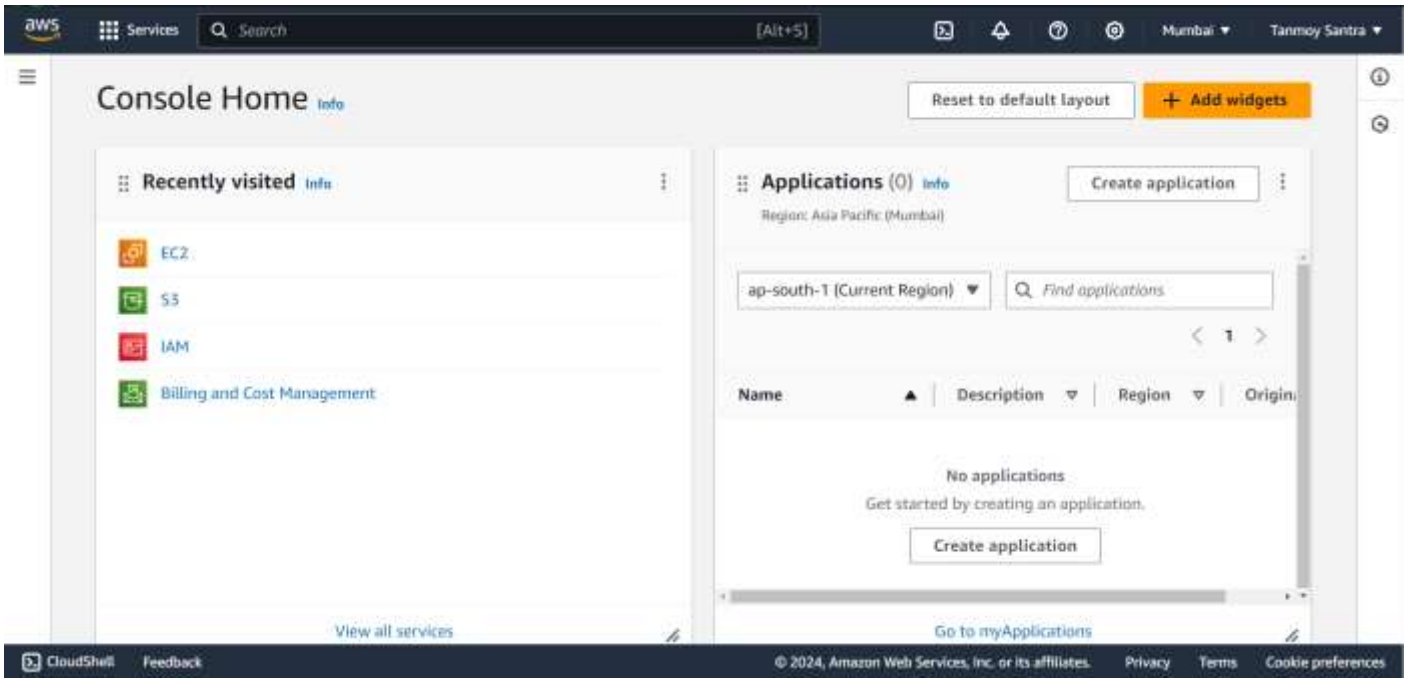
ASSIGNMENT - 9

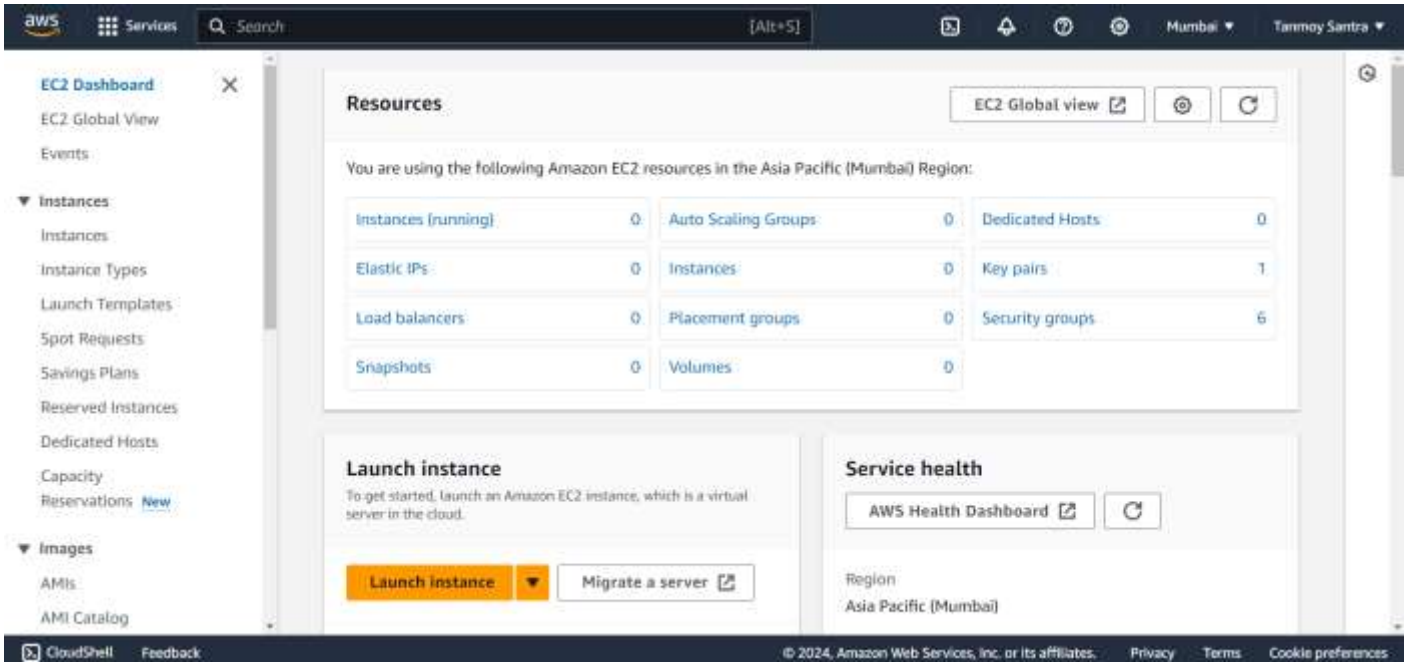
PROBLEM STATEMENT - Deploy a project from GitHub to EC2.

