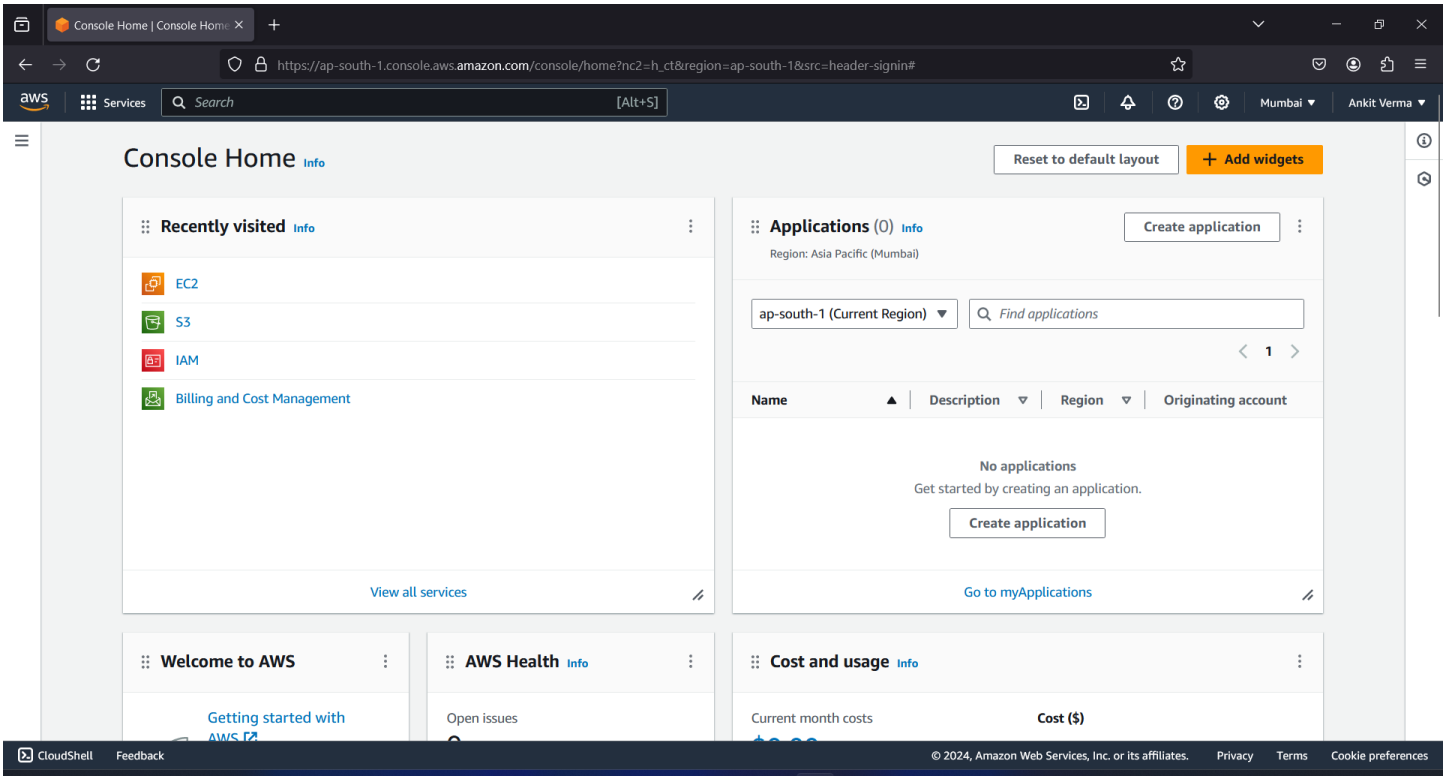
Assignment: 9

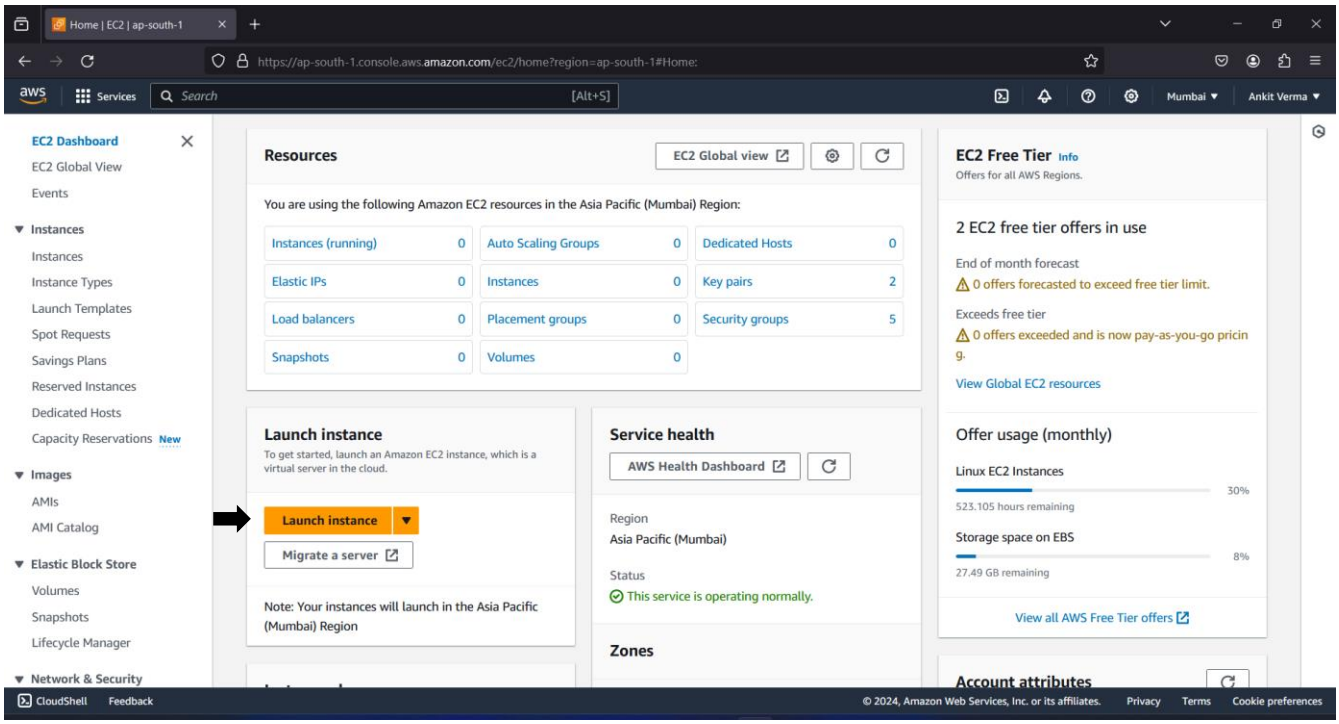
Problem Statement: Deploy a project from GitHub to EC2.

» The steps to deploy the project:-

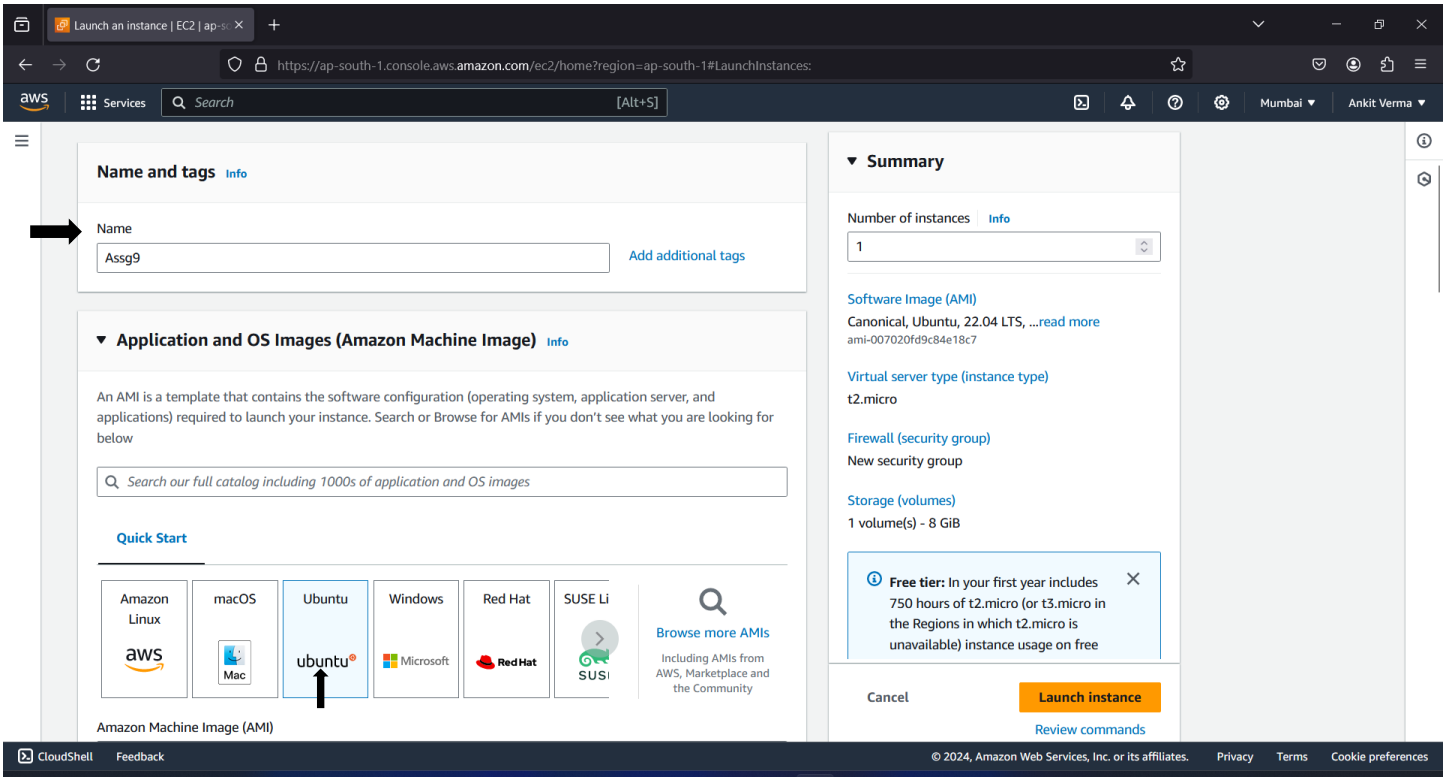
Step 1: Select EC2.



