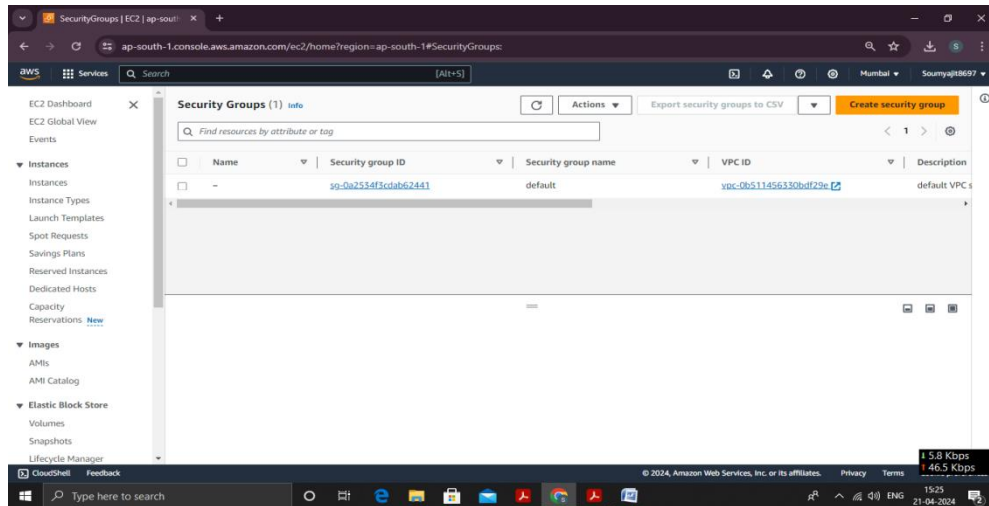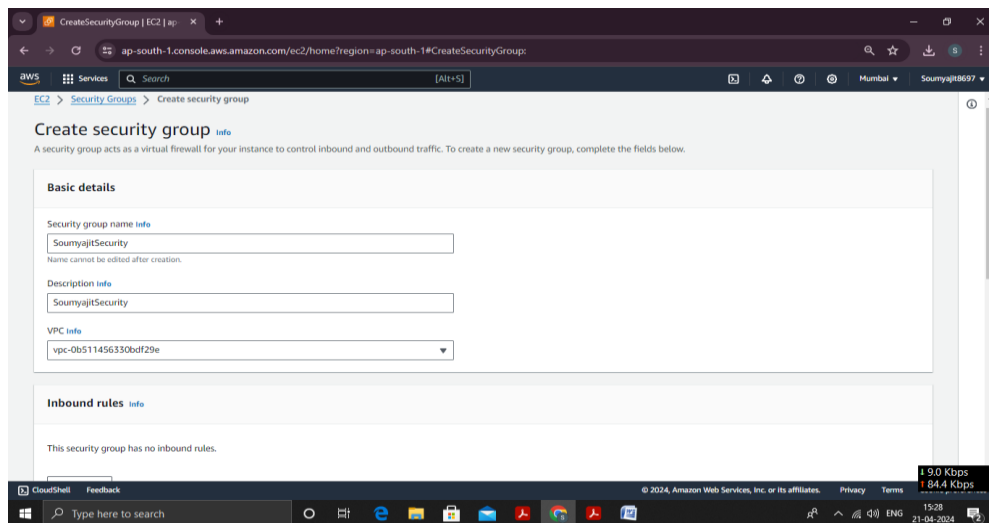## Assignment:-12

Problem Statement: Deploy and run the project in AWS without using port.
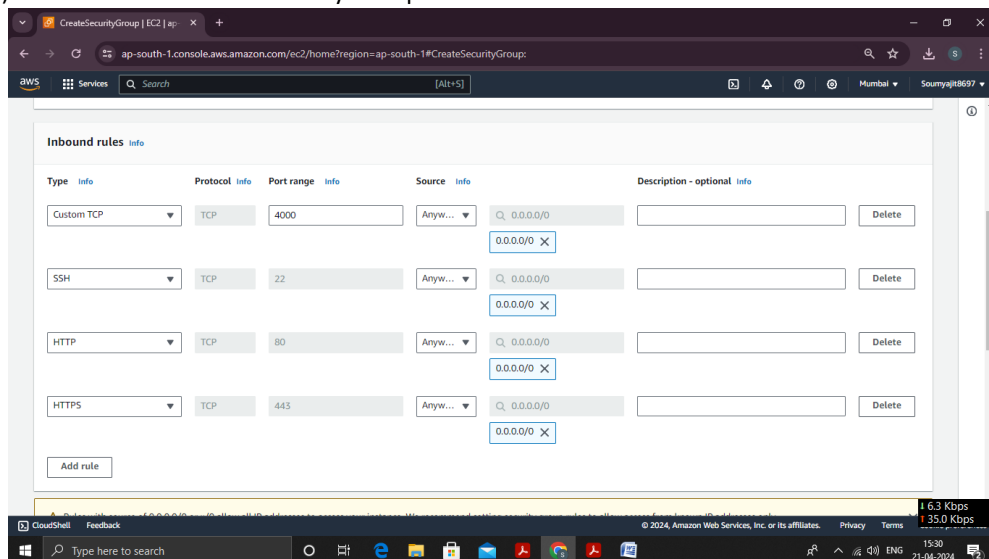
Steps:

   1. At first go to EC2 dashboard and then remove all security group except default, and then click on Create security group.
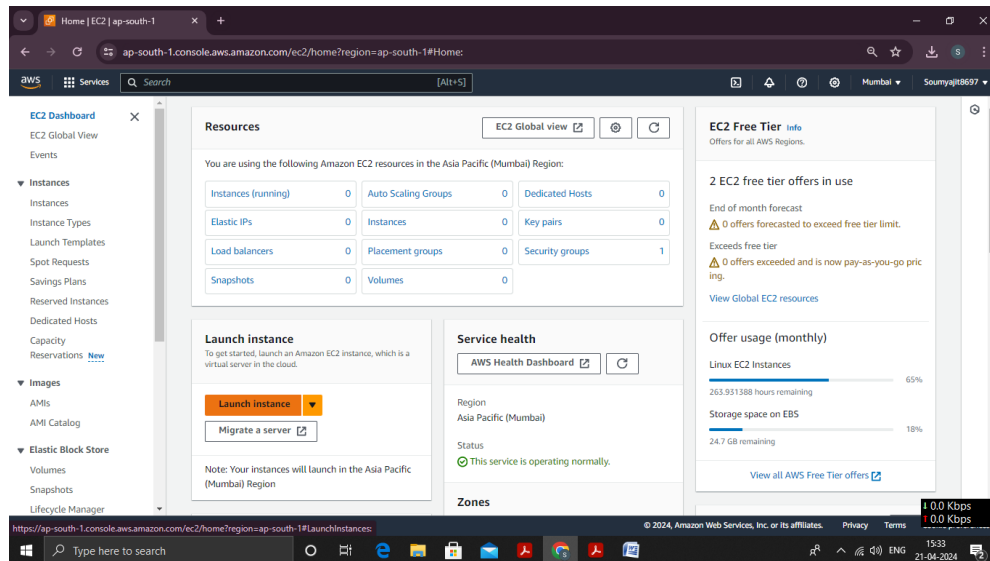

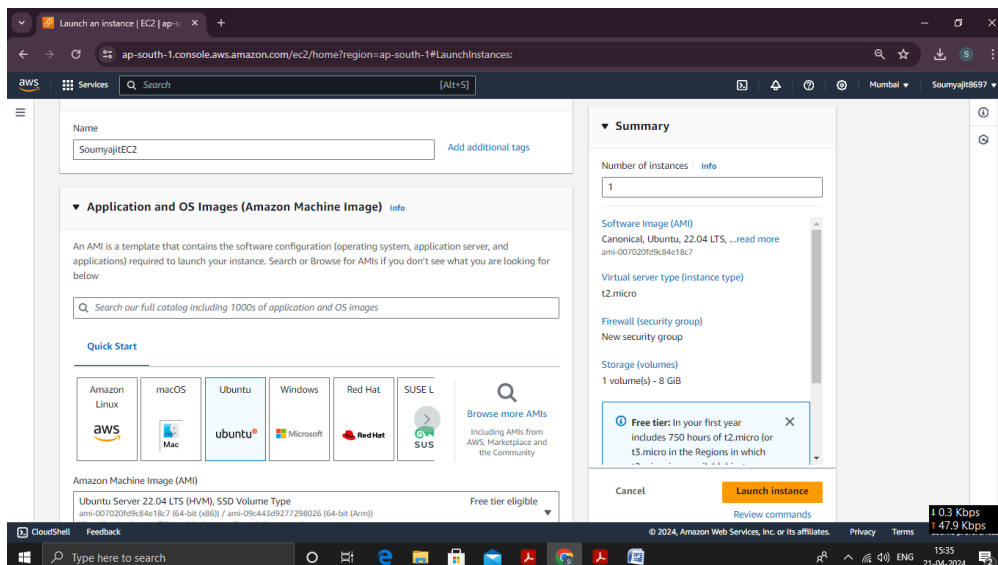2. Now give its proper name and description(Same as Name).

