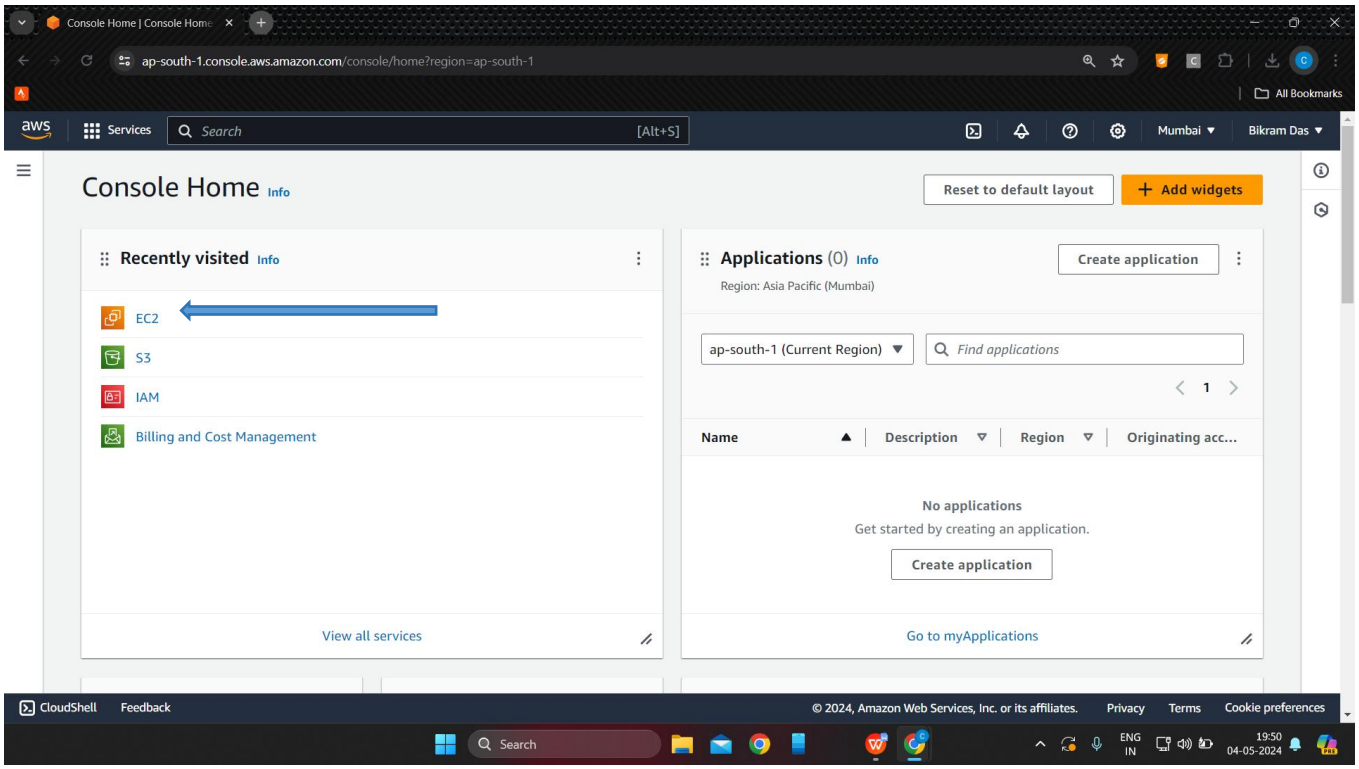
ASSIGNMENT 9

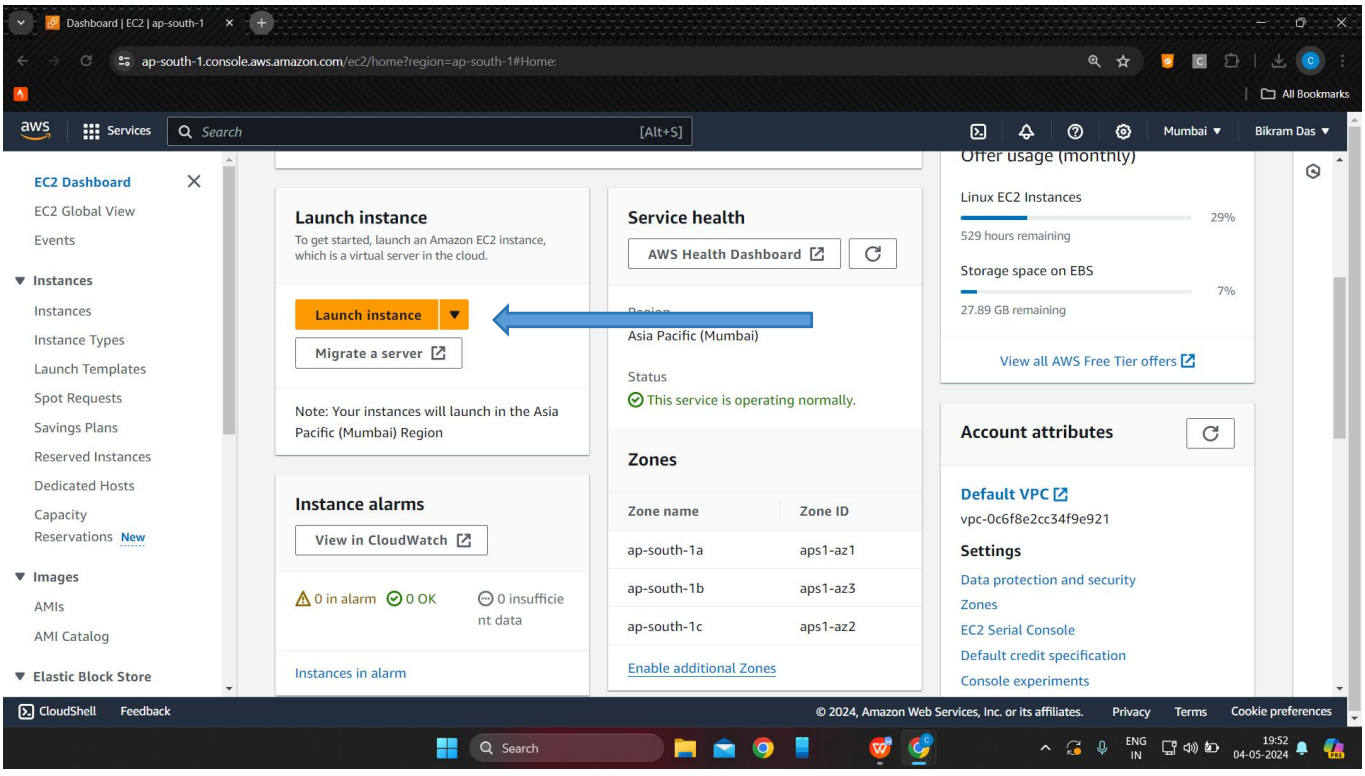
PROBLEM STATEMENT -> Deploy a project from GitHub to EC2.