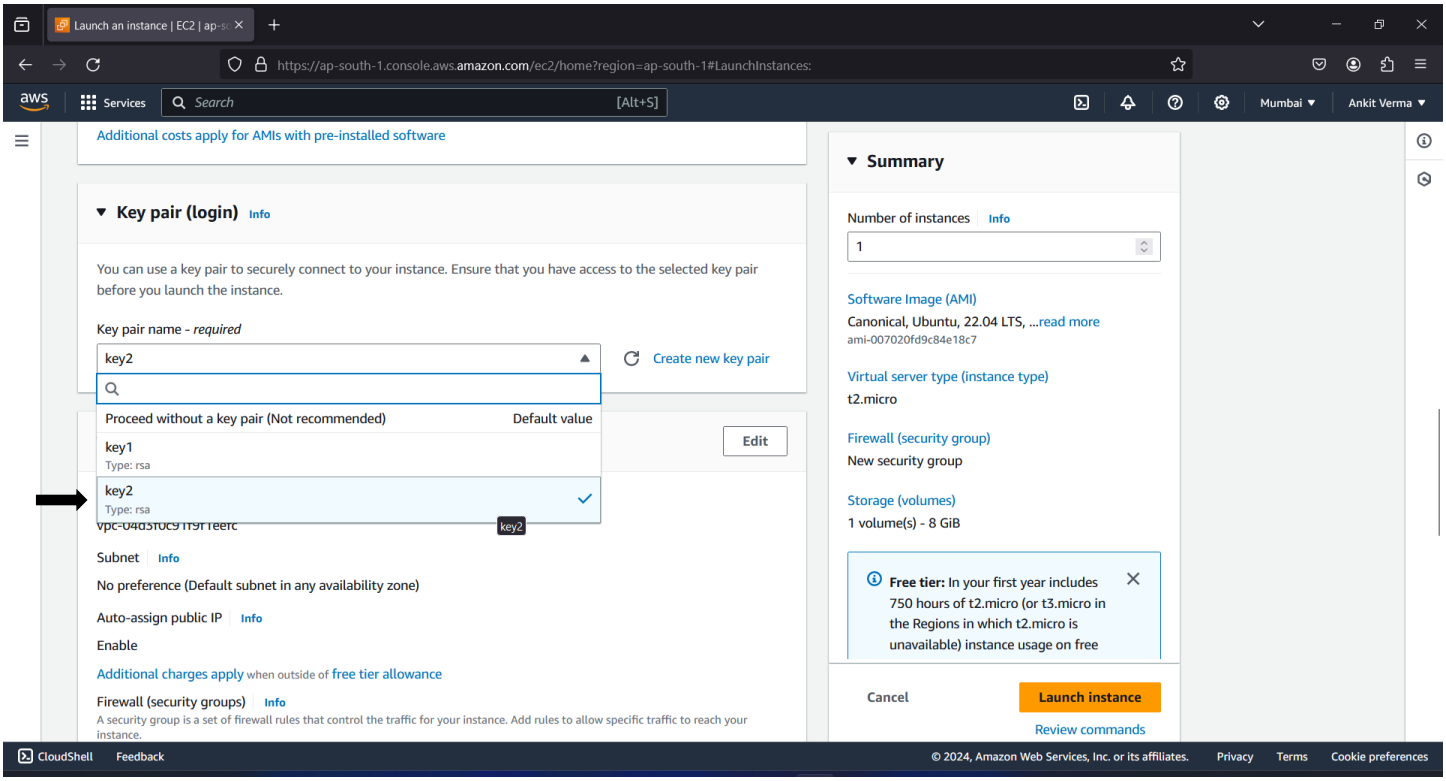
Step 2: Click on 'Launch Instance'.



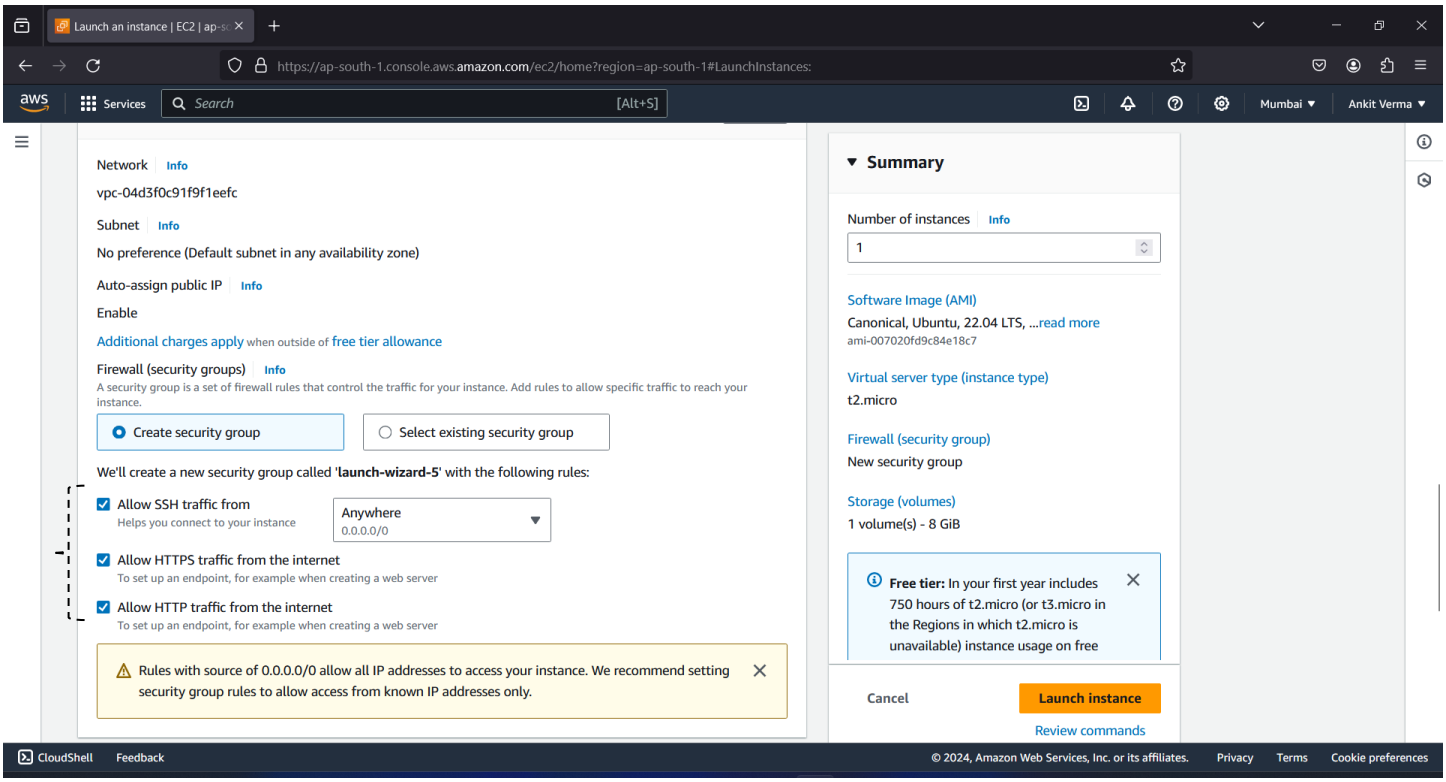
Step 3: Give a unique name to the instance and select Ubuntu.