To Deploy the project

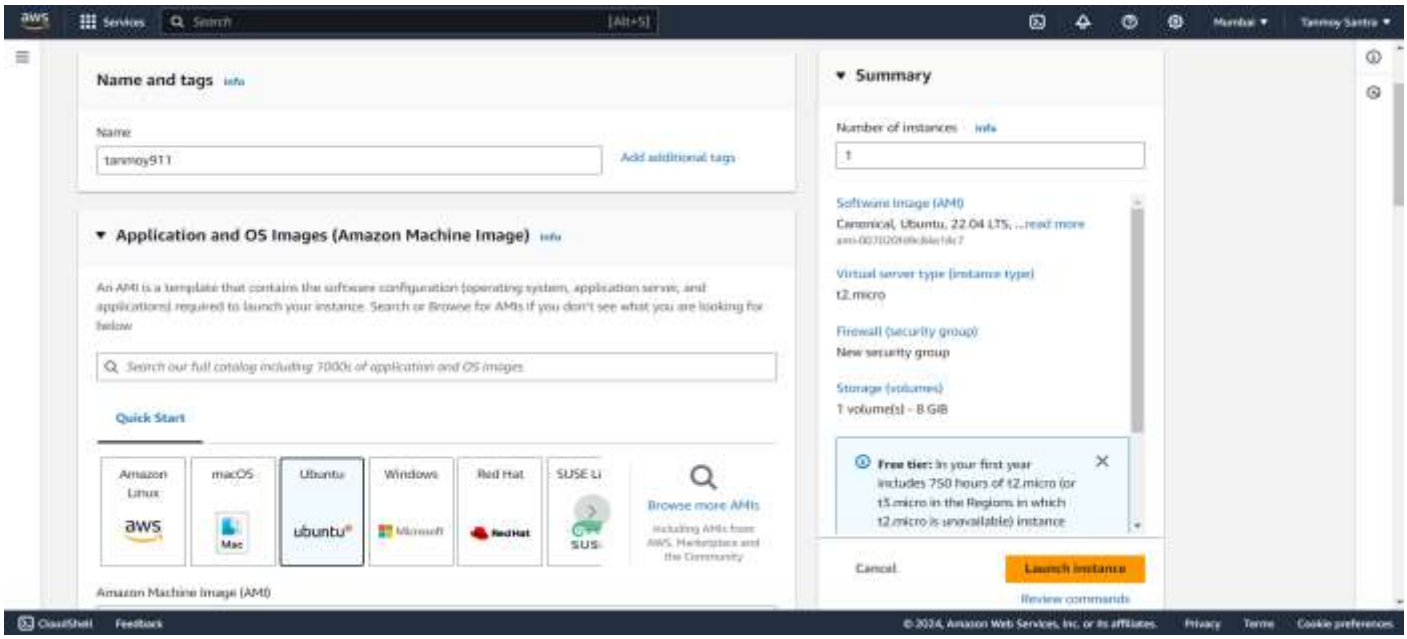
STEP 1- Select EC2 option.



STEP 2- Click on Launch Instance.