- **To Deploy the project --->**

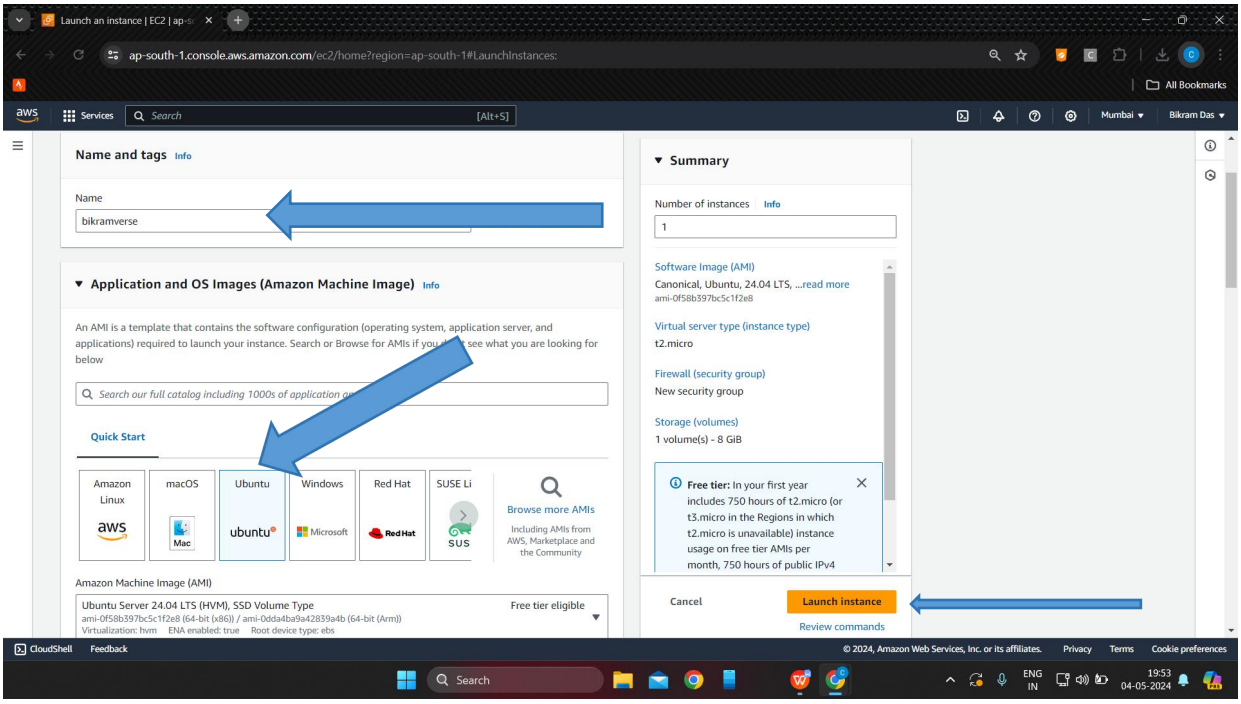
STEP 1-> Select EC2 option.



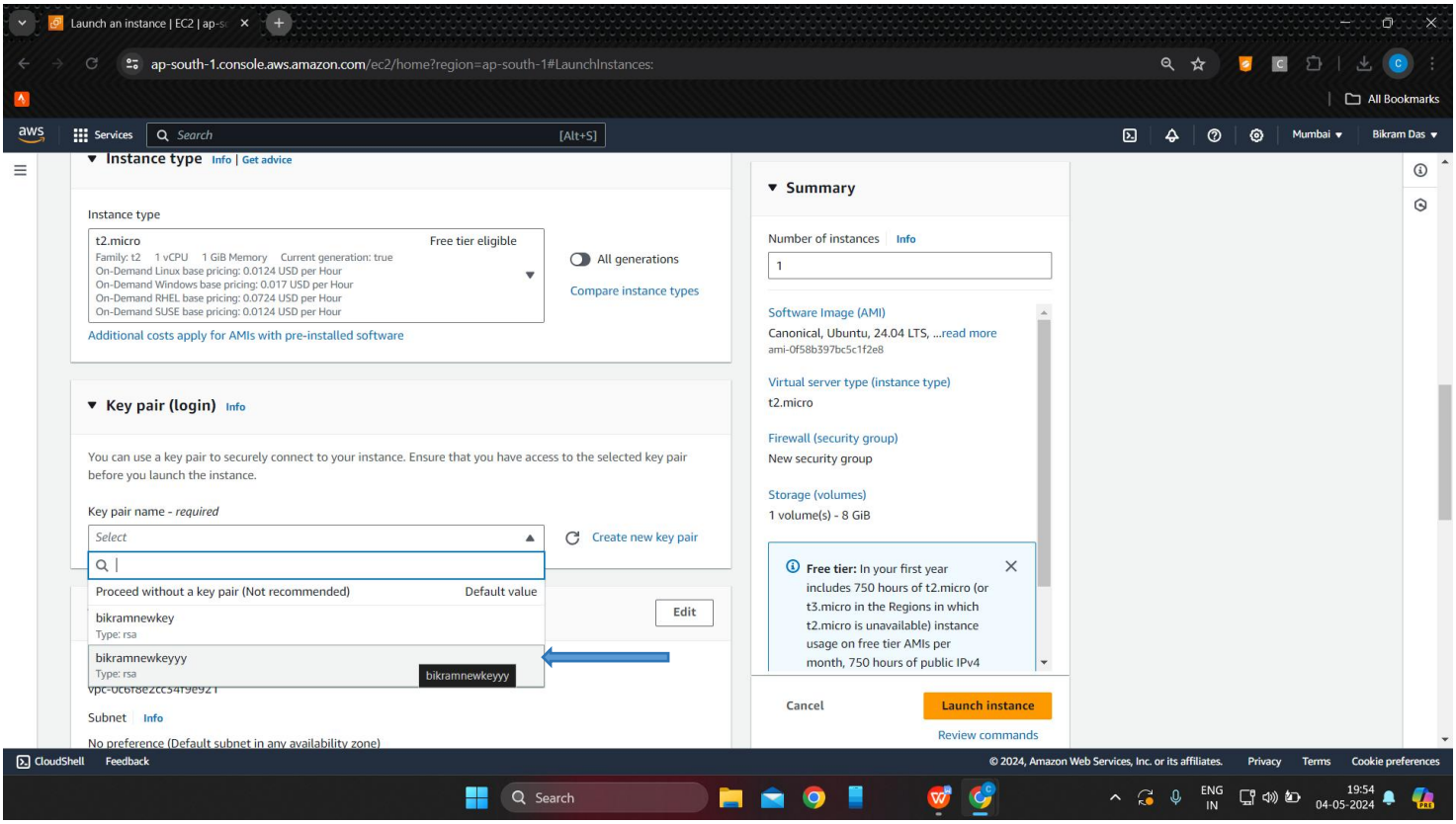
STEP 2-> Click on Launch Instance.