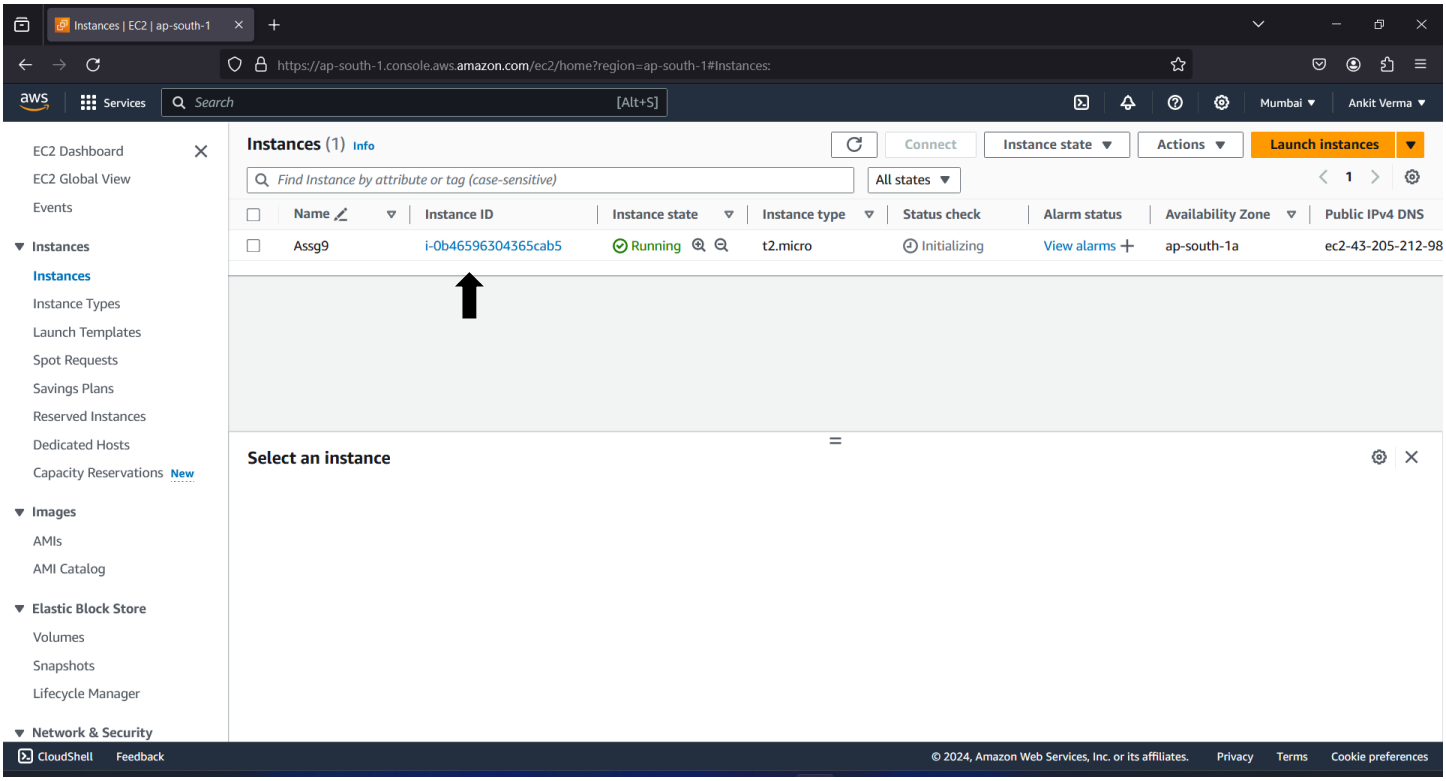
Step 4: Select the key from the list or create a new one.



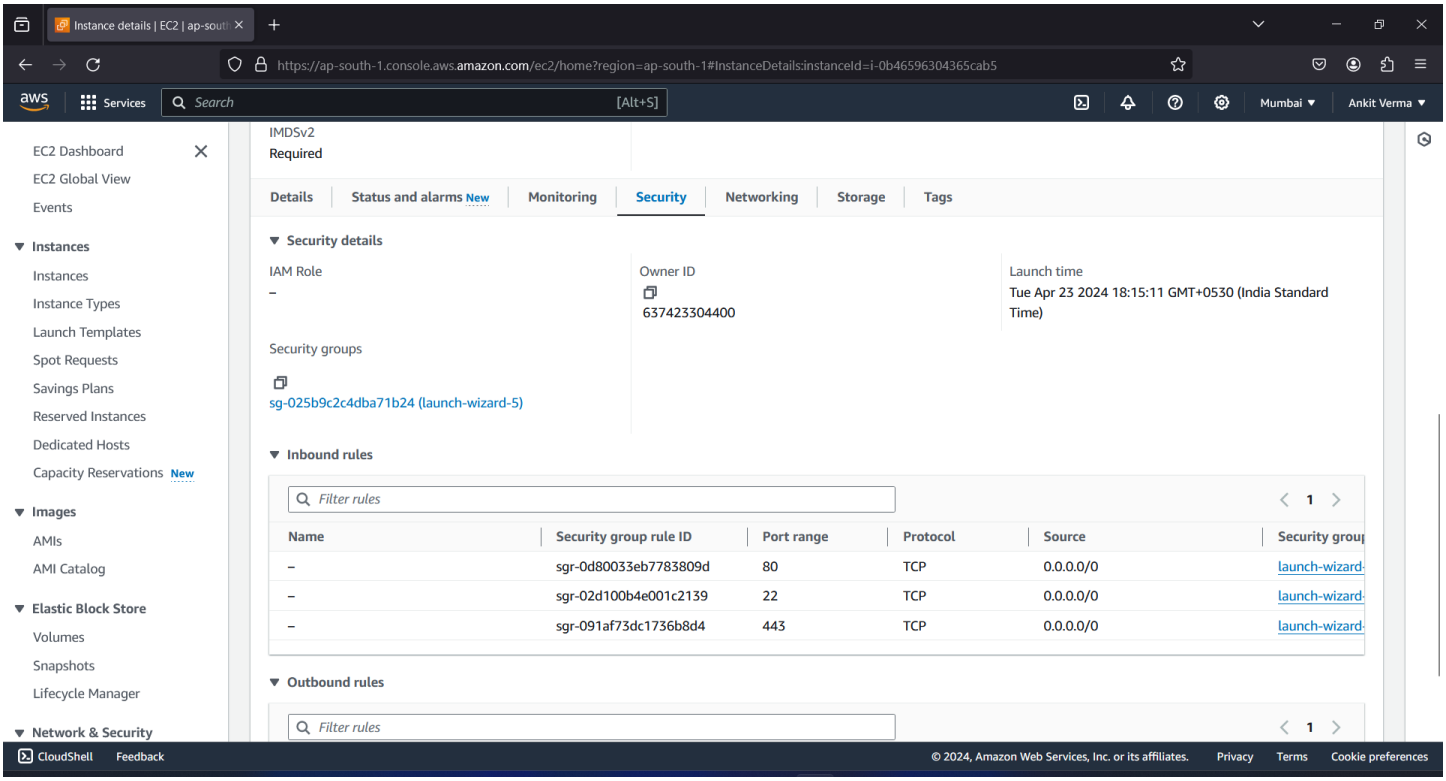
Step 5: Check all the 3 check boxes. Then click on Launch Instance.



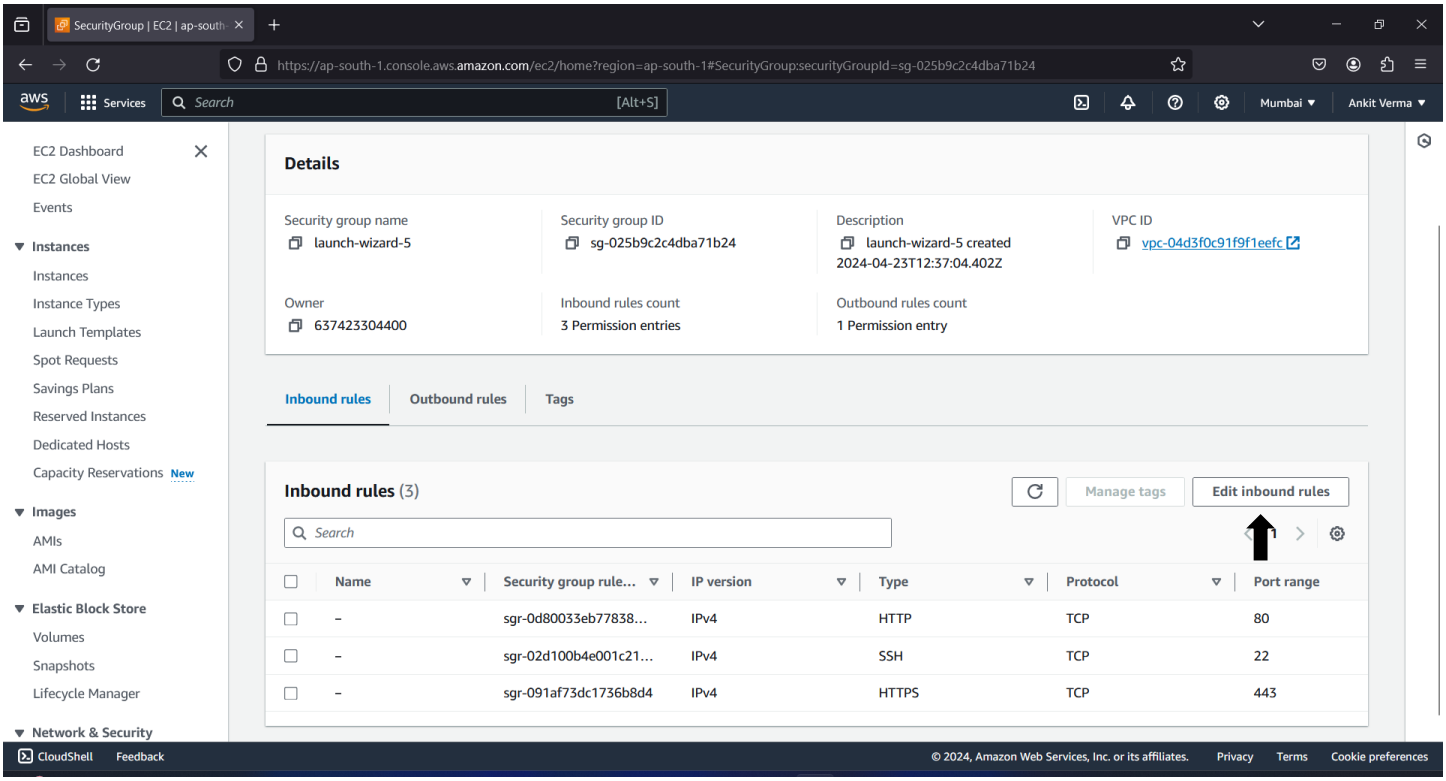
Step 6: Click on instance id to enter into the instance.