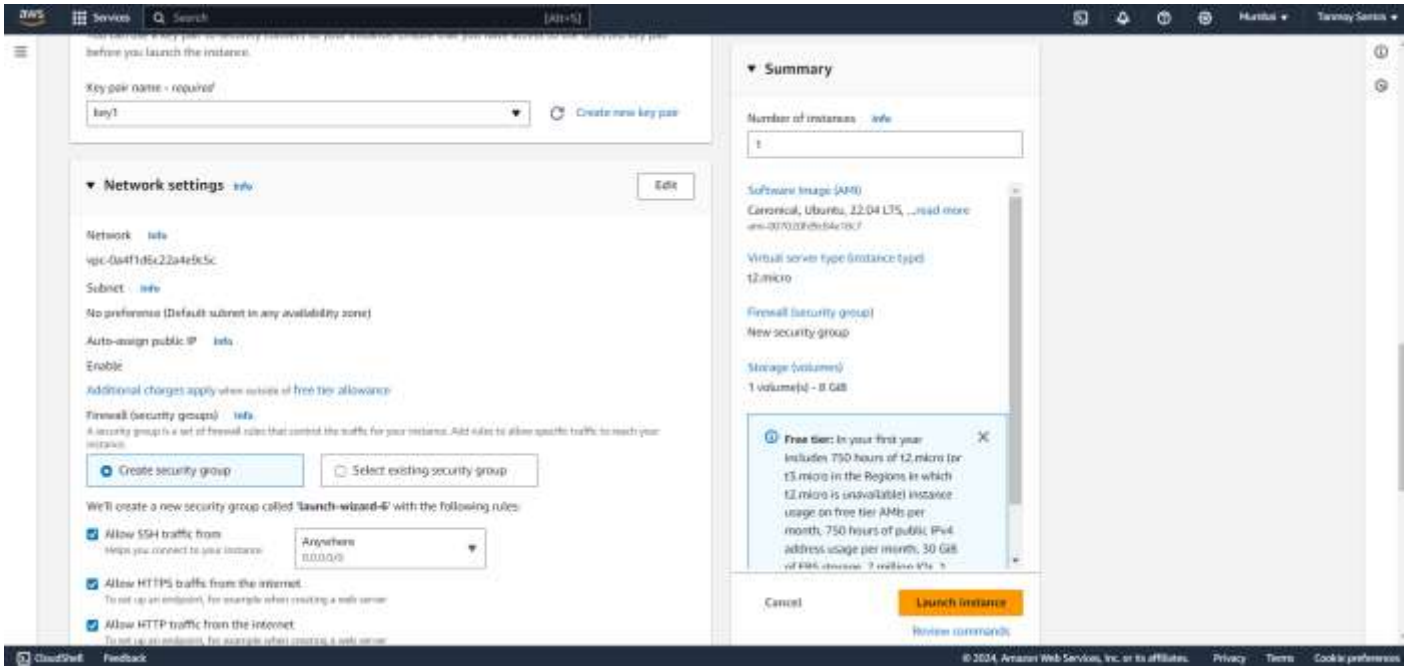


STEP 3- Give a unique name to the instance and select Ubuntu.

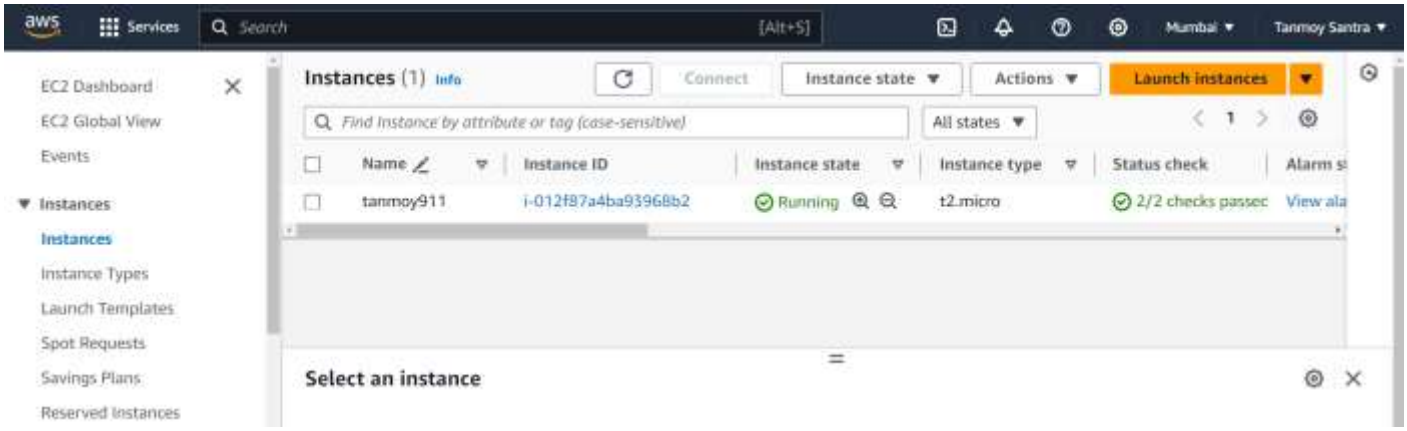


STEP 4- Select the key from the list or create a new one.

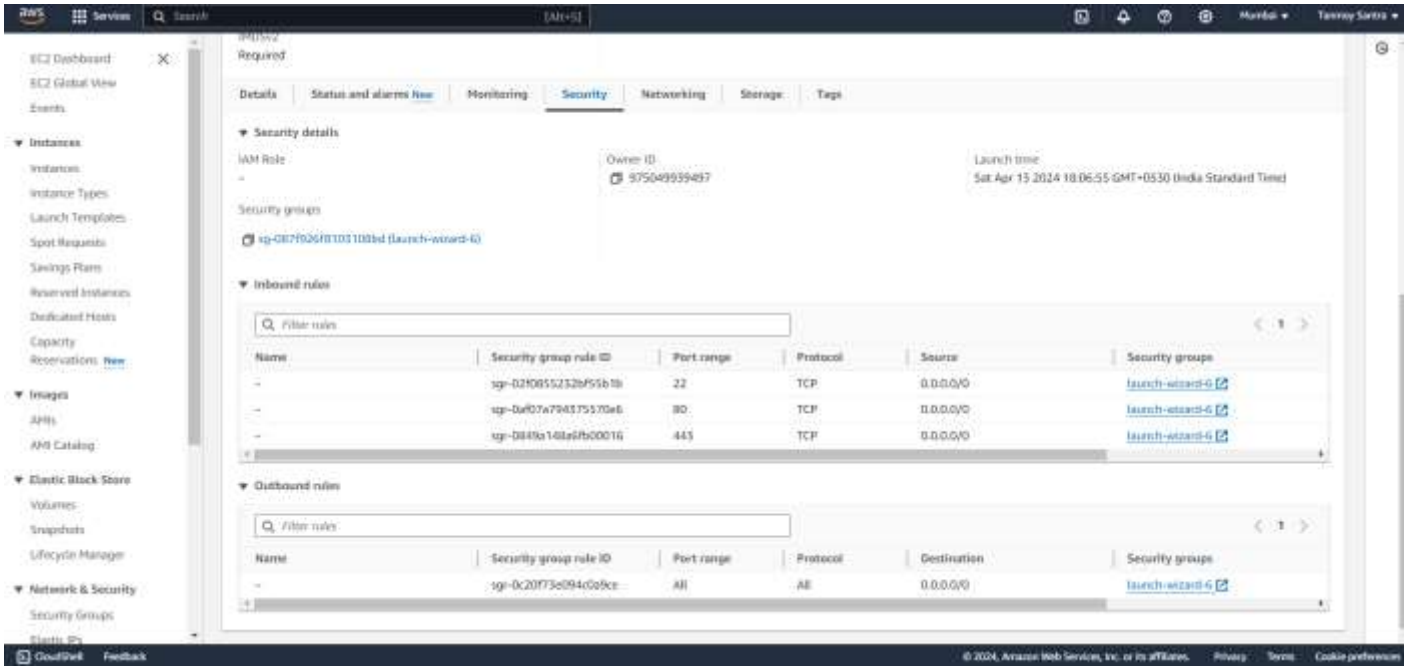
STEP 5- Check all the 3 check boxes. Then click on Launch Instance.