 3. Now in inbound click on "Add rule" and in this way add 4 security rules (Custom TCP, SSH, HTTP, HTTPs). Then click on "Create Security Group"
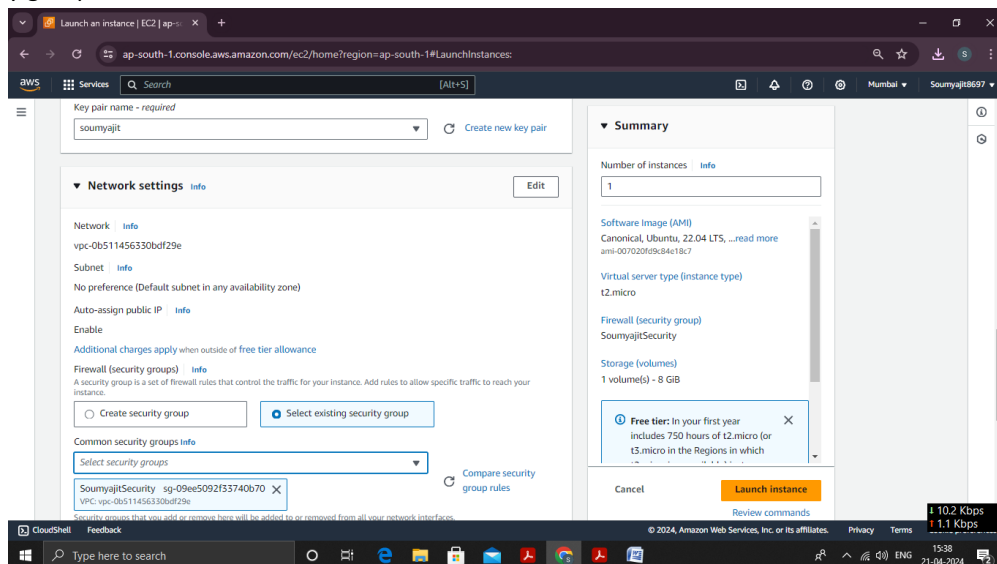
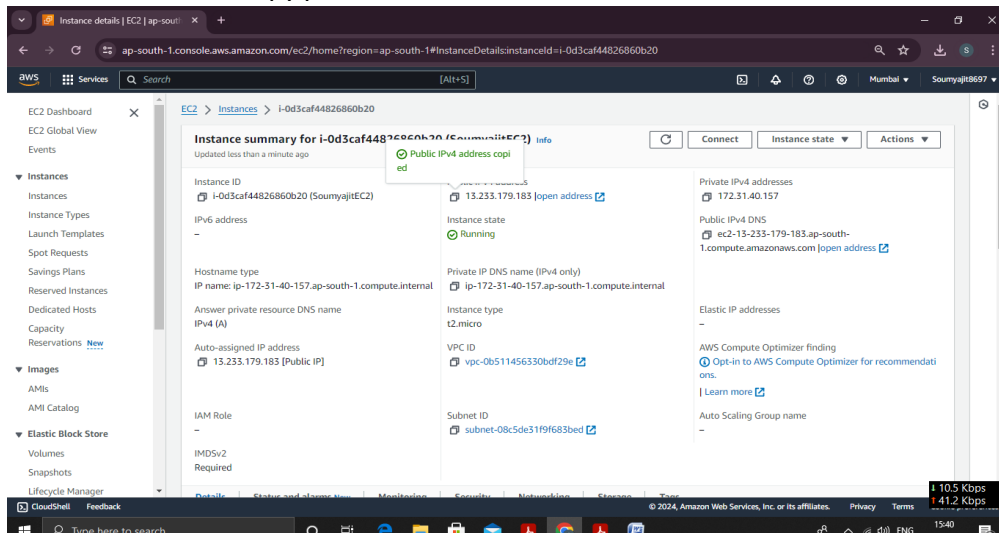4. Go to EC2 dashboard and click on Launch Instance.

5. After it give a unique name and then click on Ubuntu.

6. Now select key pair and in network settings also click on "Select existing security group" then select the security group which was created and click on Launch Instance.

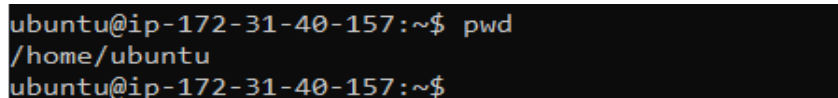7. Click on instance and copy public IPv4 address.