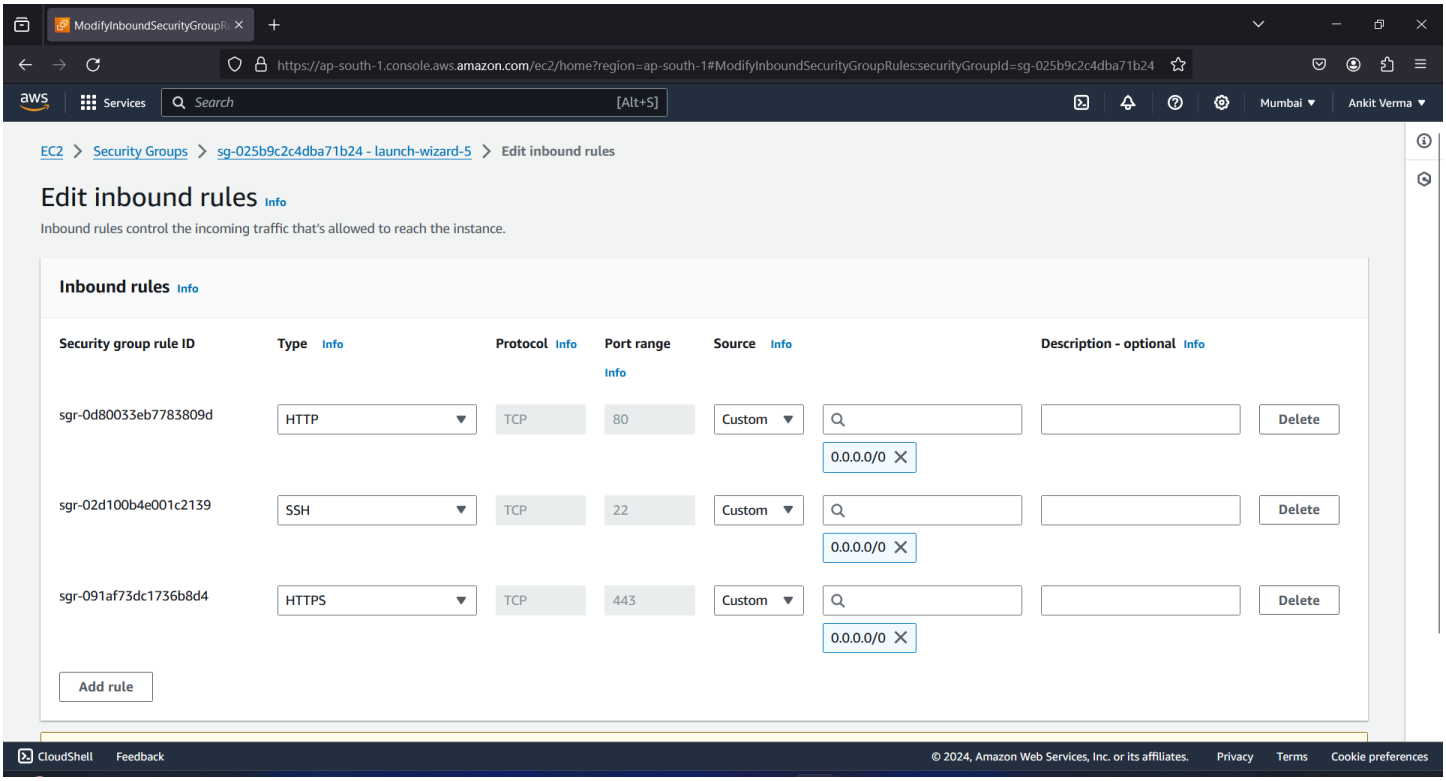
Step 7: Select the Security option & Click on the security group ID.



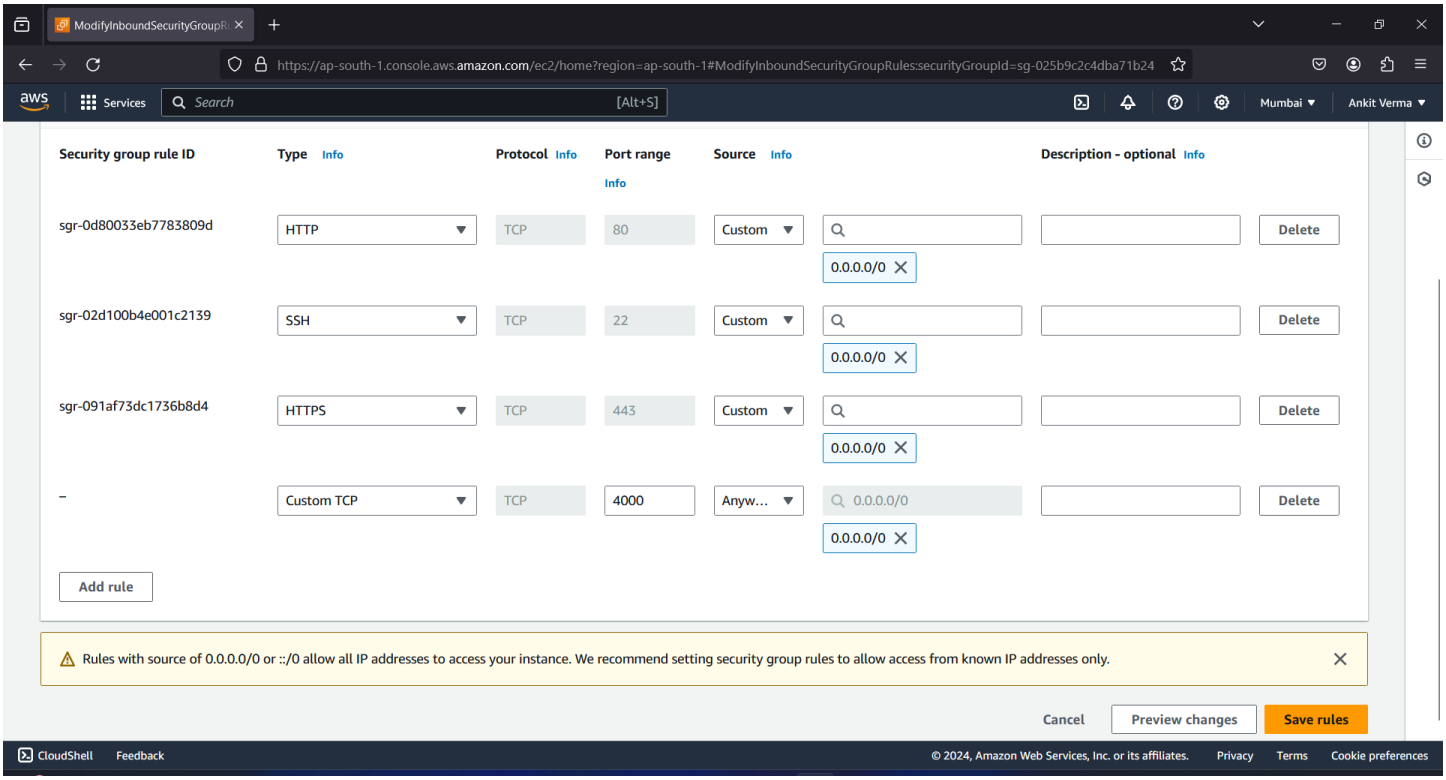
Step 8: Click on Edit Inbound Rules.



