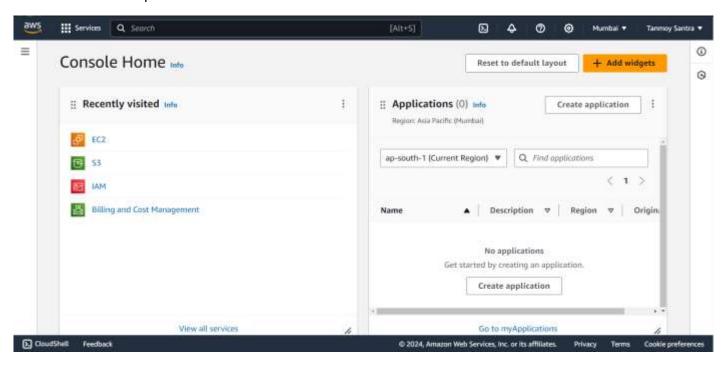
ASSIGNMENT - 9

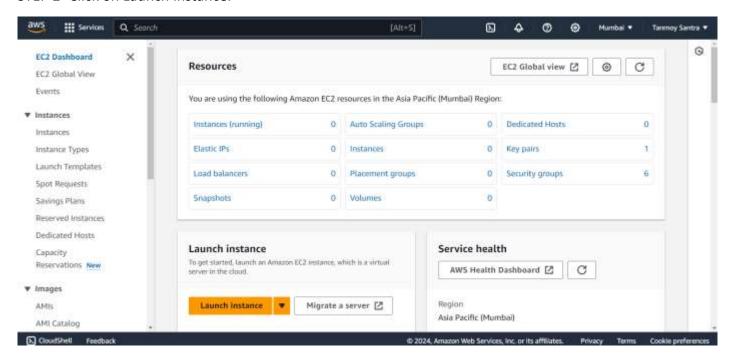
PROBLEM STATEMENT - Deploy a project from GitHub to EC2.

To Deploy the project

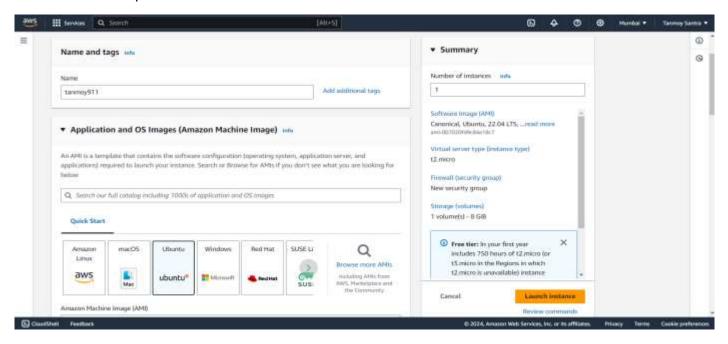
STEP 1- Select EC2 option.



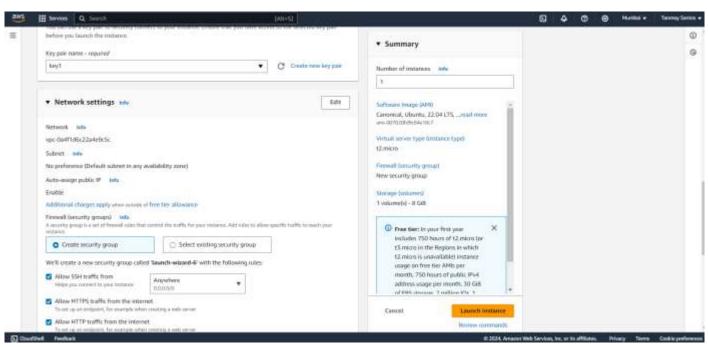
STEP 2- Click on Launch Instance.



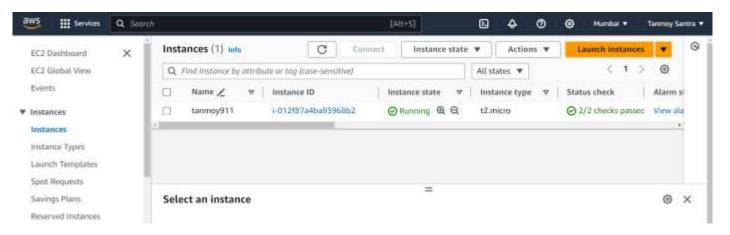
STEP 3- Give a unique name to the instance and select Ubuntu.