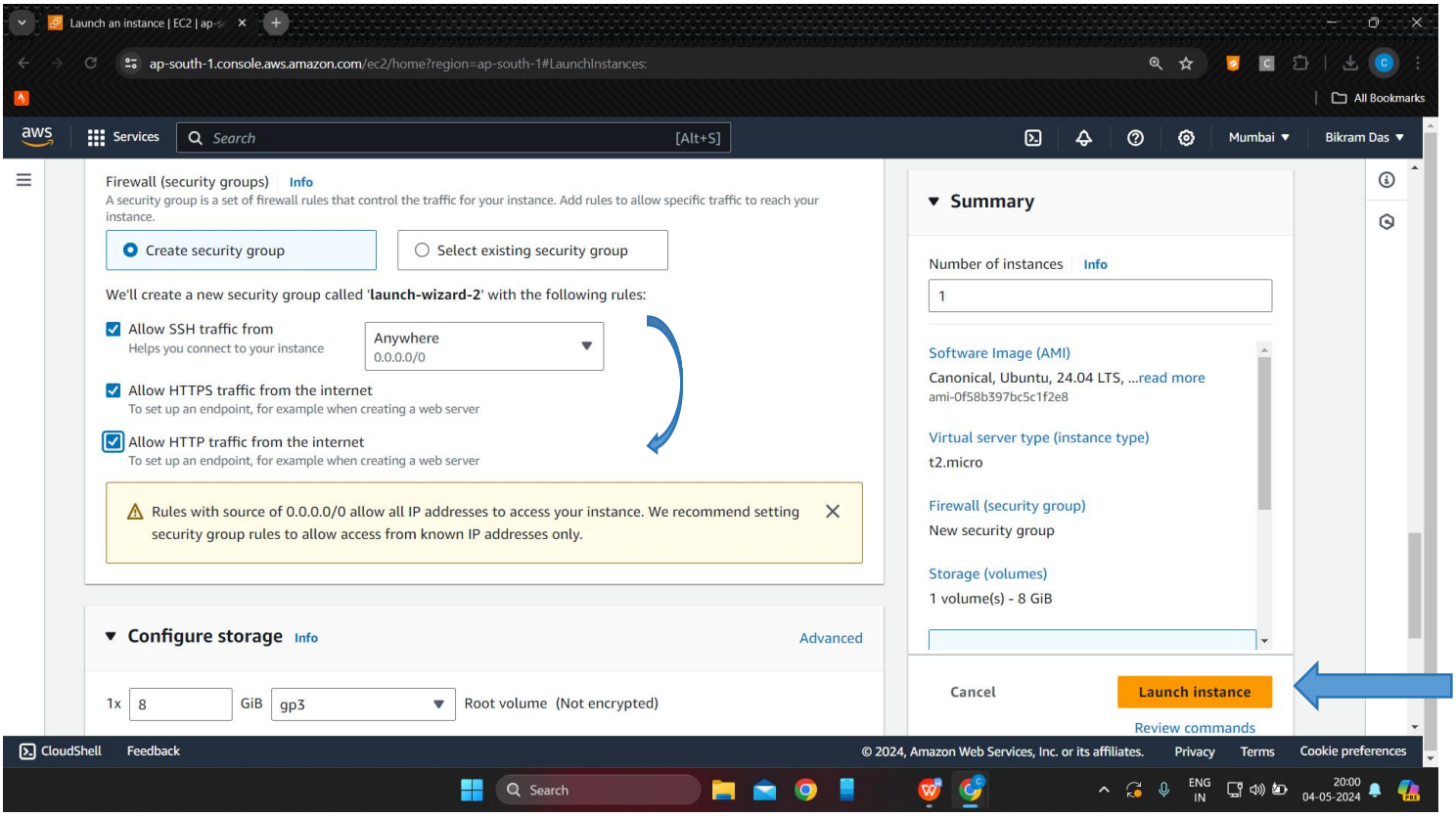
STEP 3-> Give a unique name to the instance and select Ubuntu



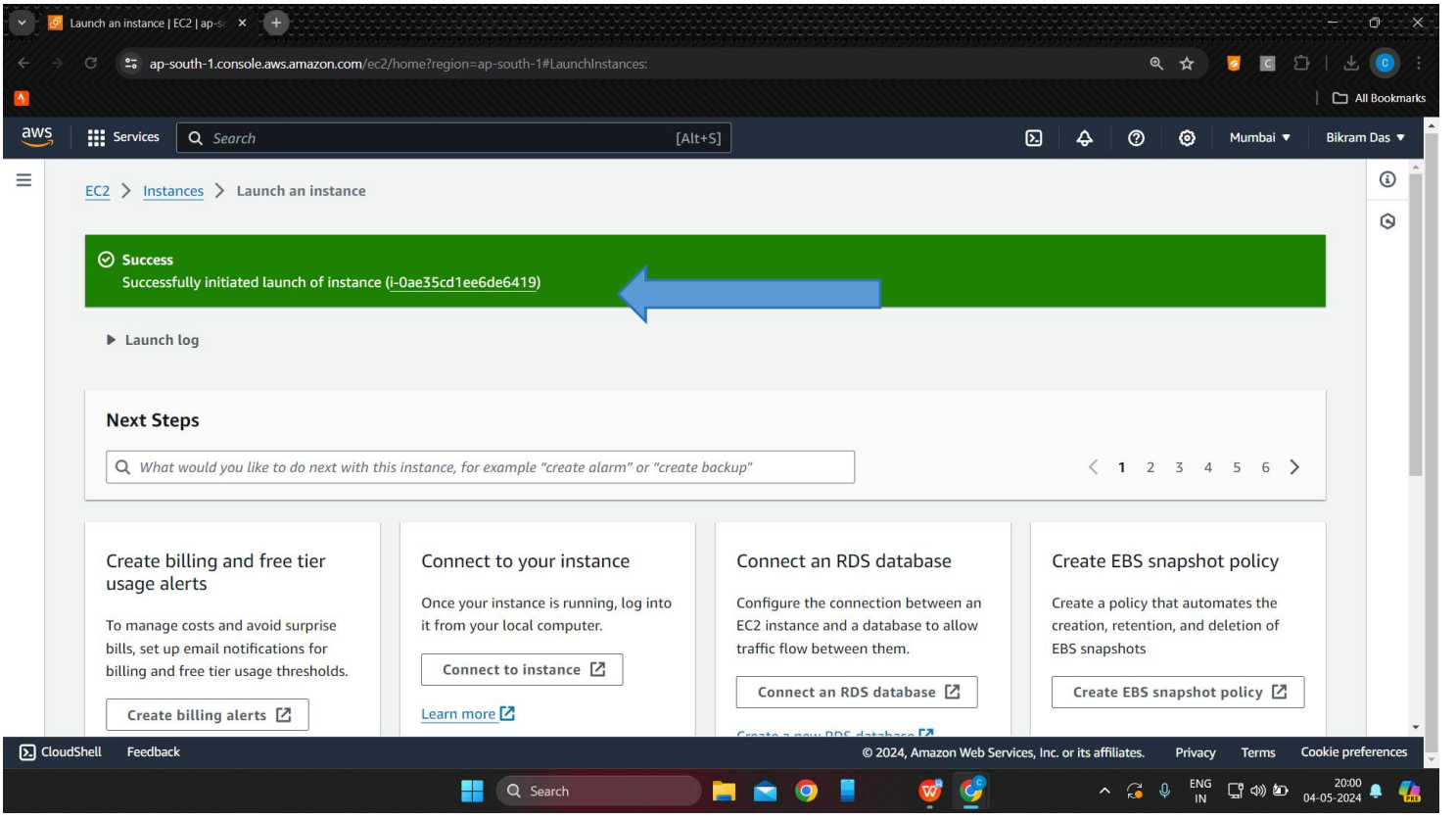
STEP 4-> Select the key from the list or create a new one