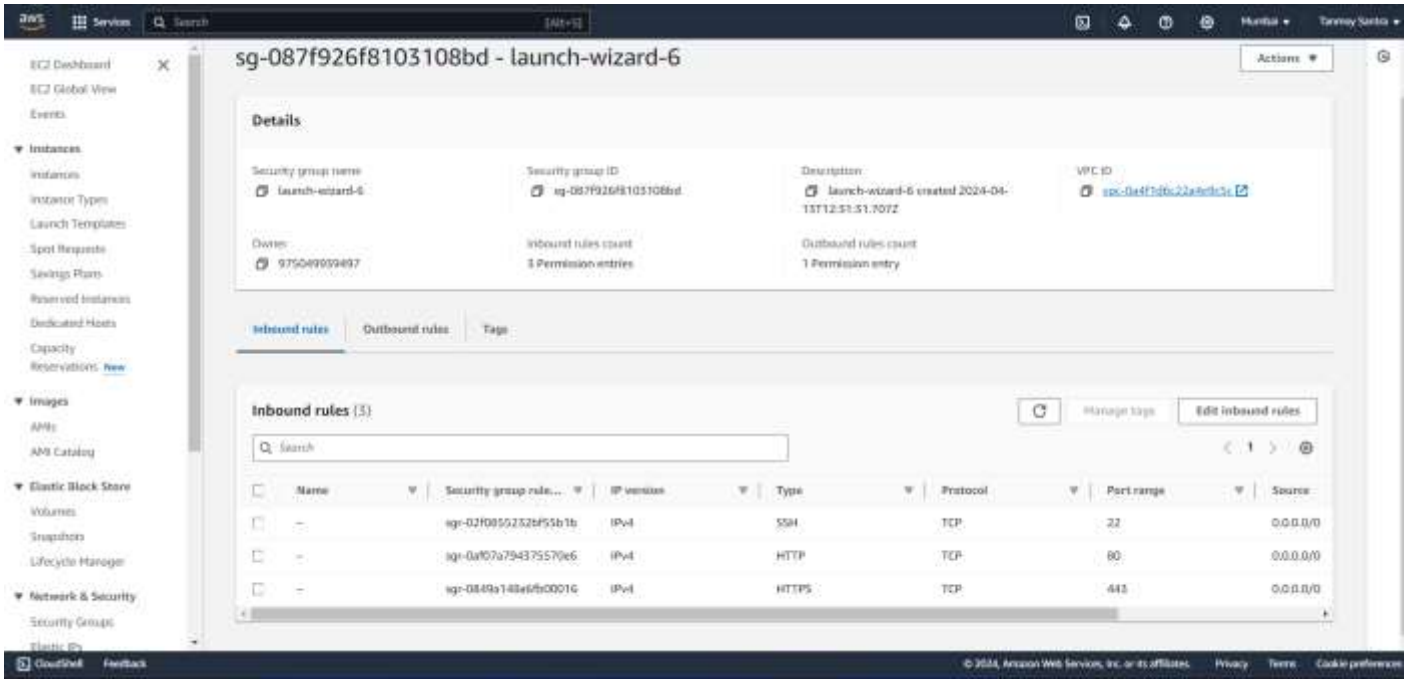
STEP 6- Click on instance id to enter into the instance.