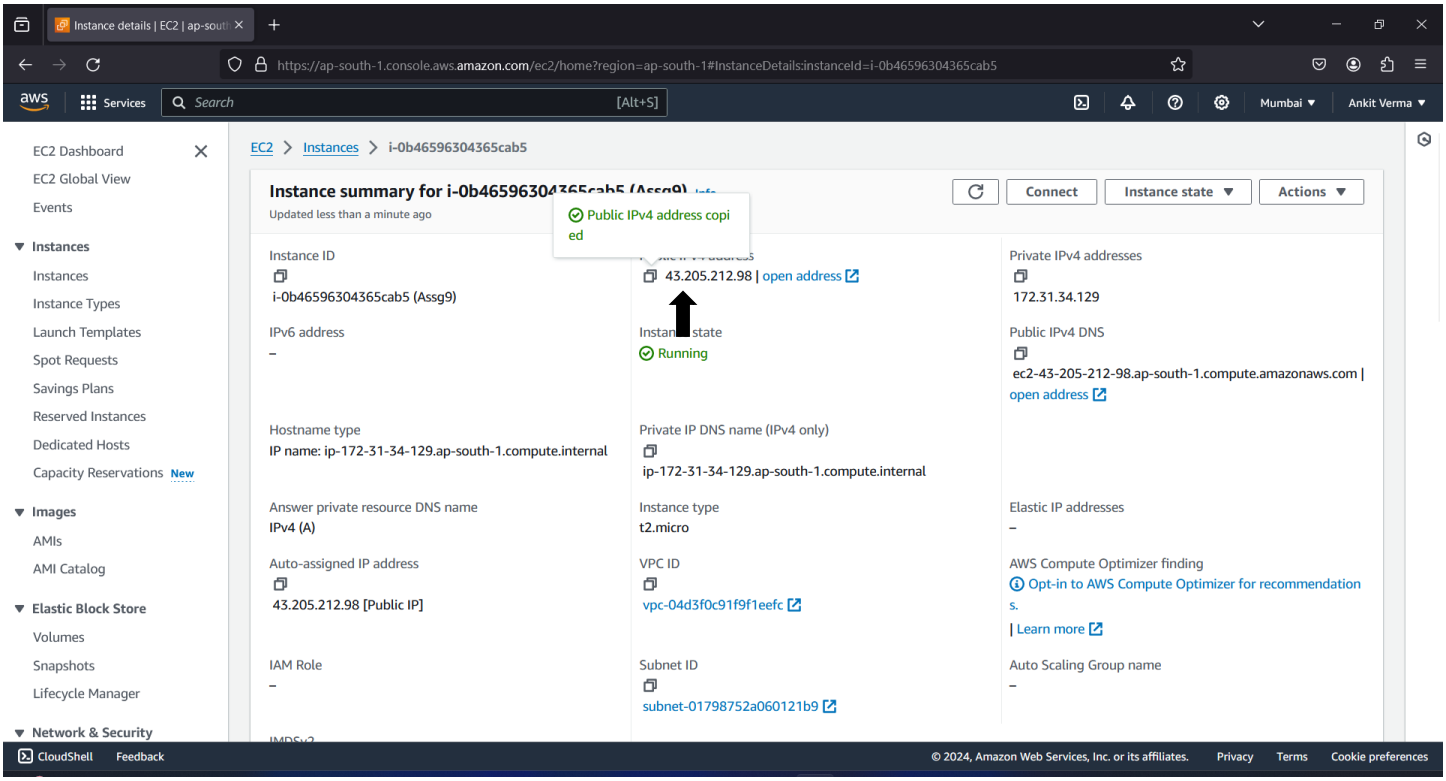
Step 9: Click on Add Rules.



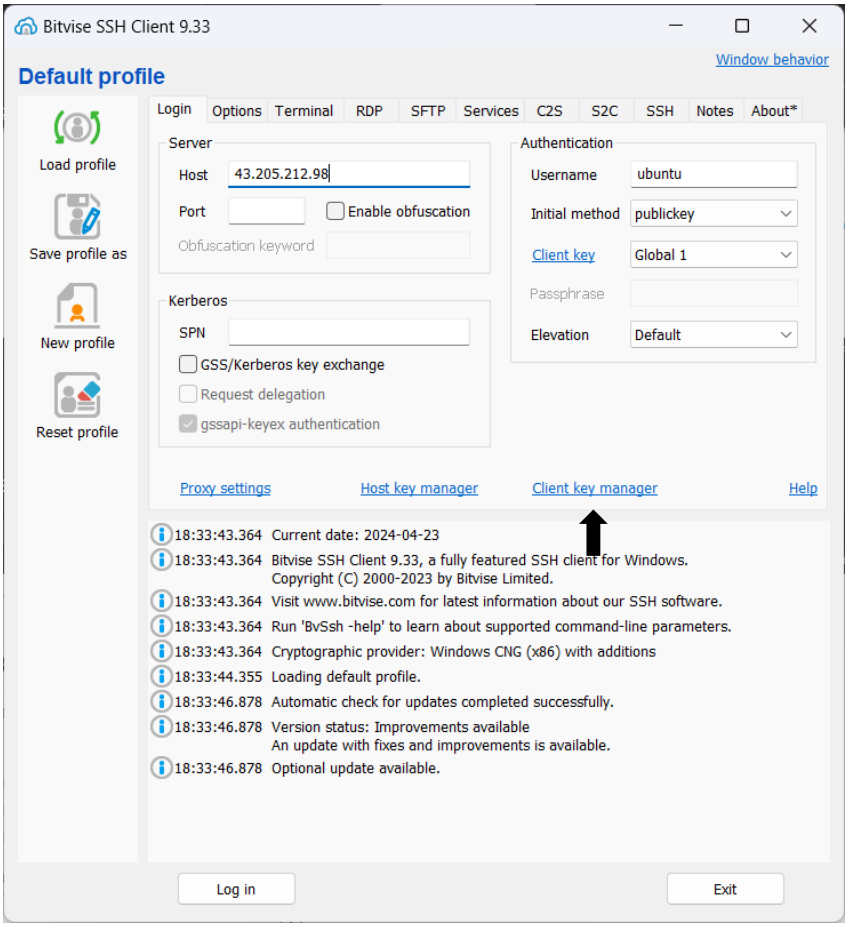
Step 10: Give the port no. 4000, in source info give 0.0.0.0/0. Then click on Save Rules.



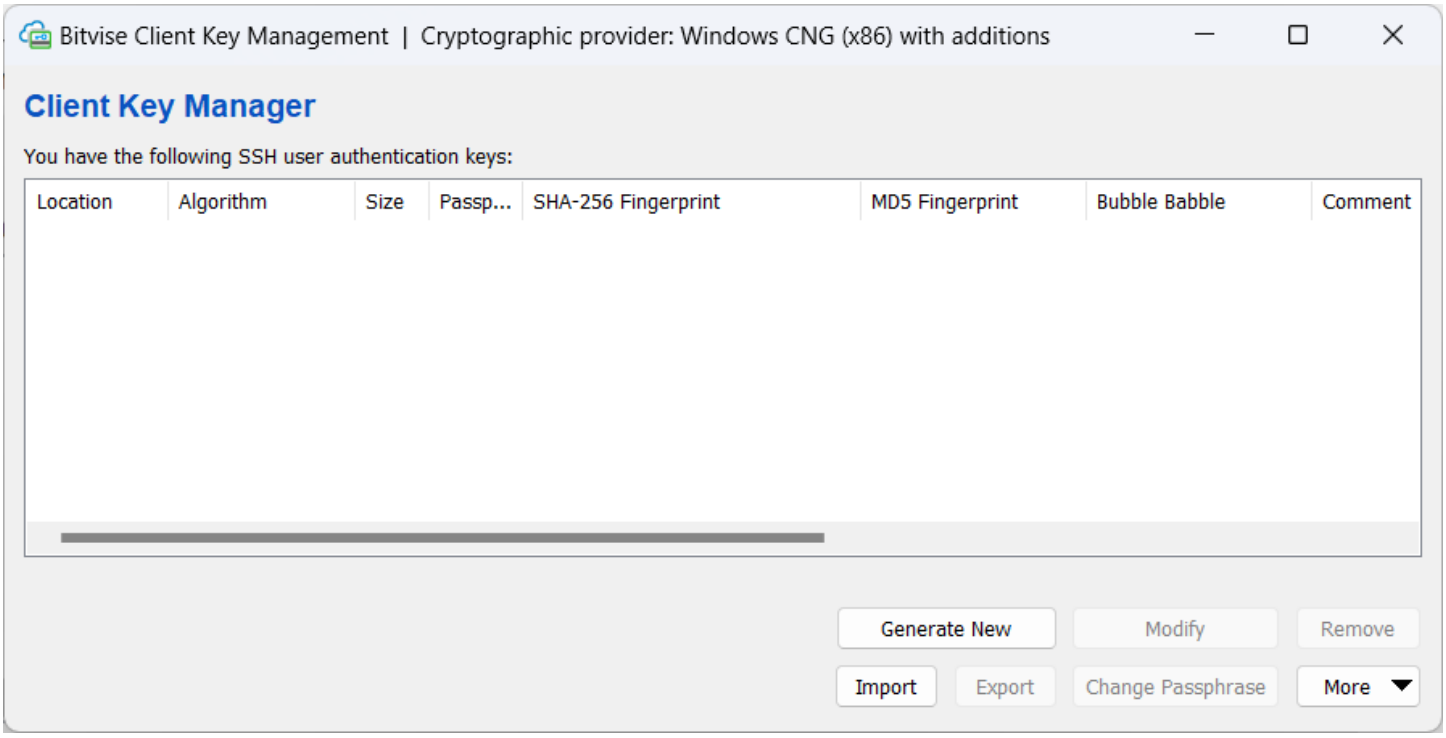
Step 11: Go back into the instance and copy the Public IPv4 Address.