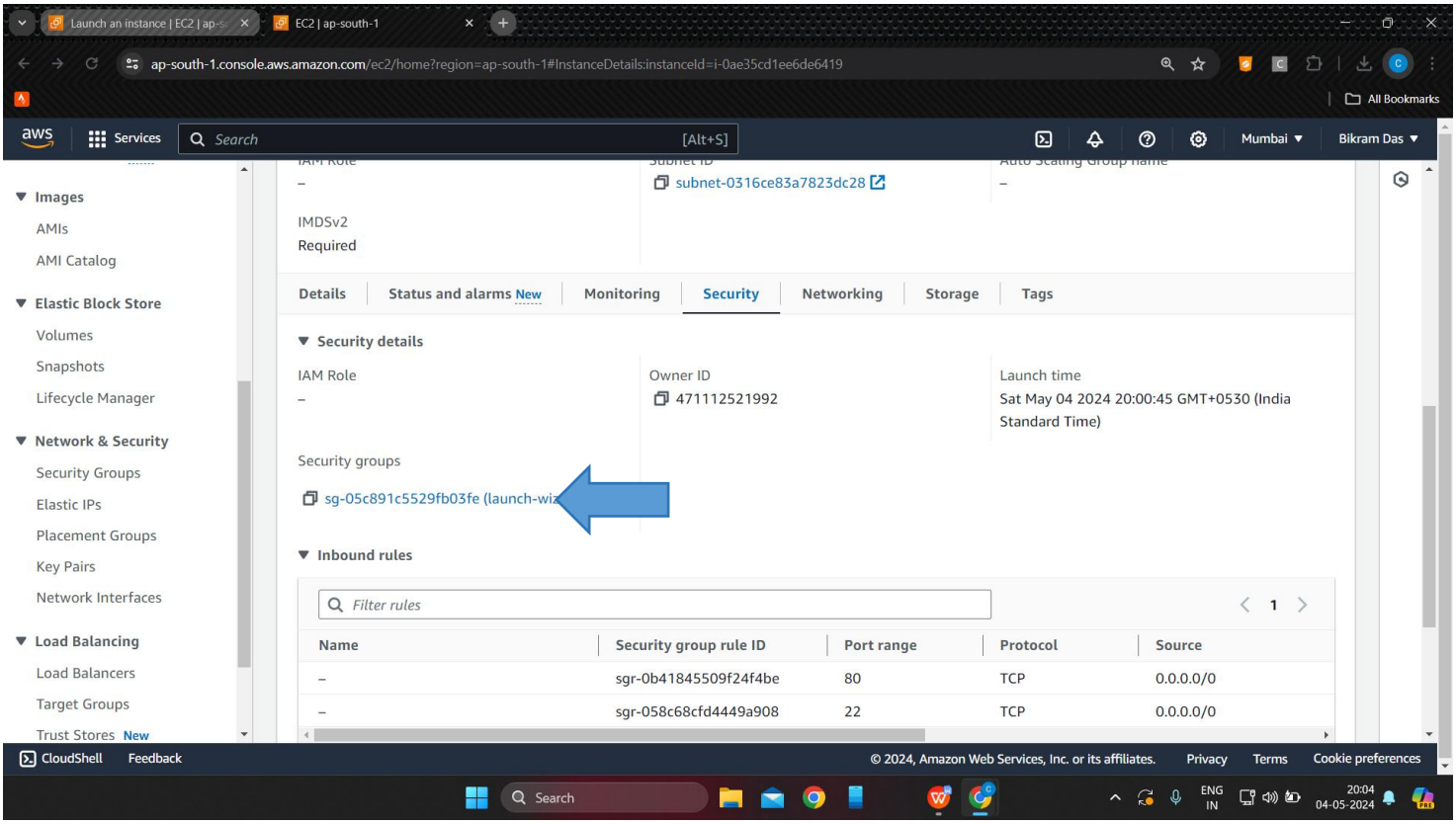
STEP 5-> Check all the 3 check boxes under the Network Settings. Then click on Launch Instance.



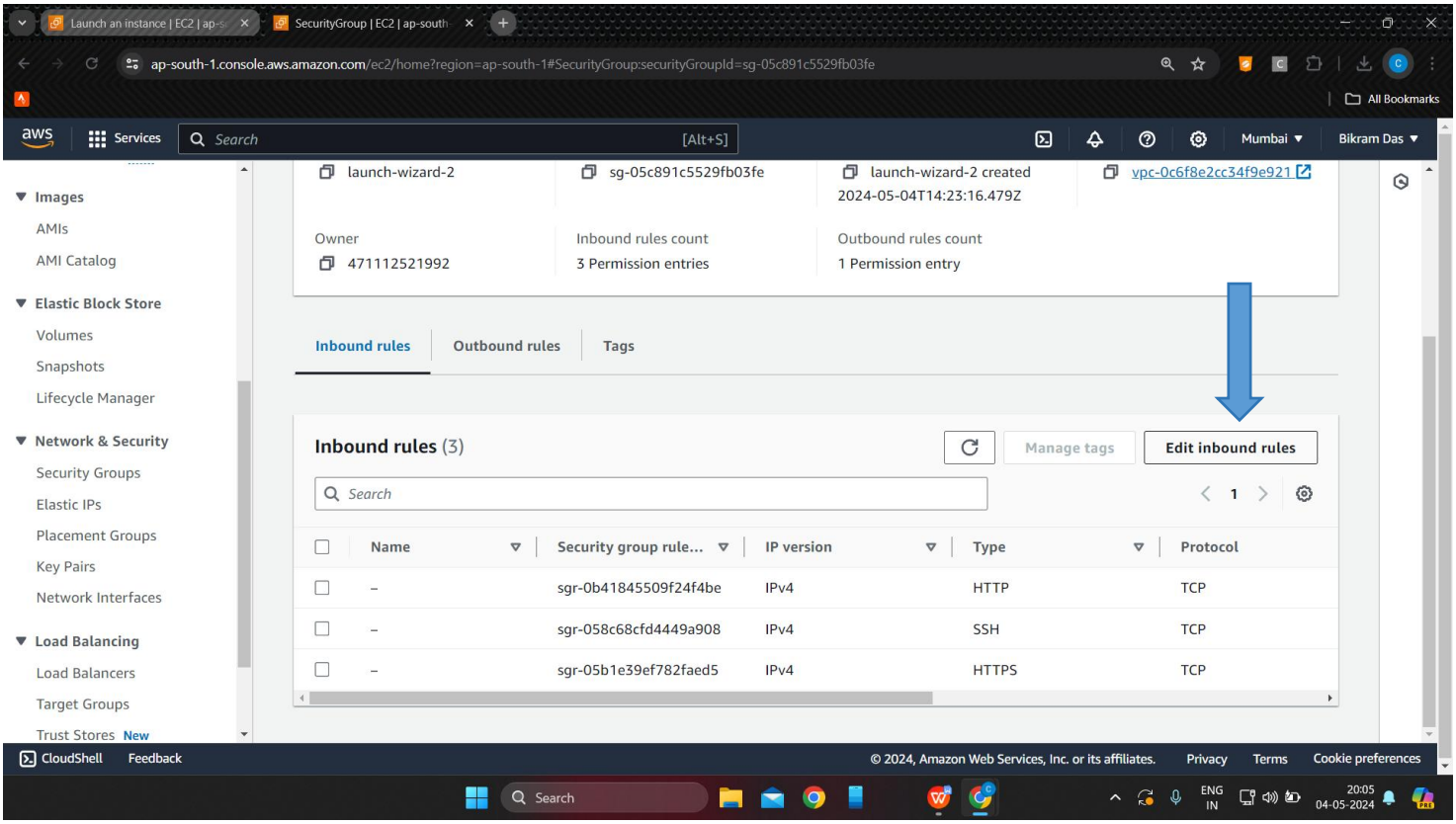
STEP 6-> Click on instance id to enter into the instance.