8. Paste the IPv4 address in host of BitVise SSH client and import key pair in Client key pair manager. After that click on Log In.
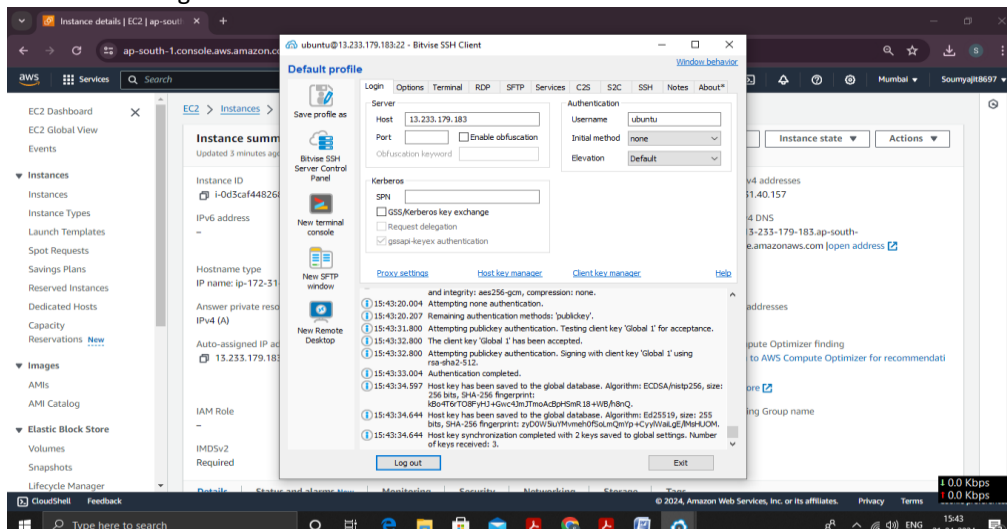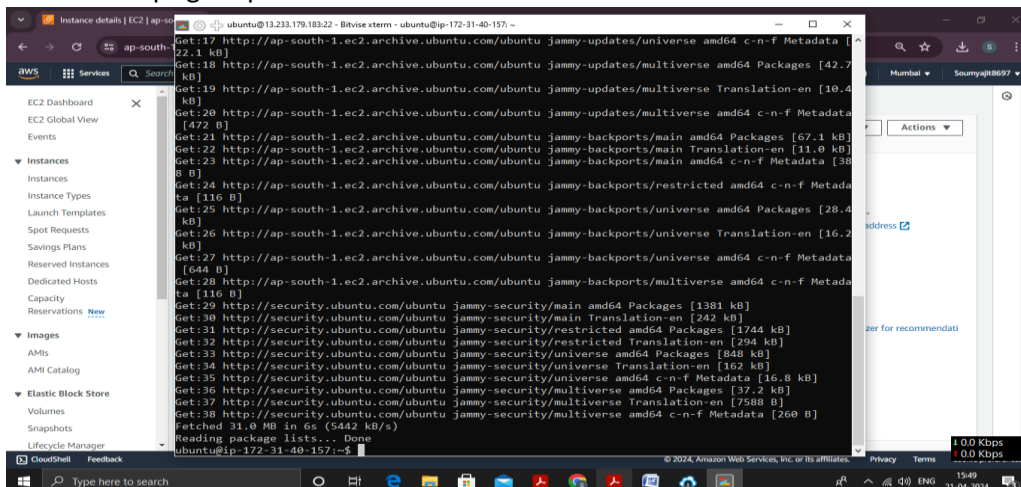

9. Now open terminal in BitVise SSH and then write all commands :
- Pwd

- sudo apt-get update

- sudo apt-get upgrade

- sudo apt-get install nginx

- curl -SL https://deb.nodesource.com/setup_16.x|sudo -E bash -

- sudo apt install nodejs

☐ git clone https://github.com/Soumyajit-Koley009/Repo3.git
- cd Repo3
- npm install
- node index.js