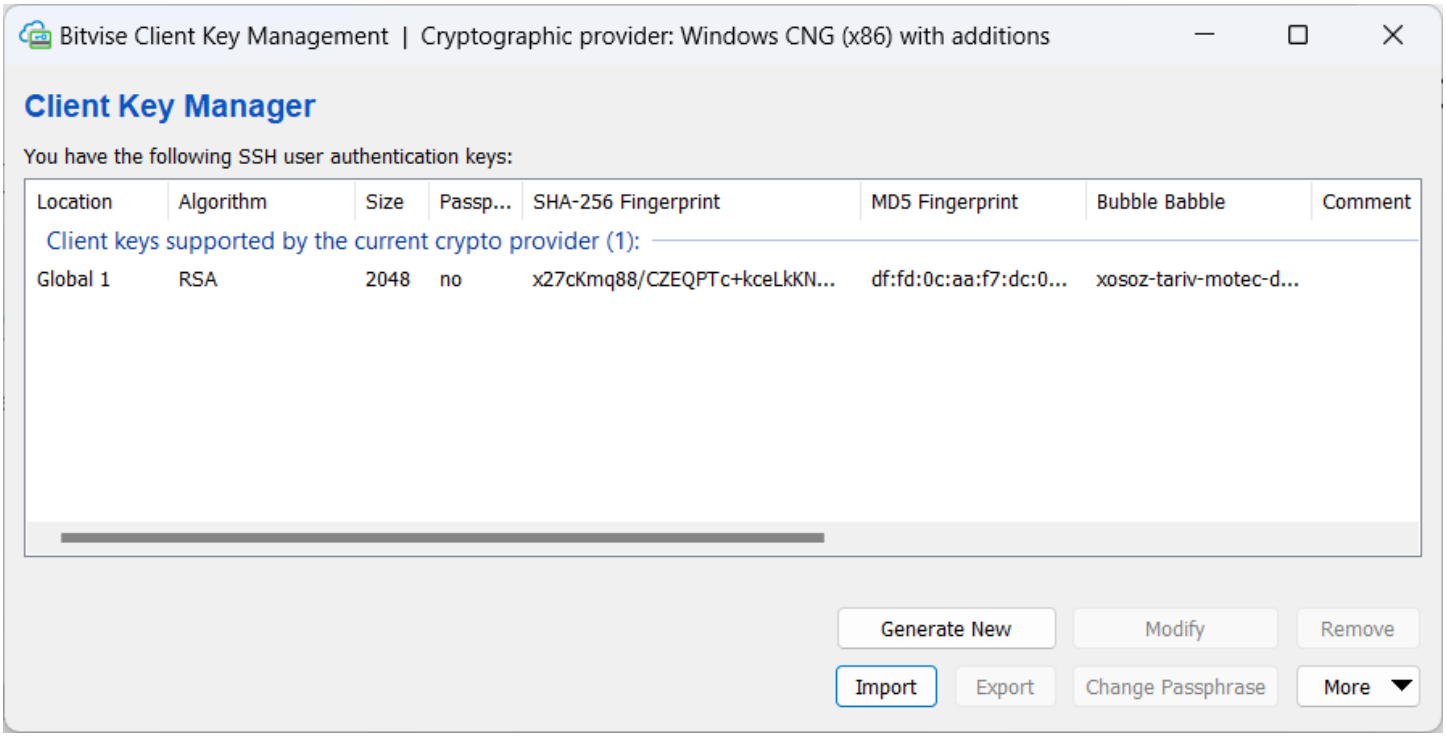
Step 12: Paste the address under the host tab. Under the Authentication tab, give the username as ubuntu, Initial method as publickey. Then click on Client Key Manager.



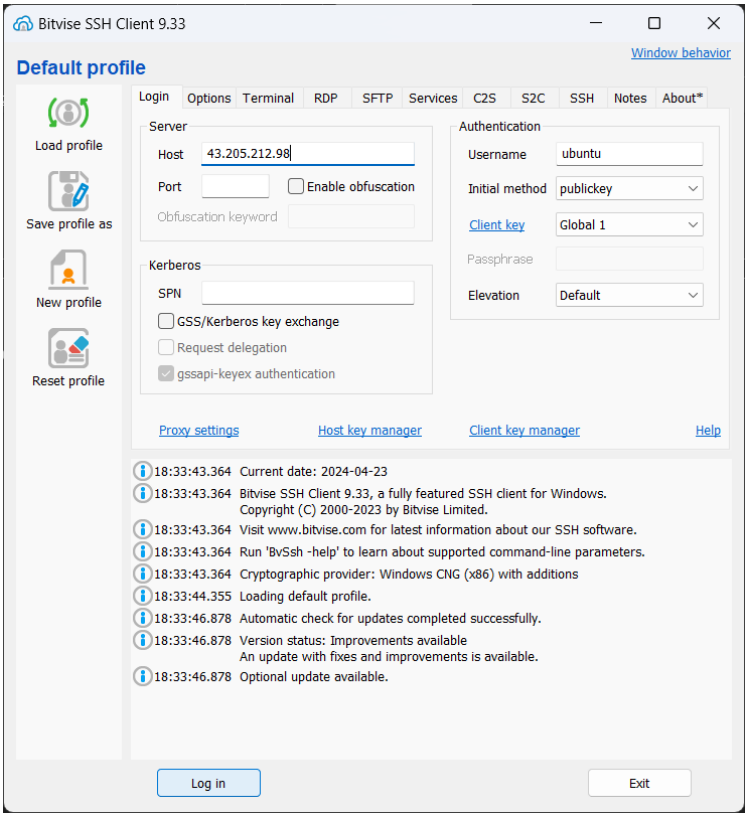
Step 13: Remove any previously selected key if any, the click on Import.



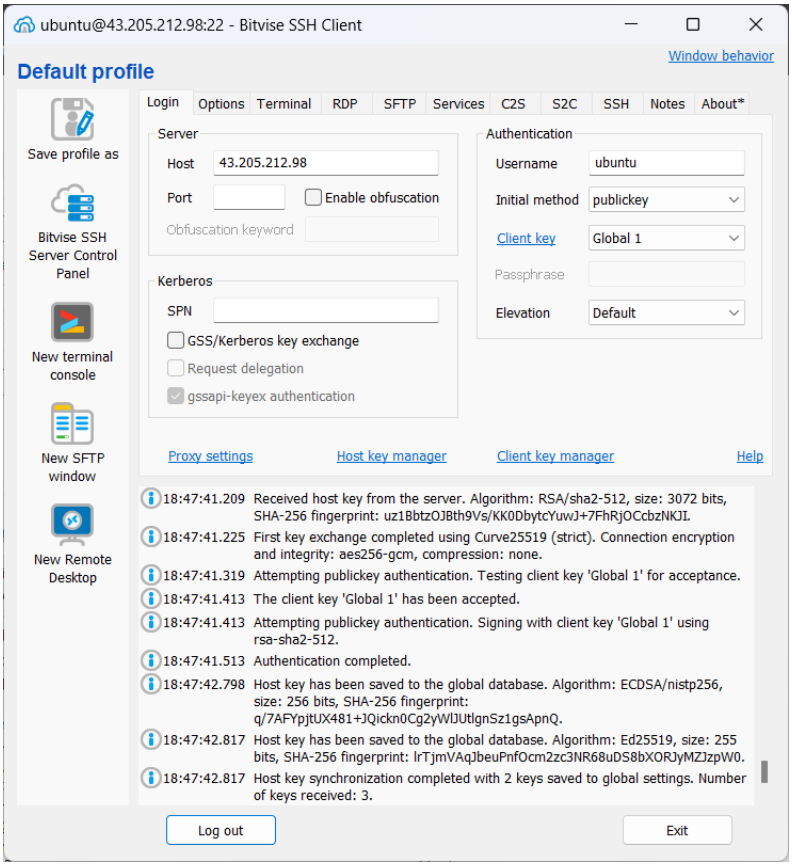
Step 14: Select the key using which instance was created. Then close the window.