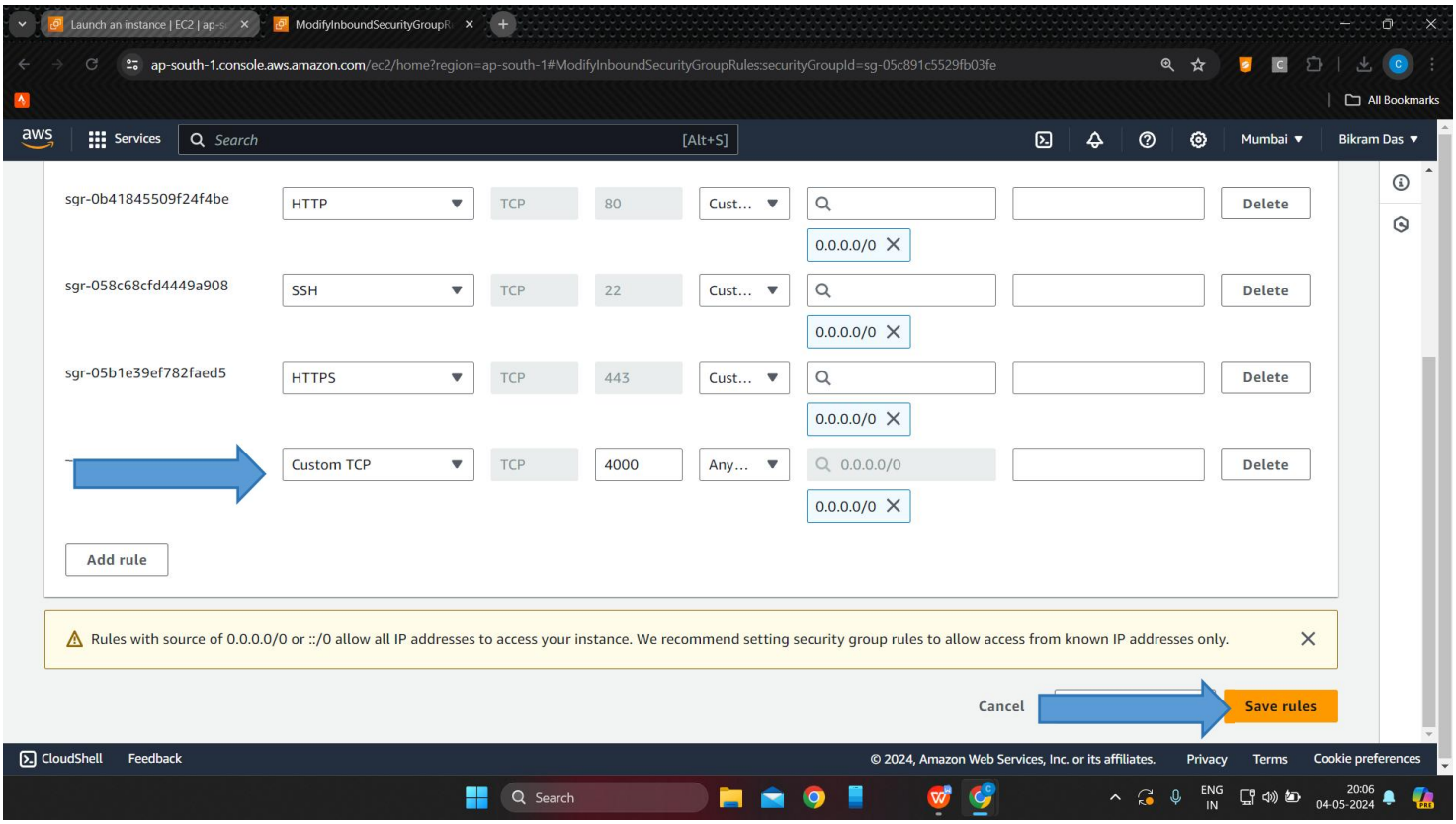
STEP 7-> Select the Security option & Click on the security groupID.