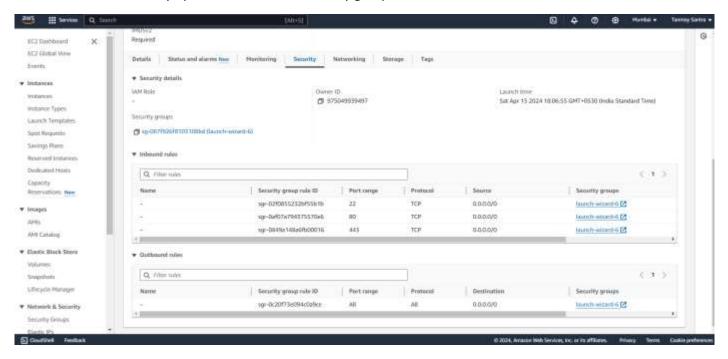
- STEP 4- Select the key from the list or create a new one.
- STEP 5- Check all the 3 check boxes. Then click on Launch Instance.



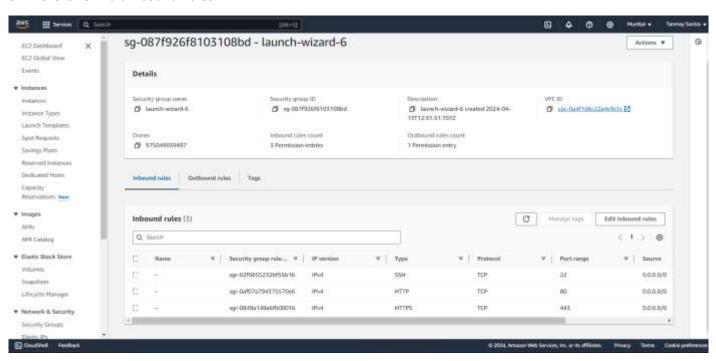
STEP 6- Click on instance id to enter into the instance.



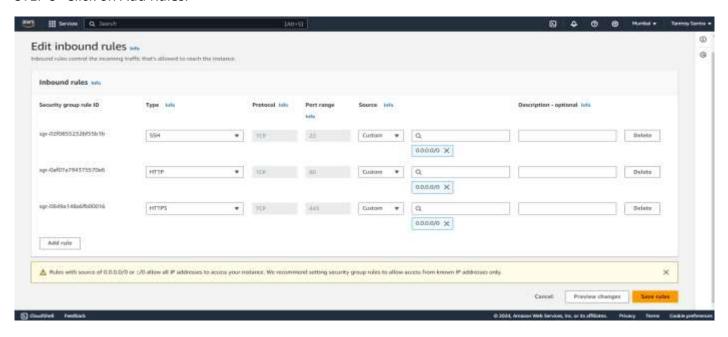
STEP 7- Select the Security option & Click on the security group ID.



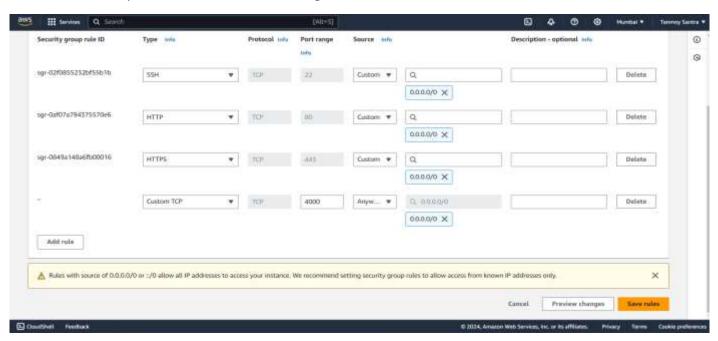
STEP 8-Click on Edit Inbound Rules.



