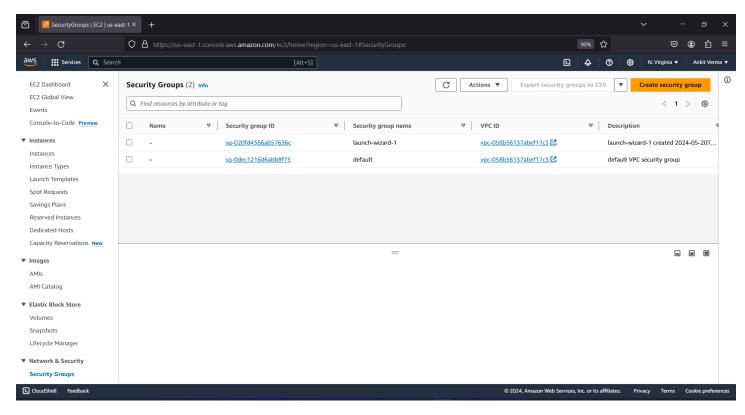
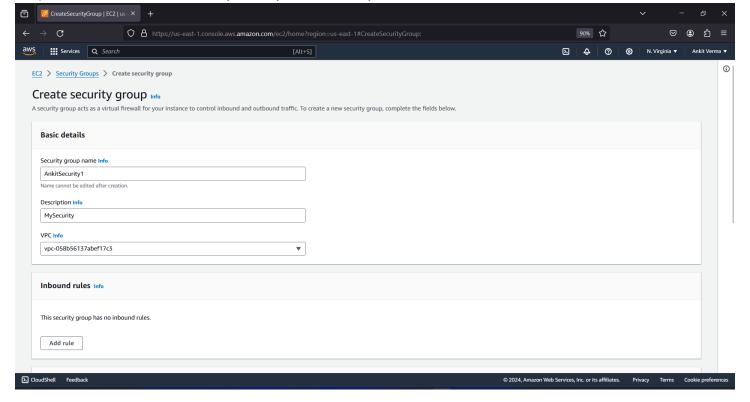
Assignment: 12

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

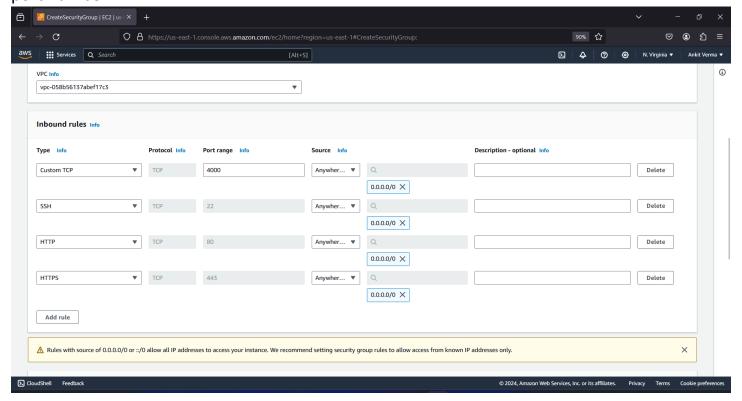
Step 1: Go to EC2 then Security groups and click on Create Security Group option.



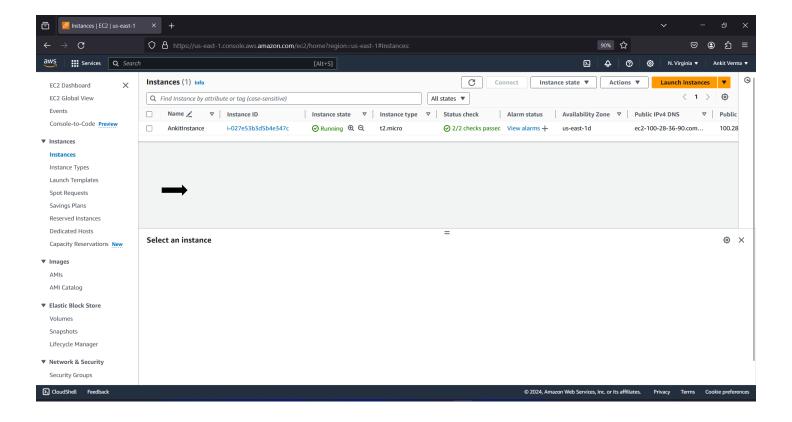
Step 2: Give name of Security Group and description.



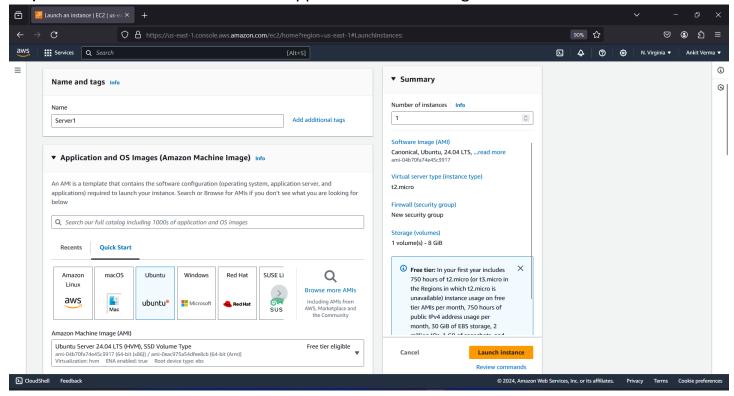
Step 3: In Inbound rules click on Add rule. Here, we add all 4 rules: Custom TCP, SSH, HTTP, HTTPS and in Source select 0.0.0.0/0 In port range of Custom TCP give 4000. Rest has default port number.