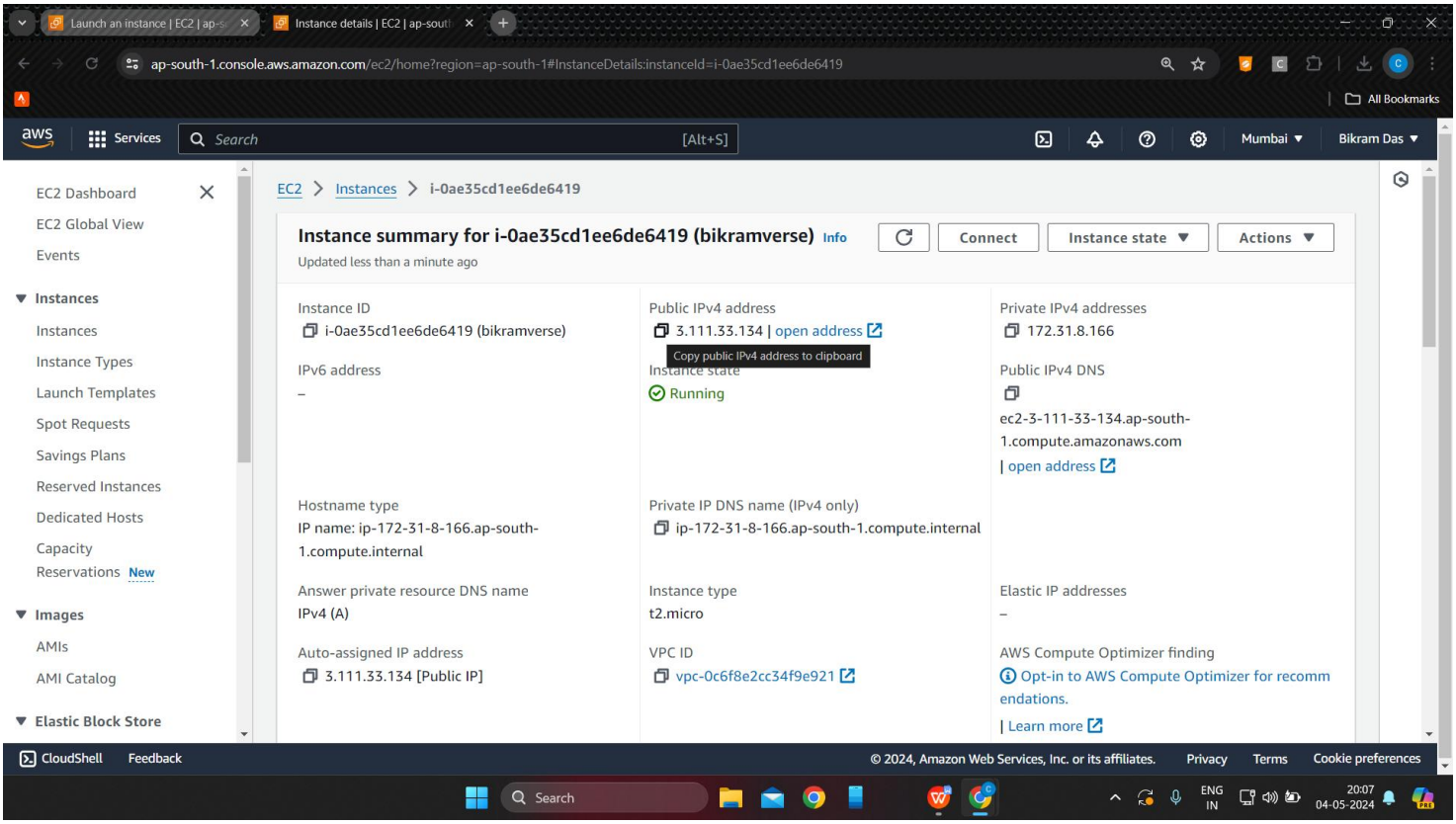
STEP 8->Click on Edit Inbound Rules



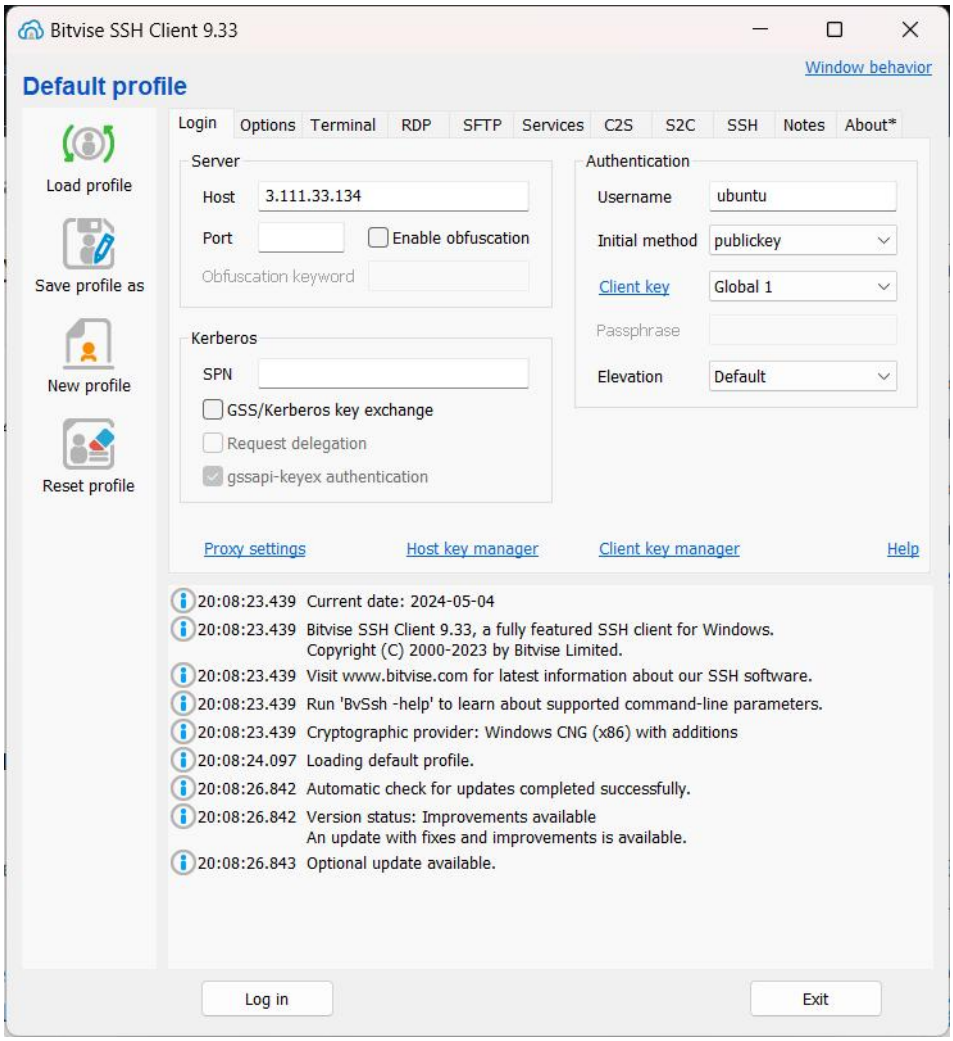
STEP 9-> Click on Add Rules button after which give the port no. 4000, insource info give 0.0.0.0/0. Then click on Save Rules.



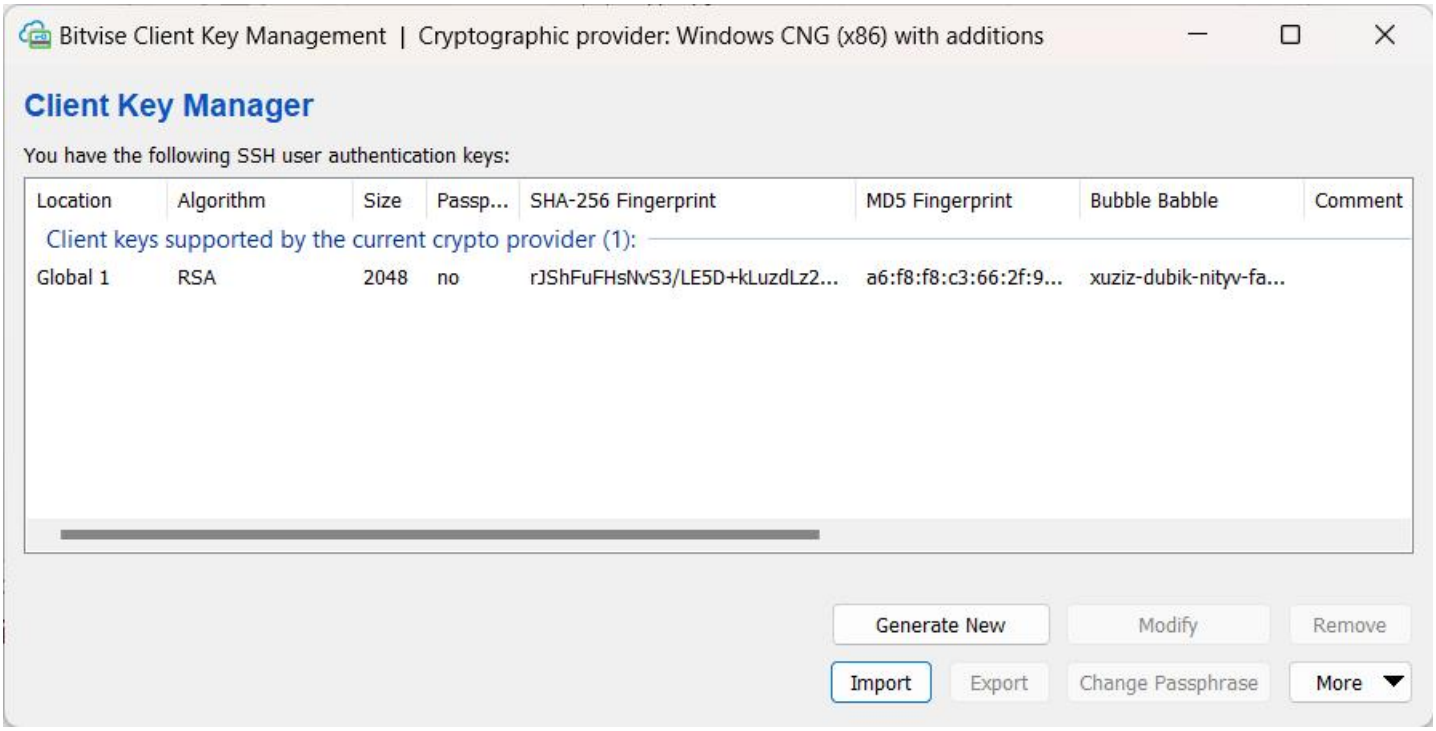
STEP 10-> Go back into the instance and copy the Public IPv4 Address.