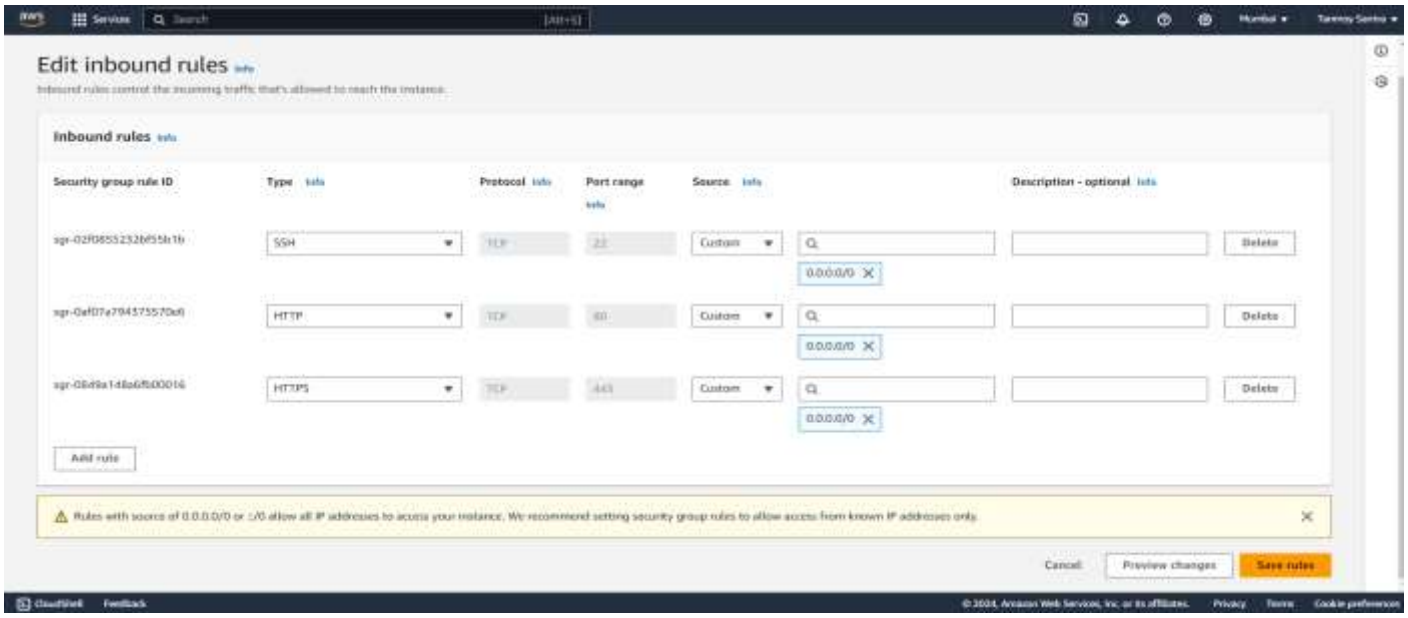
STEP 7- Select the Security option & Click on the security group ID.



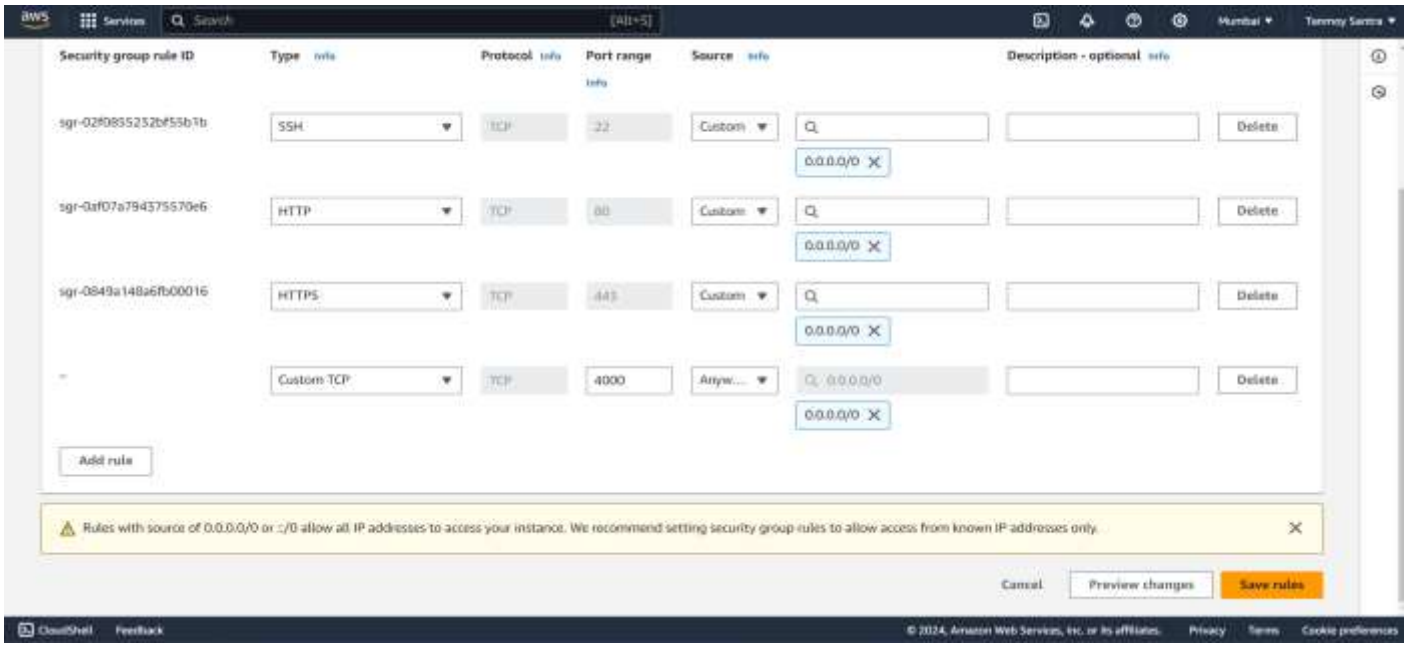
STEP 8-Click on Edit Inbound Rules.