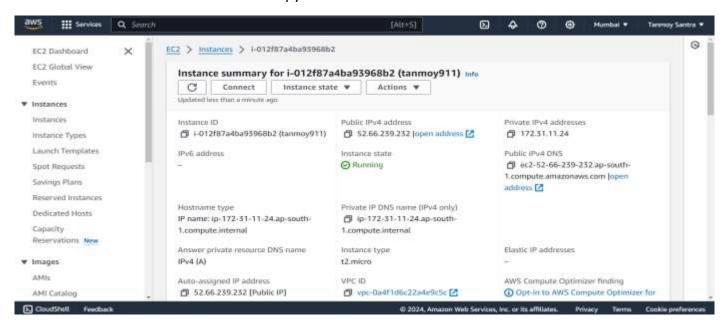
STEP 9- Click on Add Rules.



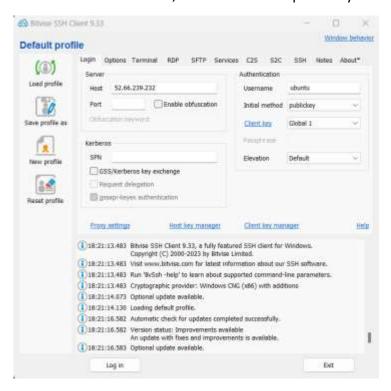
STEP 10- Give the port no. 4000, in source info give 0.0.0.0/0. Then click on Save Rules.



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

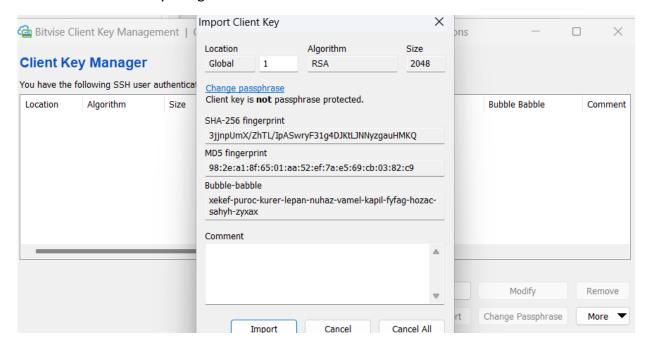


STEP 12- Open Bitvise SSH Client, Paste the address under the host tab. Under the Authentication tab, give the username as ubuntu, Initial method as publickey. Then click on Client Key Manager.



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:

```
🗾 👸 👍 ubuntu@15.206.187.161:22 - Bitvise xterm - ubuntu@ip-172-31-6-129: ~
                                                                                  X
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Jbuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
o run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ubuntu@ip-172-31-6-129:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-6-129:~$ sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Fetched 30.7 MB in 6s (5261 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-6-129:~$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

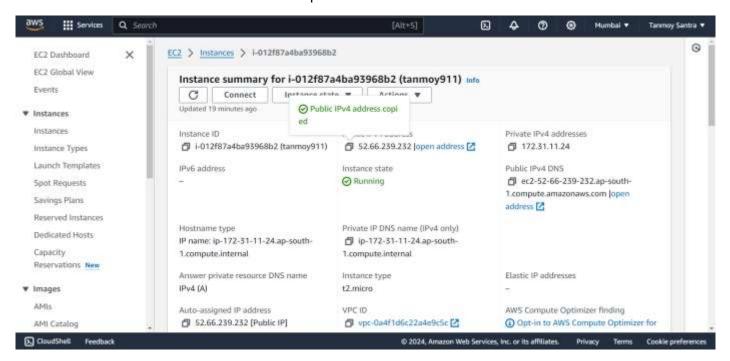
```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-6-129:~$ sudo apt-get install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
```

```
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: a
odejs -y
ubuntu@ip-172-31-6-129:~$ sudo apt install nodejs
Reading package lists.
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
```

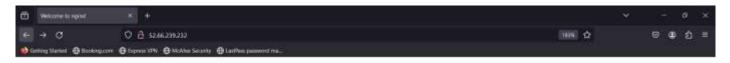
ubuntu@ip-172-31-6-129:~/awsass2\$ node index.js

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.



Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to nginx.org. Commercial support is available at nginx.com.

Thank you for using nginx.

STEP 20- The Nodejs file content will be visible.