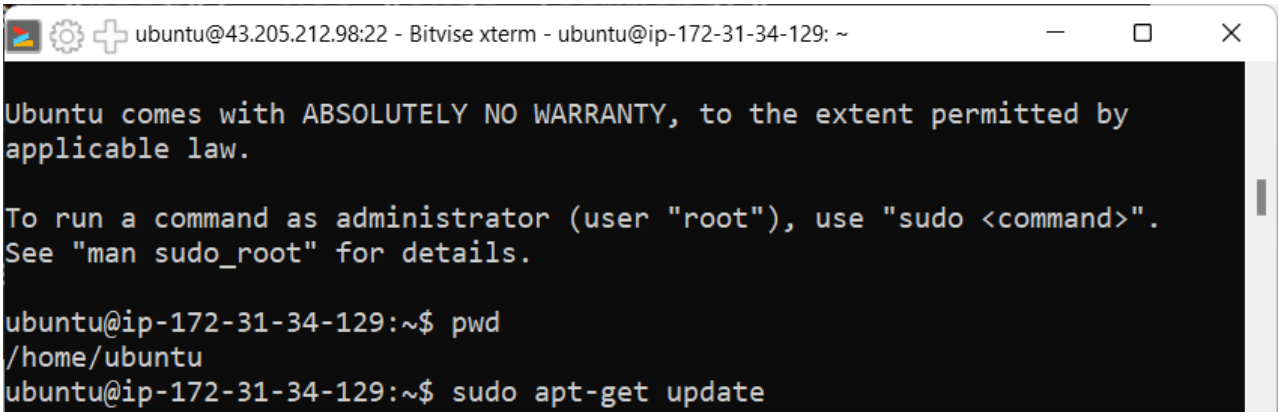
Step 15: Then click “Log in”.

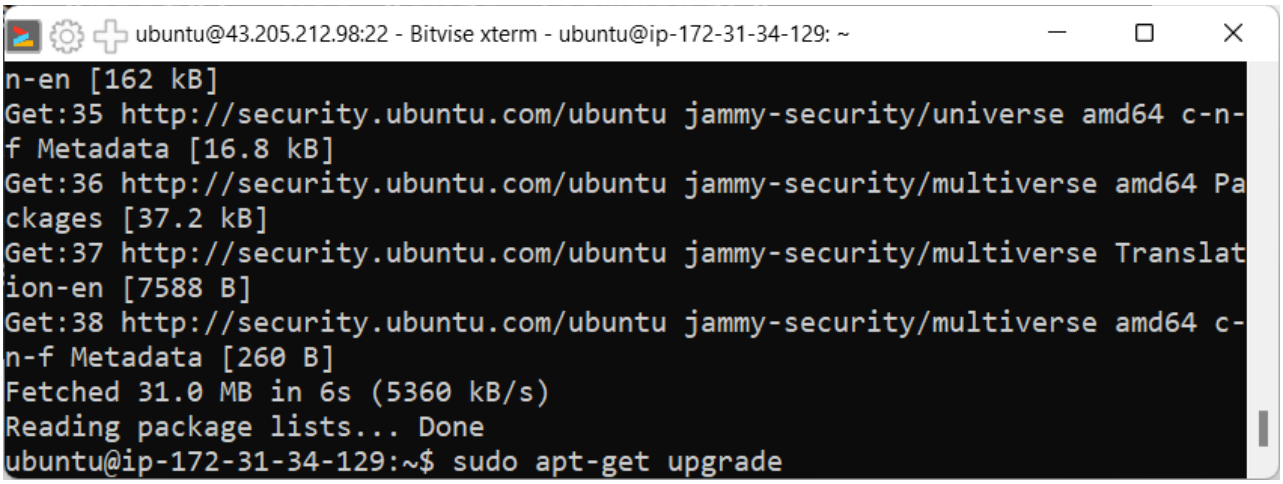


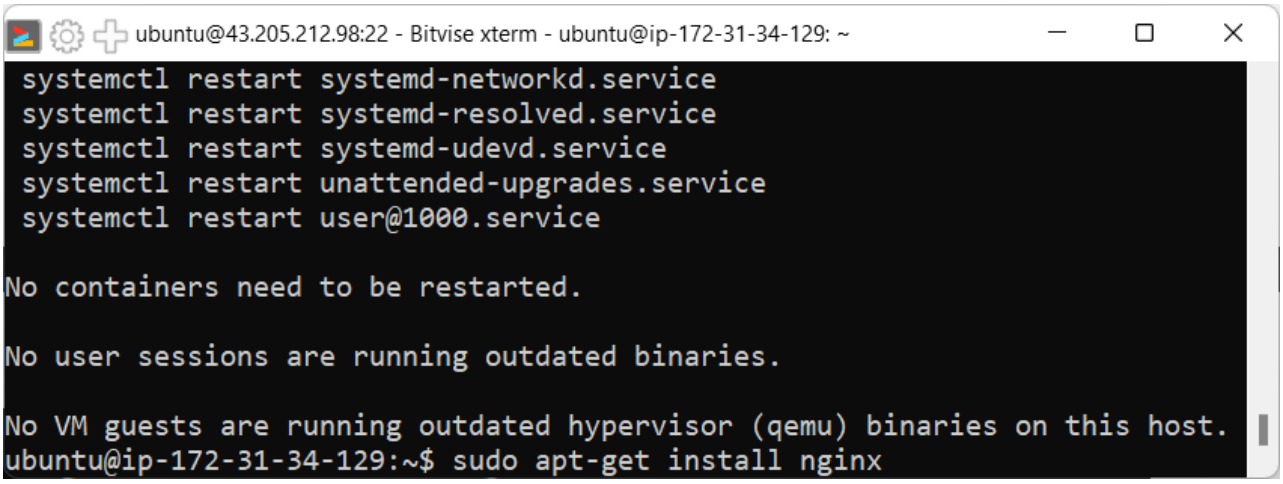
Step 16: Open a new terminal by clicking on New Terminal Console.

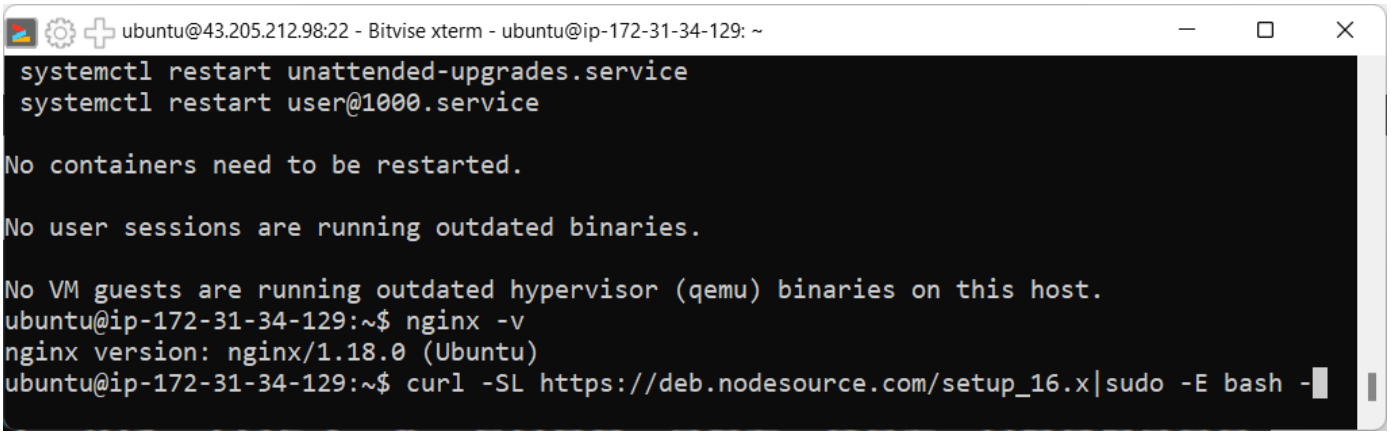


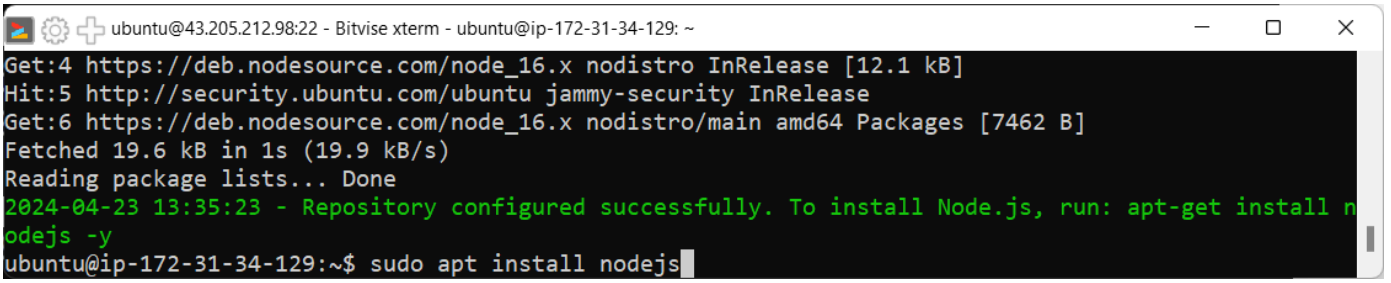
Step 17: In the console type the following commands in sequential order:



