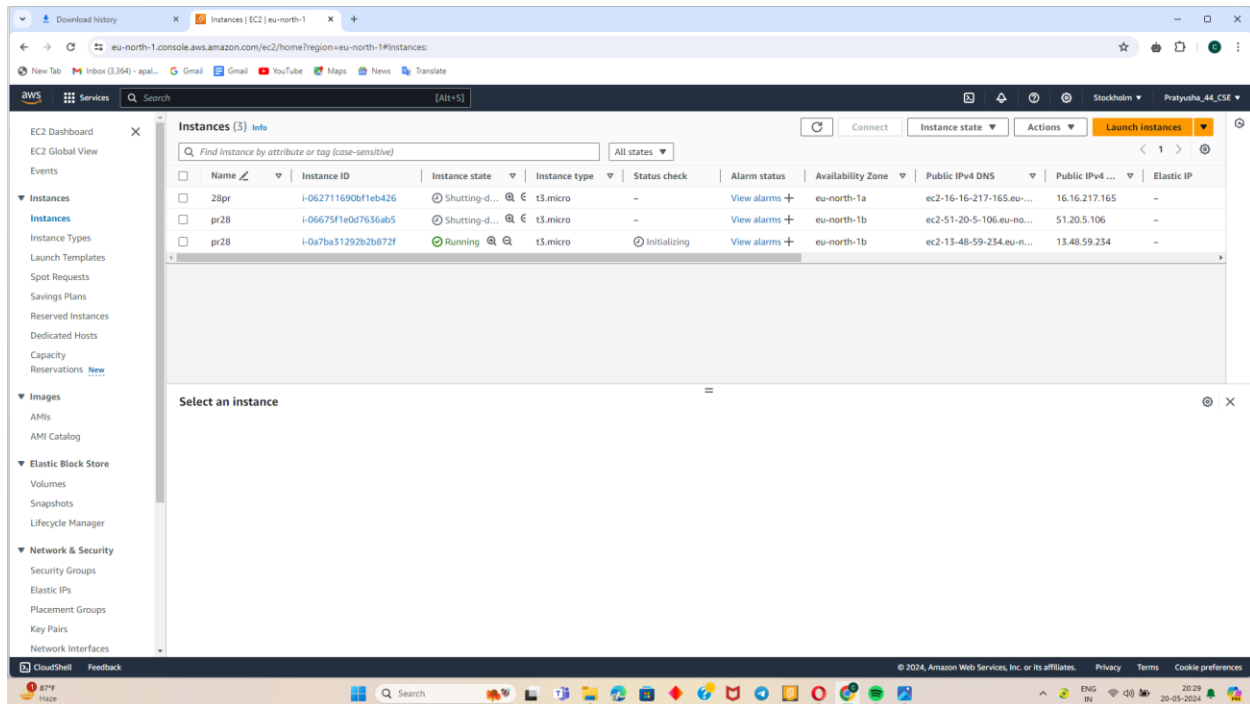
Scroll down to the “User data” section and the following script:

```
#!/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 <github repository cloning link>
cd Repo1
npm install
node index.js
```

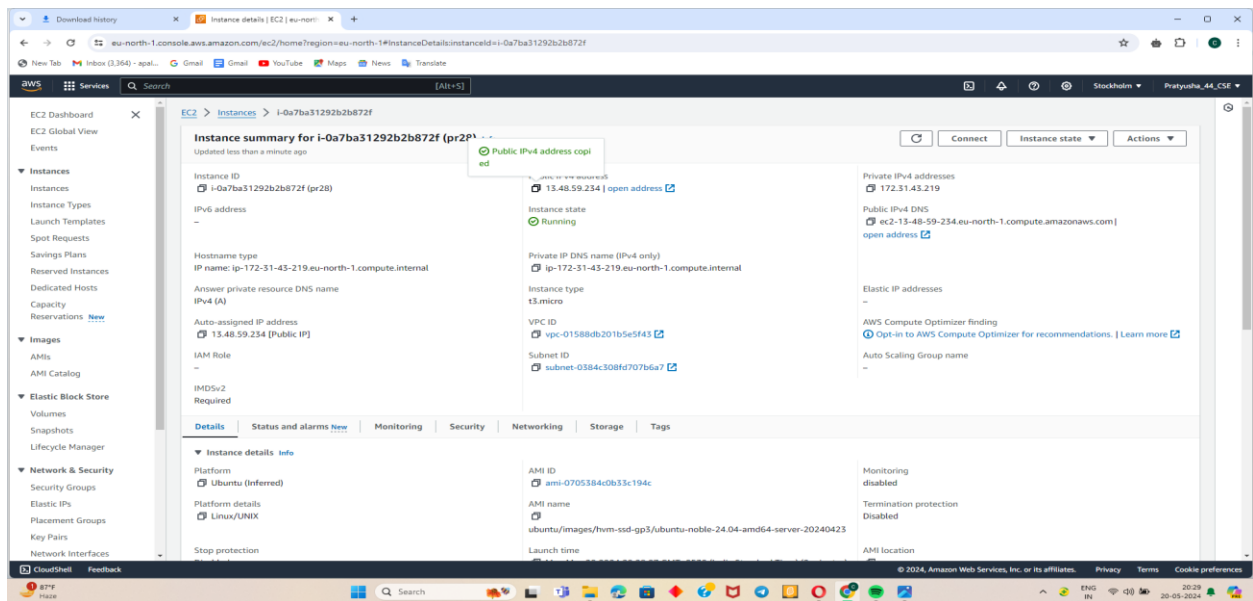
Then Click on “Launch instance”.



9. Now go to “Instances” and click on the instance id of the newly created instance.



10. Copy the public IPv4 address.



11. Open a new tab and paste the IPv4 address copied and add “:4000” to the end of it this will display our intended website.