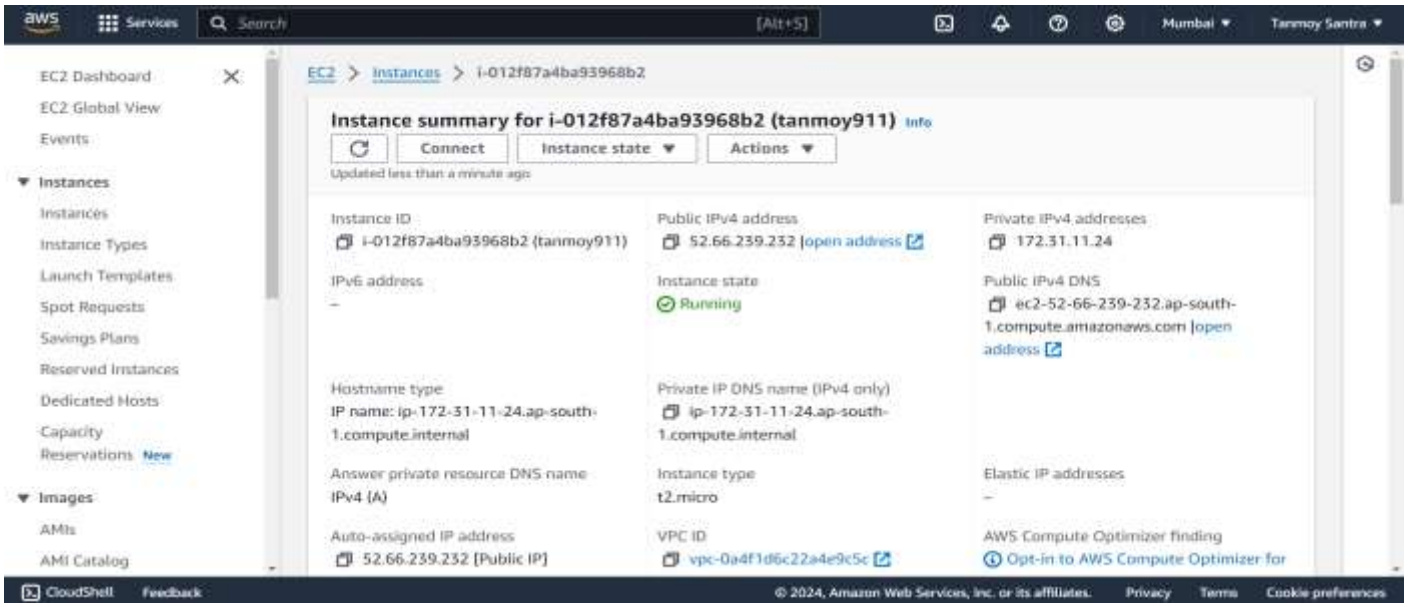
STEP 9- Click on Add Rules.



STEP 10- Give the port no. 4000, in source info give 0.0.0.0/0. Then click on Save Rules.



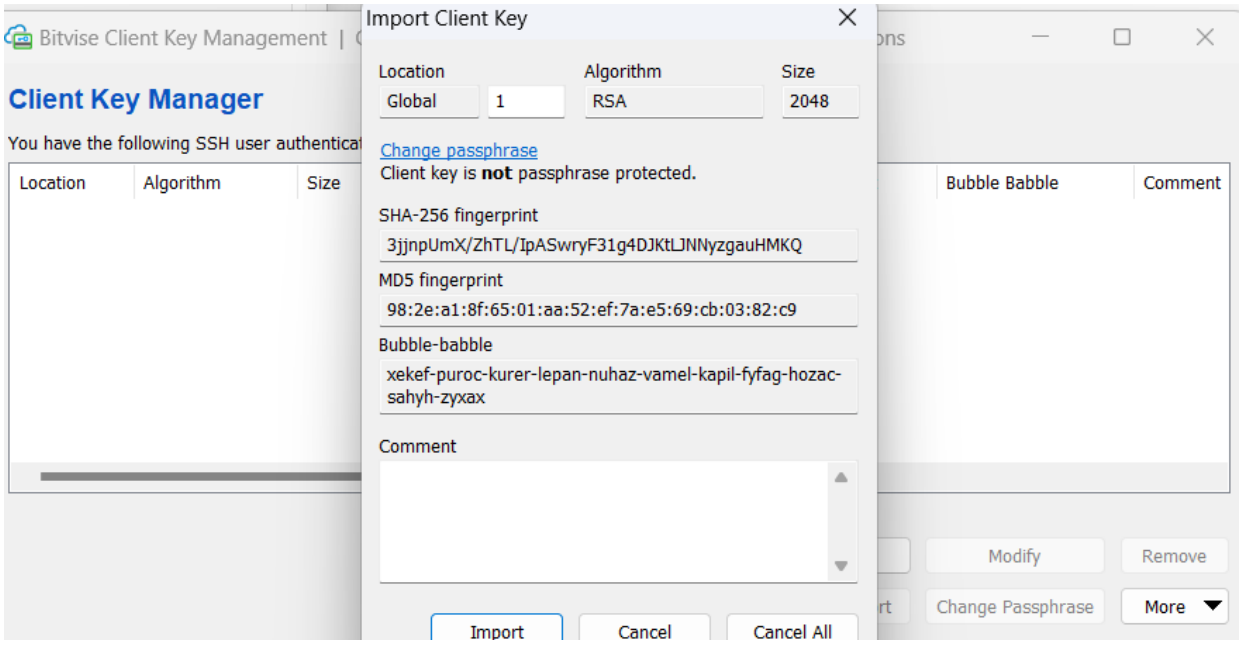
STEP 11- Go back into the instance and copy the Public IPv4 Address.