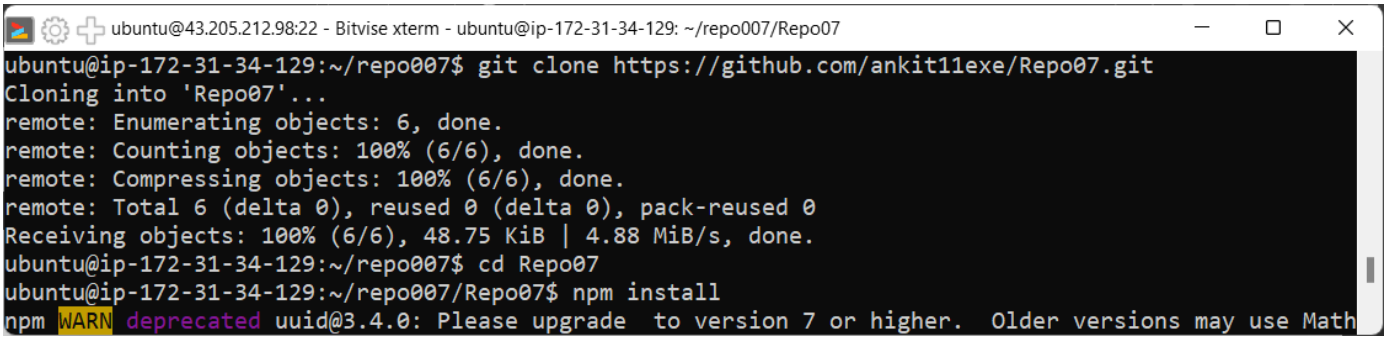





ubuntu@43.205.212.98:22 - Bitvise xterm - ubuntu@ip-172-31-34-129: ~
systemctl restart unattended-upgrades.service
systemctl restart user@1000.service
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-34-129:~$ nginx -v
nginx version: nginx/1.18.0 (Ubuntu)
ubuntu@ip-172-31-34-129:~$ curl -SL https://deb.nodesource.com/setup_16.x|sudo -E bash -

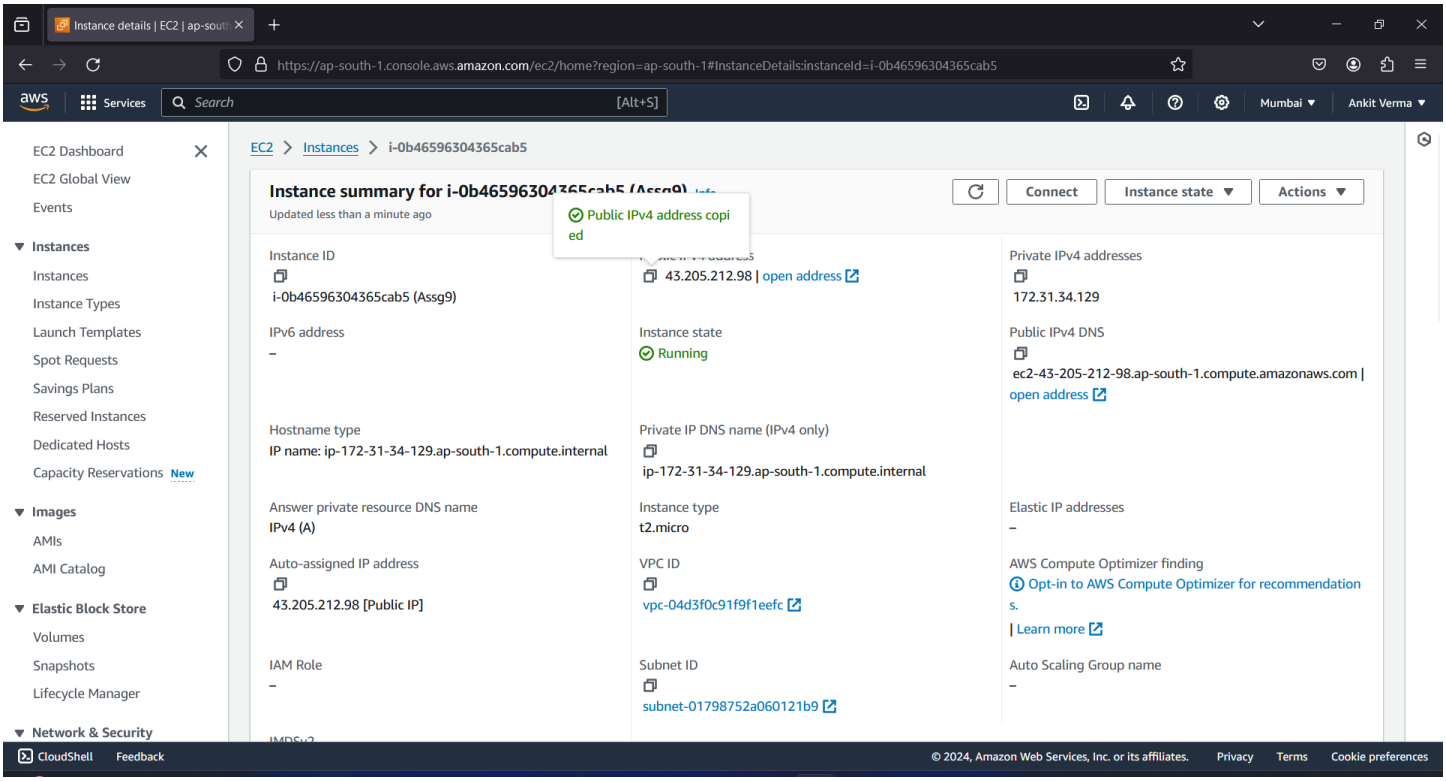

ubuntu@43.205.212.98:22 - Bitvise xterm - ubuntu@ip-172-31-34-129: ~
Get:4 https://deb.nodesource.com/node_16.x nodistro InRelease [12.1 kB]
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:6 https://deb.nodesource.com/node_16.x nodistro/main amd64 Packages [7462 B]
Fetched 19.6 kB in 1s (19.9 kB/s)
Reading package lists... Done
2024-04-23 13:35:23 - Repository configured successfully. To install Node.js, run: apt-get install n
odejs -y
ubuntu@ip-172-31-34-129:~$ sudo apt install nodejs


ubuntu@43.205.212.98:22 - Bitvise xterm - ubuntu@ip-172-31-34-129: ~
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-34-129:~$ node -v
v16.20.2
ubuntu@ip-172-31-34-129:~$

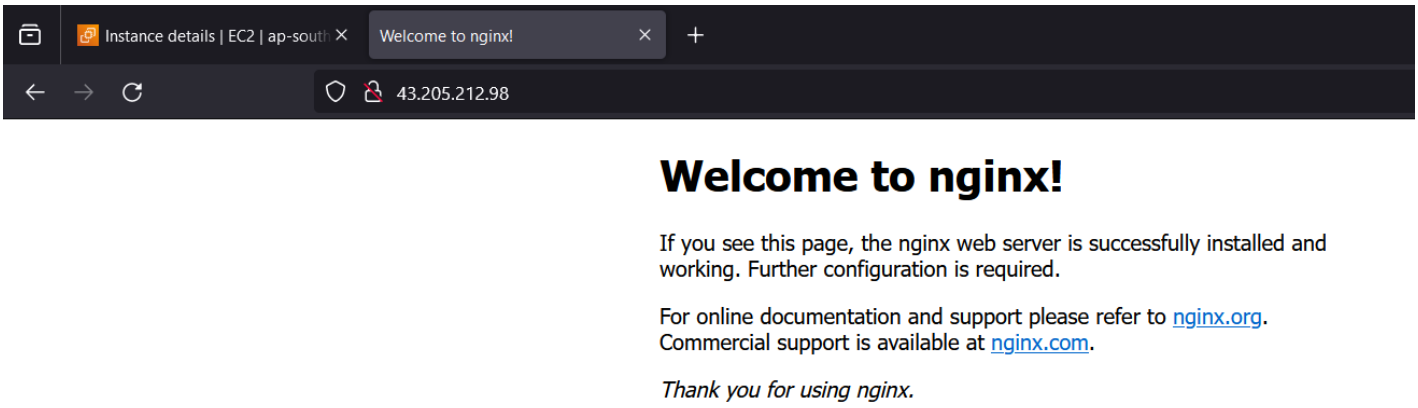

ubuntu@43.205.212.98:22 - Bitvise xterm - ubuntu@ip-172-31-34-129: ~/repo007/Repo07
ubuntu@ip-172-31-34-129:~/repo007$ git clone https://github.com/ankit11exe/Repo07.git
Cloning into 'Repo07'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), 48.75 KiB | 4.88 MiB/s, done.
ubuntu@ip-172-31-34-129:~/repo007$ cd Repo07
ubuntu@ip-172-31-34-129:~/repo007/Repo07$ npm install
npm WARN deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math


ubuntu@43.205.212.98:22 - Bitvise xterm - ubuntu@ip-172-31-34-129: ~/repo007/Repo07
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
ubuntu@ip-172-31-34-129:~/repo007/Repo07$ npm -v
8.19.4
ubuntu@ip-172-31-34-129:~/repo007/Repo07$ 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.