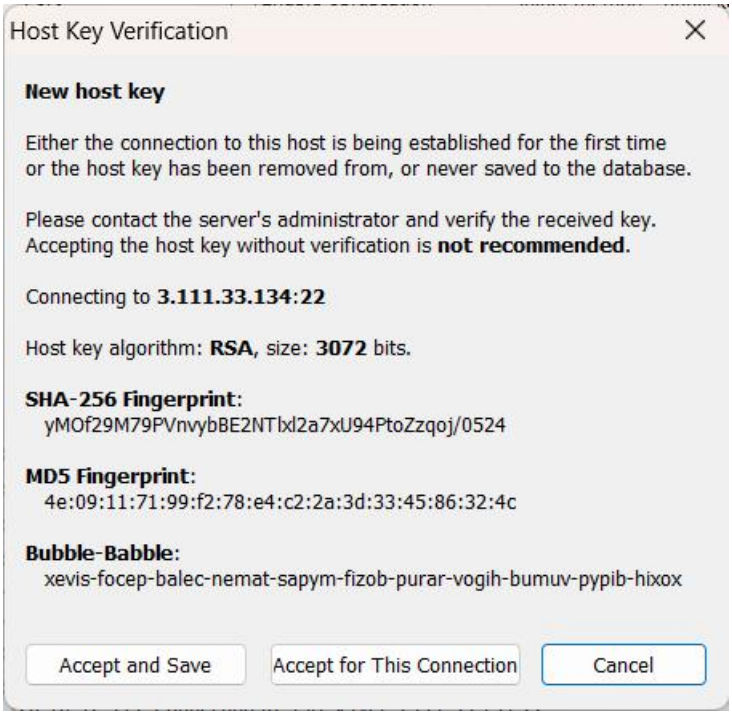
STEP 11-> Paste the address under the host tab. Under the Authenticationtab, give the username as ubuntu, Initial method as publickey. Then clickonClientKey Manager.



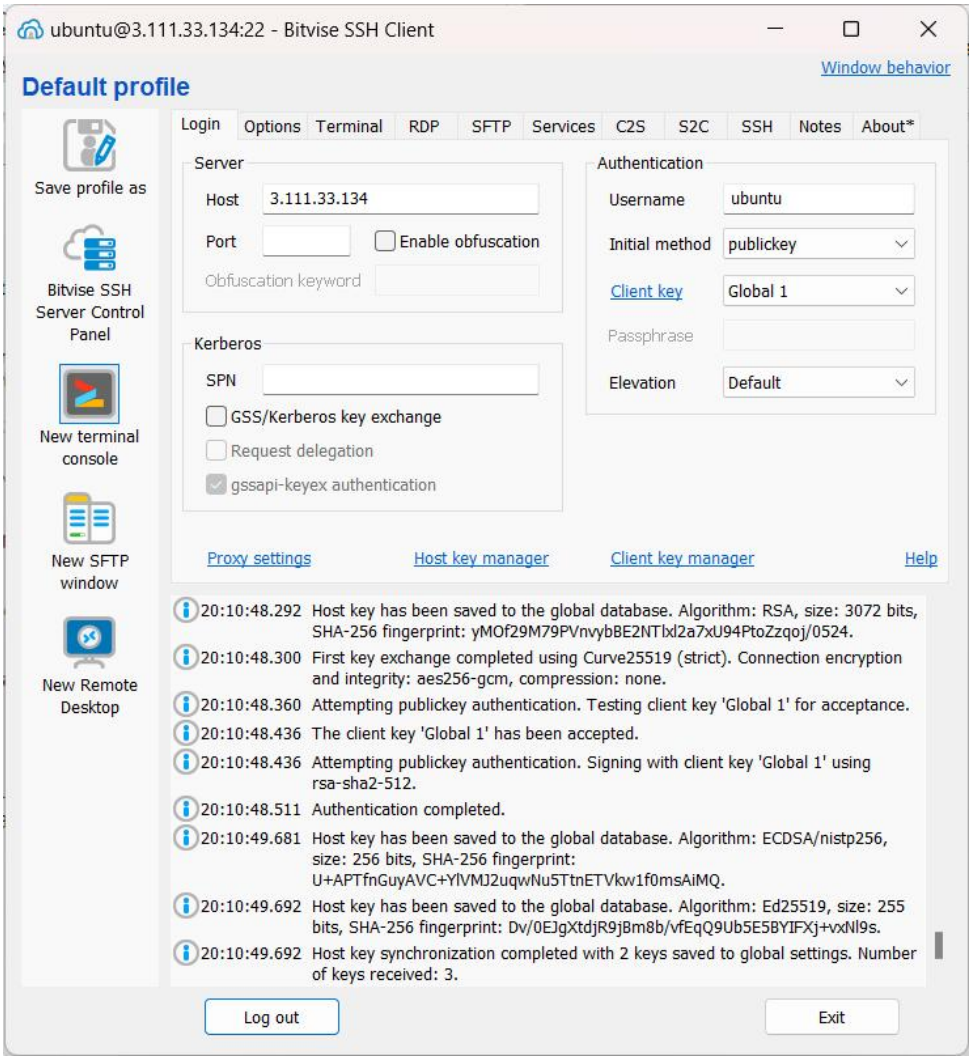
STEP 12-> Remove any previously selected key if any, the click onImport. Select the key using which instance was created. Then close the window.



STEP 13-> Click on Login after that in host key verification click accept and save.



STEP 14-> Open a new terminal by clicking on New Terminal Console.