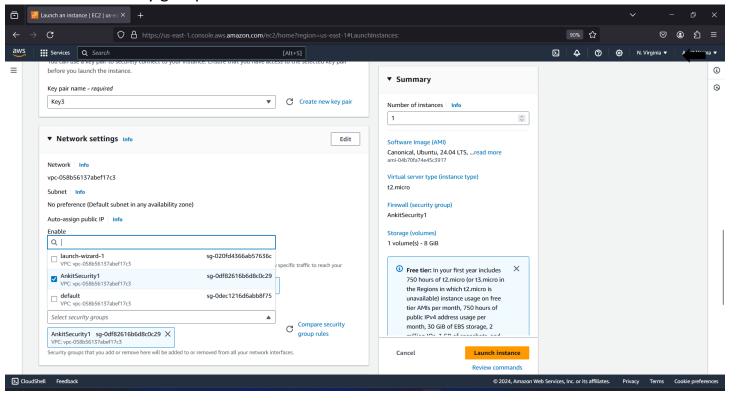
Step 4: Go back to instance and click on Launch instance.



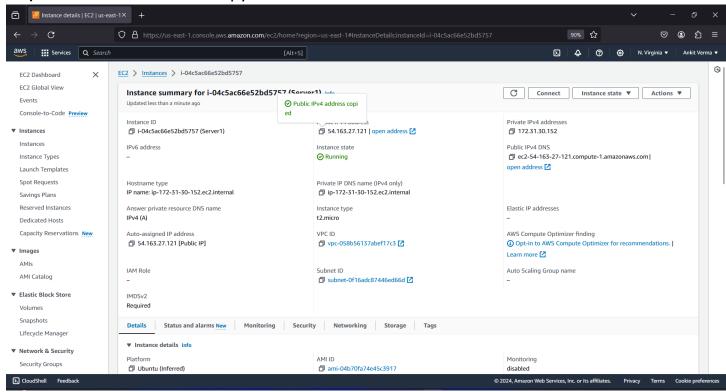
Step 5: Give name of instance and in Application and OS Images select Ubuntu.



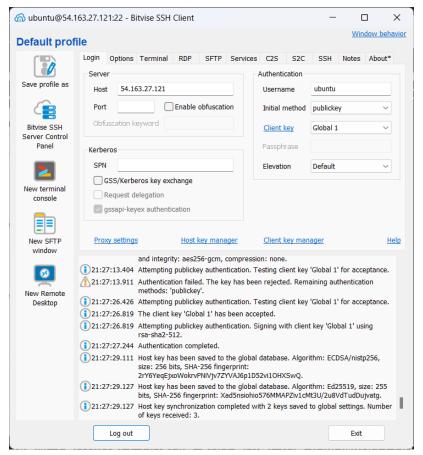
Step 6: Select existing key pair and then click on Common Security group dropdown and select the created security group. Then click on Launch Instance.



Step 7: Go to Instances and copy Public IPv4 address.



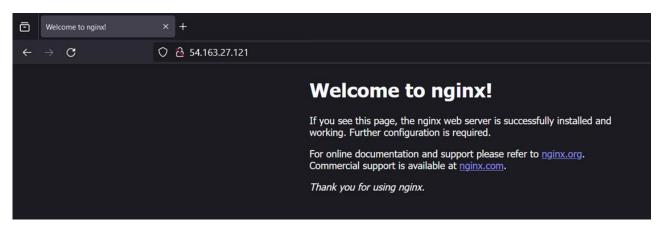
Step 8: In Bitvise SSH Client, paste Copied IPv4 address, import the required key and click on Log In.



Step 9: Open New Terminal Console and enter the following commands:

```
🗾 👸 占 ubuntu@54.163.27.121:22 - Bitvise xterm - ubuntu@ip-172-31-30-152: ~
                                                                                               \Box
                                                                                                     ×
ubuntu@ip-172-31-30-152:~$ sudo apt-get update
sudo apt 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/UnderDevelopment10/new-repo1.git
npm install
node index.js
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates In
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [89.
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu_noble/main_amd64
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main Trans
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe a
```

Step 10: Paste the copied URL in browser. Then stop the server.

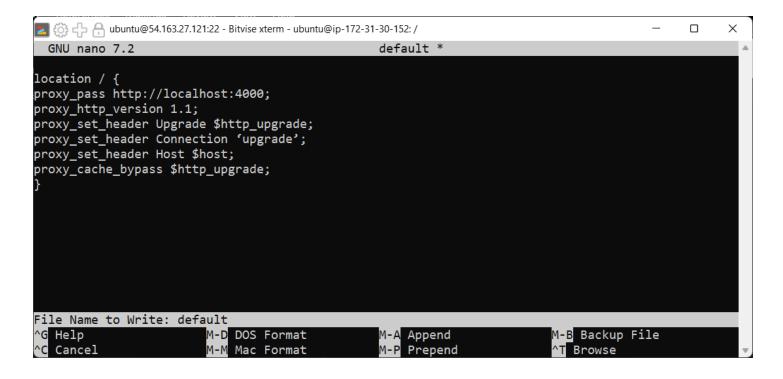


Step 11: Now type the following commands:

- i. cd /
- ii. pwd
- iii. cd etc/nginx/sites-available/
- iv. sudo nano default

Step 12: In the "default" file, comment out all lines under location. Then type the following lines in place of location.

Step 13: To save and exit, press Ctrl+X, then Y and press Enter.

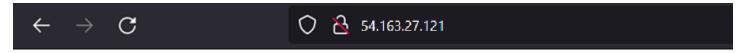


Step 14: Open new server terminal and type

cd new-repo1

sudo systemctl restart nginx

Step 15: Paste the copied IPv4 address in browser.



Hello World

Here, the page has been accessed without using any port number with the IPv4 address