STEP 12- Open Bitvise SSH Client, Paste the address under the host tab. Under the Authentication tab, give the username as ubuntu, Initial method as publickey. Then click on Client Key Manager.

STEP 13- Remove any previously selected key if any, then click on Import.

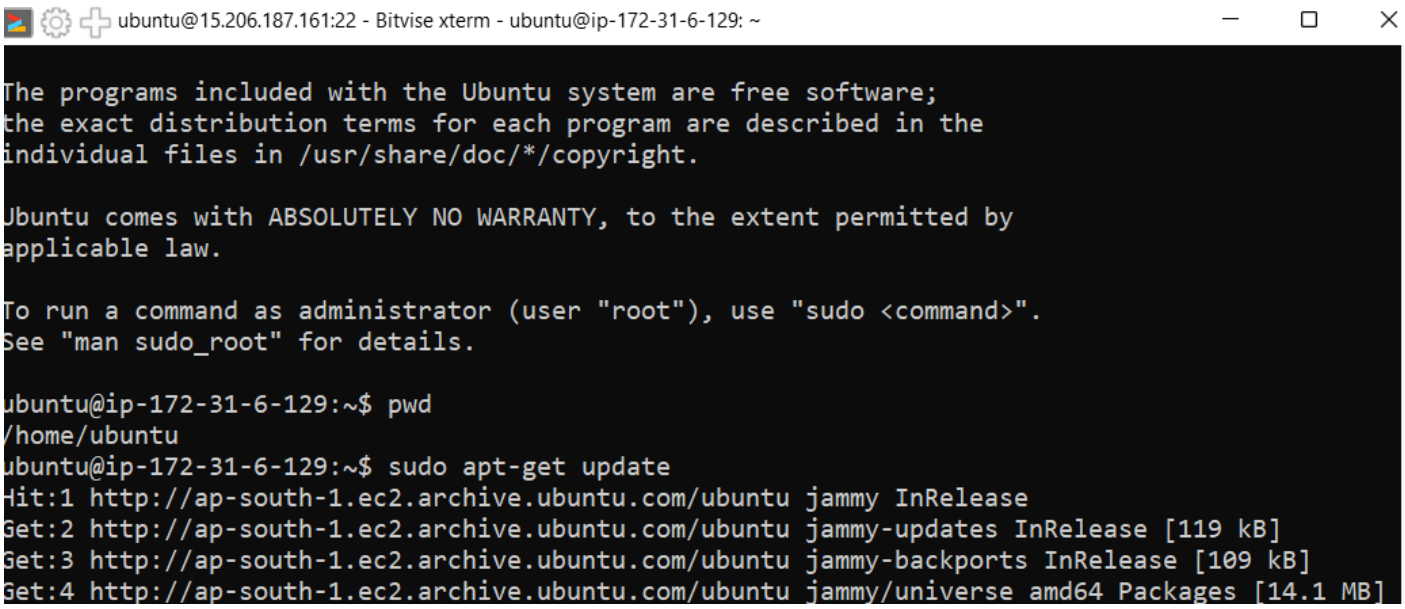
STEP 14- Select the key using which instance was created. Then close the window.

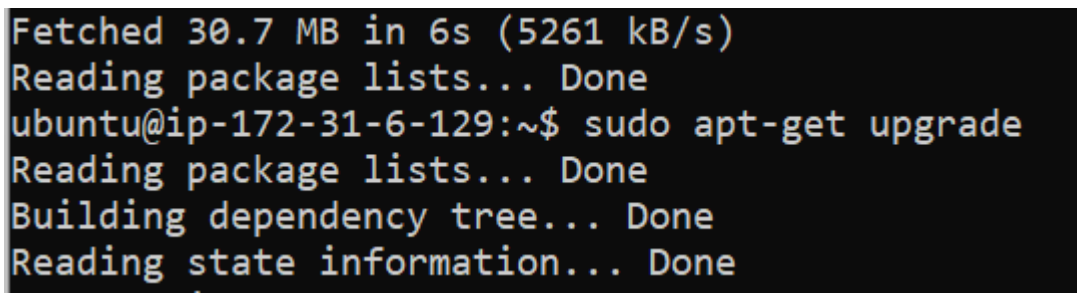


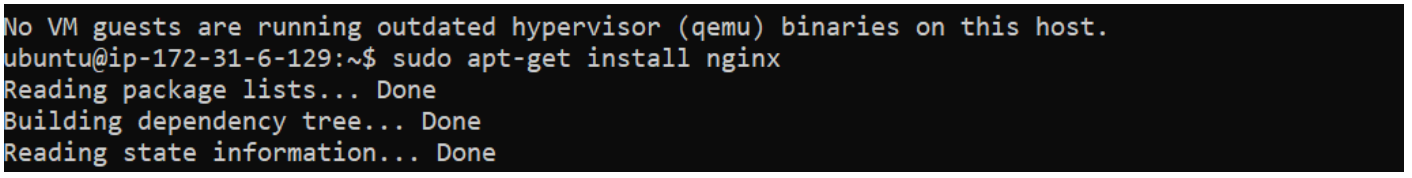
STEP 15- Click on Login.