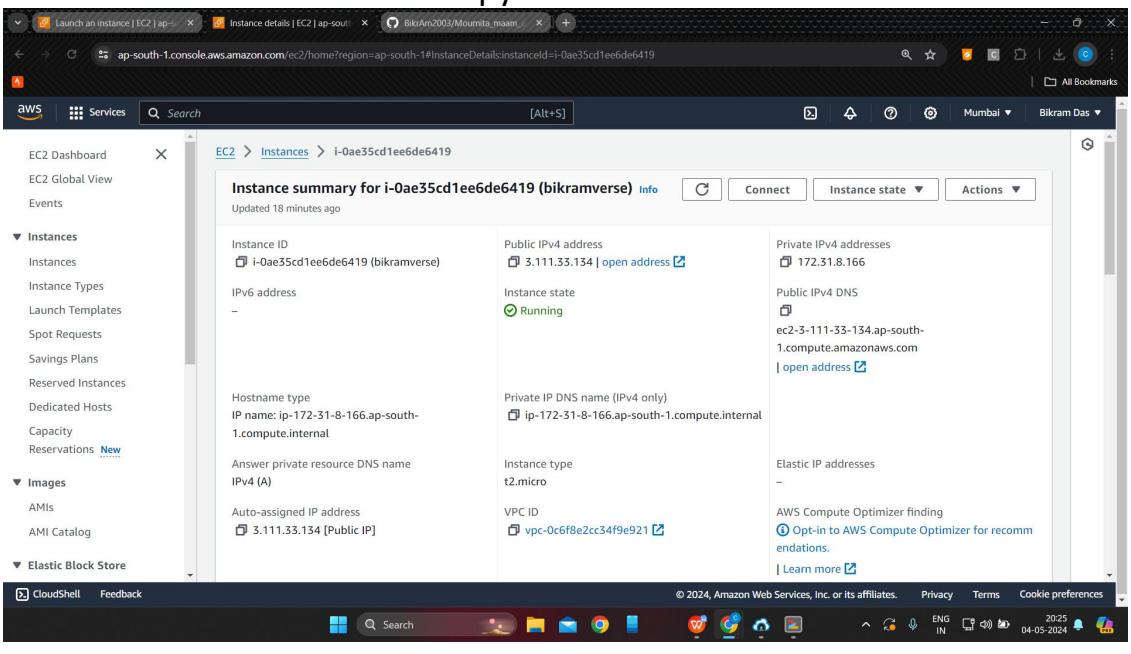


STEP 15-> In the console type the following commands in sequential order:

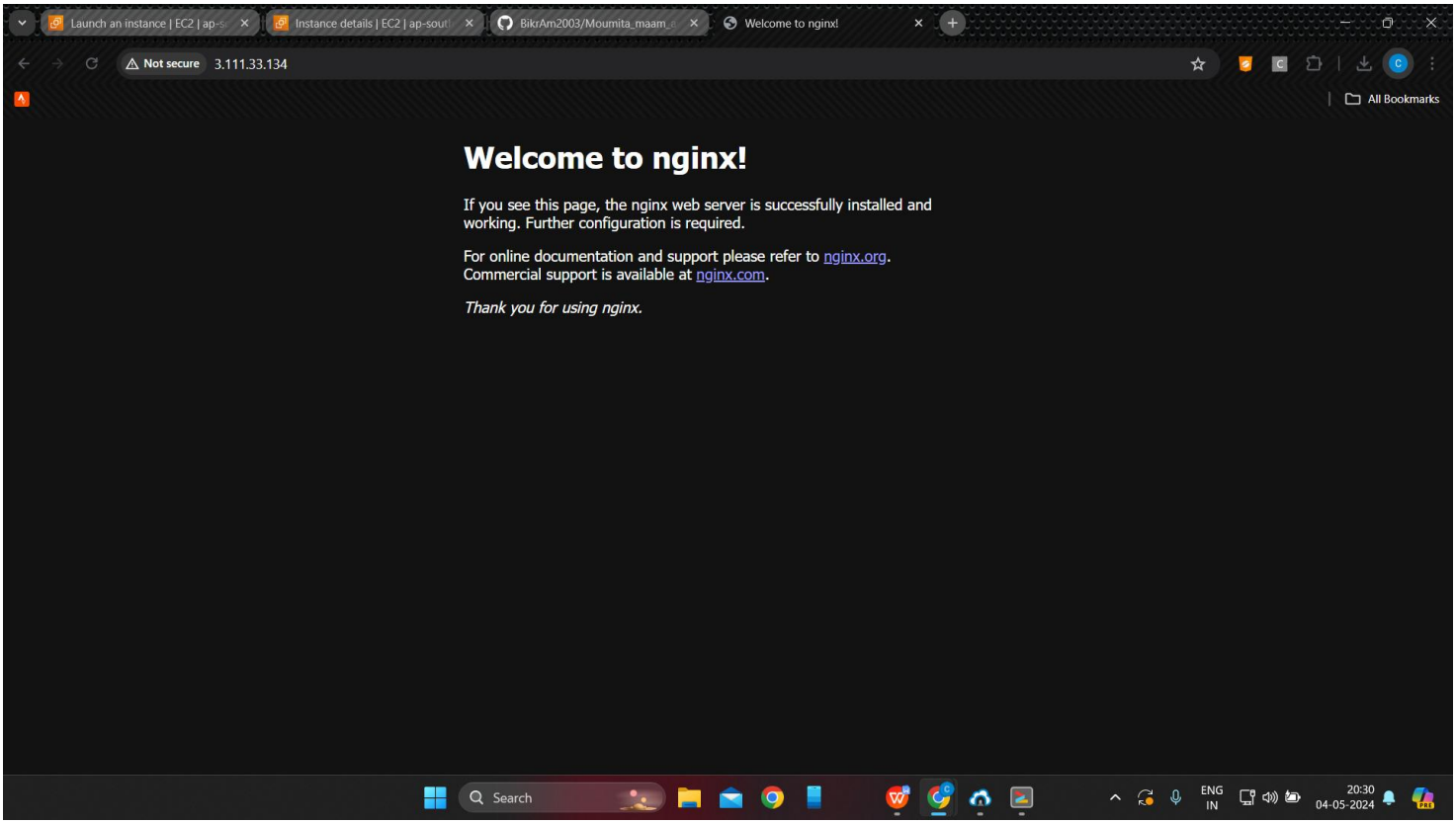
```
ubuntu@13.51.200.9:22 - Bitvise xterm - ubuntu@ip-172-31-40-254: ~
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-40-254:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-40-254:~$ sudo apt-get update
ubuntu@ip-172-31-40-254:~$ sudo apt-get upgrade
ubuntu@ip-172-31-40-254:~$ sudo apt-get install nginx
ubuntu@ip-172-31-40-254:~$ nginx -v
nginx version: nginx/1.18.0 (Ubuntu)
ubuntu@ip-172-31-40-254:~$ curl -SL https://deb.nodesource.com/setup_16.x|sudo -E bash -
ubuntu@ip-172-31-40-254:~$ sudo apt install nodejs
ubuntu@ip-172-31-8-166:~$ git clone https://github.com/BikrAm2003/Moumita_maam_aws_repo.git
Cloning into 'Moumita_maam_aws_repo'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), done.
ubuntu@ip-172-31-8-166:~$ cd Moumita_maam_aws_repo
ubuntu@ip-172-31-8-166:~/Moumita_maam_aws_repo$ ls
'New Text Document.txt'   index.js   package.json
ubuntu@ip-172-31-8-166:~/Moumita_maam_aws_repo$ npm install
ubuntu@ip-172-31-8-166:~$ cd Moumita_maam_aws_repo
ubuntu@ip-172-31-8-166:~/Moumita_maam_aws_repo$ ls
'New Text Document.txt'   index.js   package.json
ubuntu@ip-172-31-8-166:~/Moumita_maam_aws_repo$ npm install
ubuntu@ip-172-31-8-166:~/Moumita_maam_aws_repo$ npm -v
8.19.4
ubuntu@ip-172-31-8-166:~/Moumita_maam_aws_repo$ node index.js
Started server
```

STEP 16-> From the Public IPv4 Address copy the Address and Paste it on a new tab.



STEP 17-> Nginx window will open. Now add :4000 at the end of the IPv4Address.



STEP 18-> The Nodejs file content will be visible.

Hello mckv