10. Now server has started. If we paste it in url section then we can see nginx has started. To stop server click (ctrl+c).
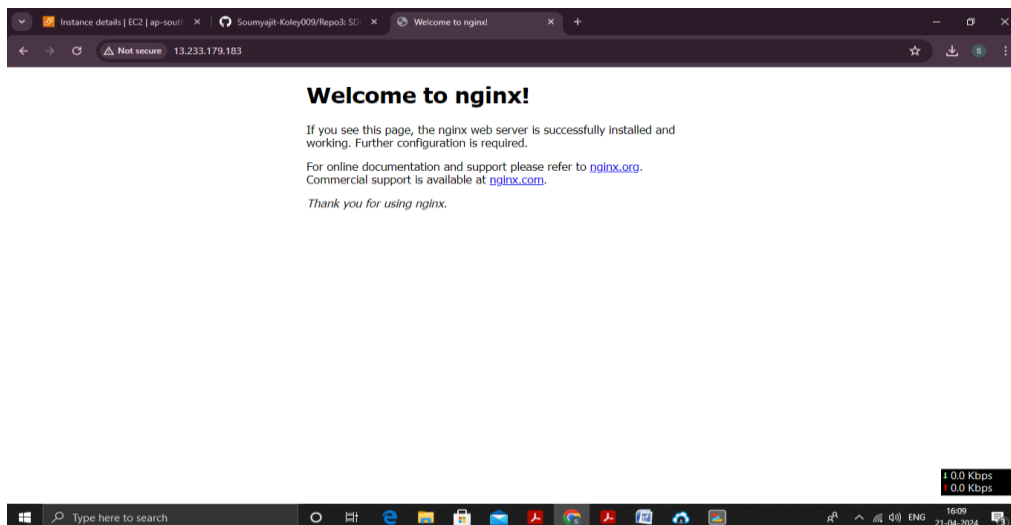
11. Now write these all commands:

• cd /

• pwd

• cd etc/nginx/sites-available/

• sudo nano default

```
Last login: Sat Apr 20 19:50:00 2024 from 152.58.182.232
ubuntu@ip-172-31-3-252:~$ cd /
ubuntu@ip-172-31-3-252:/$ pwd
/
ubuntu@ip-172-31-3-252:/$ cd etc/nginx/sites-available/
ubuntu@ip-172-31-3-252:/etc/nginx/sites-available$
```

12. A new window will be opened. There at first go to location area and comment all codes and the write:

• location/{

proxy_pass http://localhost:4000;
proxy_http_version 1.1;
proxy_set_header Upgrade $http_upgrade;
proxy_set_header Connection 'upgrade';
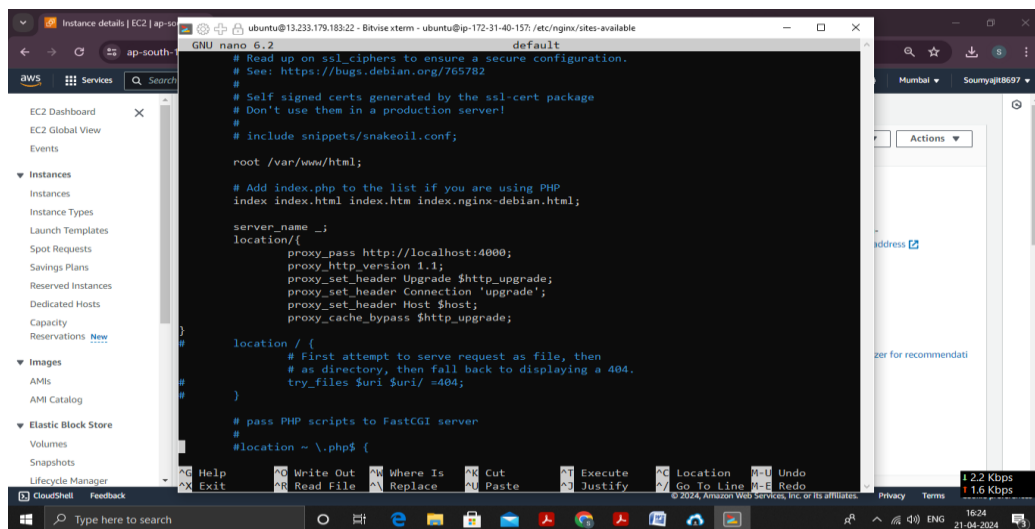proxy_set_header Host $host;
proxy_cache_bypass $http_upgrade;

}

->After it click ctrl+x, then y then click enter.

13. Now open new server terminal and write the commands

• cd Repo3

• sudo systemctl restart nginx.

```
Last login: Sat Apr 20 19:58:18 2024 from 152.58.182.232
ubuntu@ip-172-31-3-252:~$ cd Repo2
ubuntu@ip-172-31-3-252:~/Repo2$  sudo systemctl restart nginx
Job for nginx.service failed because the control process exited with error code.
See "systemctl status nginx.service" and "journalctl -xeu nginx.service" for details.
ubuntu@ip-172-31-3-252:~/Repo2$
```

14..Now copy that public IPv4 address again and paste it in url and there we can see that without giving port(:4000) with url we have hosted the website.

Hello World