STEP 16- Open a new terminal by clicking on New Terminal Console.

STEP 17- In the console type the following commands in sequential order:







```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-6-129:~$ nginx -v
nginx version: nginx/1.18.0 (Ubuntu)
```

```
2024-04-12 15:13:03 - Repository configured successfully. To install Node.js, run: ap
odejs -y
ubuntu@ip-172-31-6-129:~$ sudo apt install nodejs
Reading package lists... Done
```

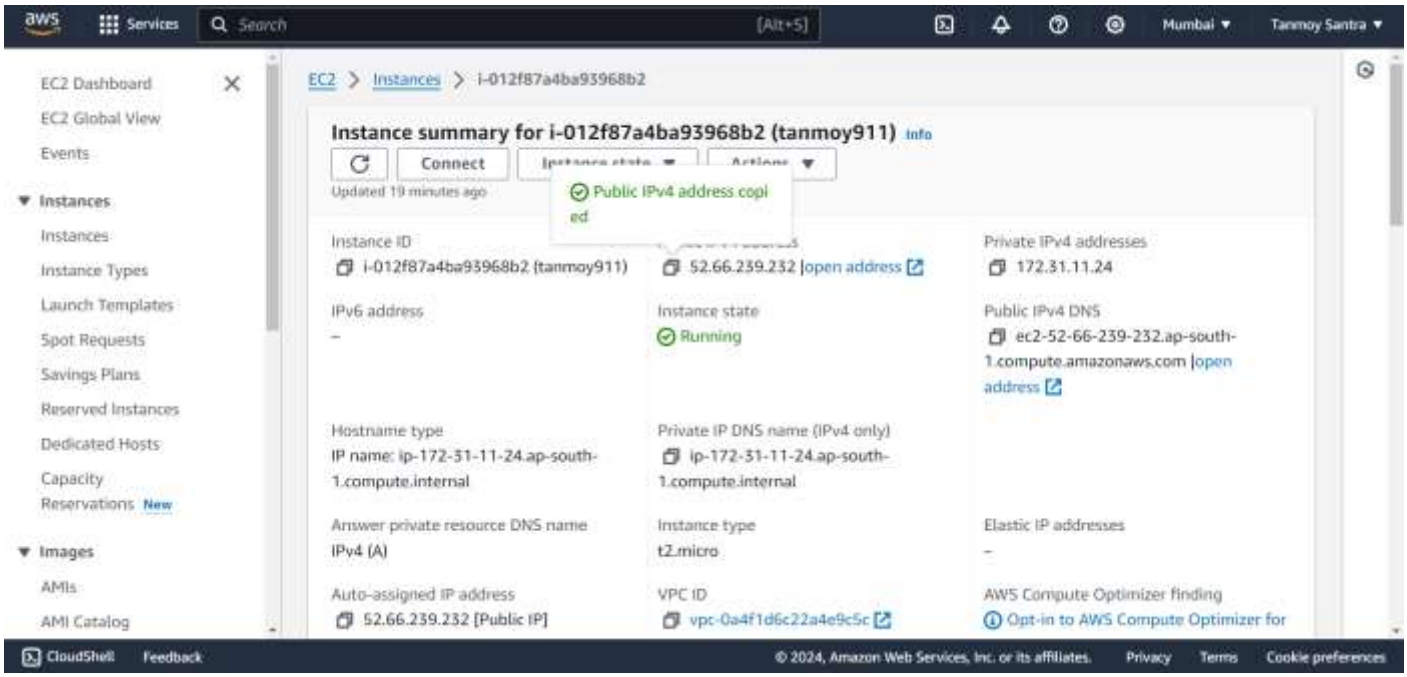
```
ubuntu@ip-172-31-6-129:~$ node -v
v16.20.2
```

```
ubuntu@ip-172-31-6-129:~$ git clone https://github.com/Tanmoy-Santra/awsass2.git
Cloning into 'awsass2'...
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (7/7), done.
remote: Total 7 (delta 0), reused 7 (delta 0), pack-reused 0
Receiving objects: 100% (7/7), 48.21 KiB | 5.36 MiB/s, done.
ubuntu@ip-172-31-6-129:~$ cd awsass2
ubuntu@ip-172-31-6-129:~/awsass2$ ls
'New Text Document.txt'   index.js   package-lock.json   package.json
ubuntu@ip-172-31-6-129:~/awsass2$
```

```
ubuntu@ip-172-31-6-129:~/awsass2$ npm install
npm WARN deprecated uuid@3.4.0: Please upgrade  to version 7 or higher.  Olde
ee https://v8.dev/blog/math-random for details.

added 258 packages, and audited 259 packages in 10s

18 packages are looking for funding
  run `npm fund` for details

12 vulnerabilities (10 moderate, 2 critical)

To address all issues, run:
  npm audit fix

Run `npm audit` for details.
npm notice
npm notice New major version of npm available! 8.19.4 -> 10.5.2
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.5.2
npm notice Run npm install -g npm@10.5.2 to update!
npm notice
```

```
npm notice Run npm install -g npm@10.5.2 to update!
npm notice
ubuntu@ip-172-31-6-129:~/awsass2$ node index.js
Started server
```

STEP 18- From the Public IPv4 Address click Open Address.



STEP 19- Nginx window will open. Now add :4000 at the end of the IPv4 Address.

STEP 20- The Nodejs file content will be visible.