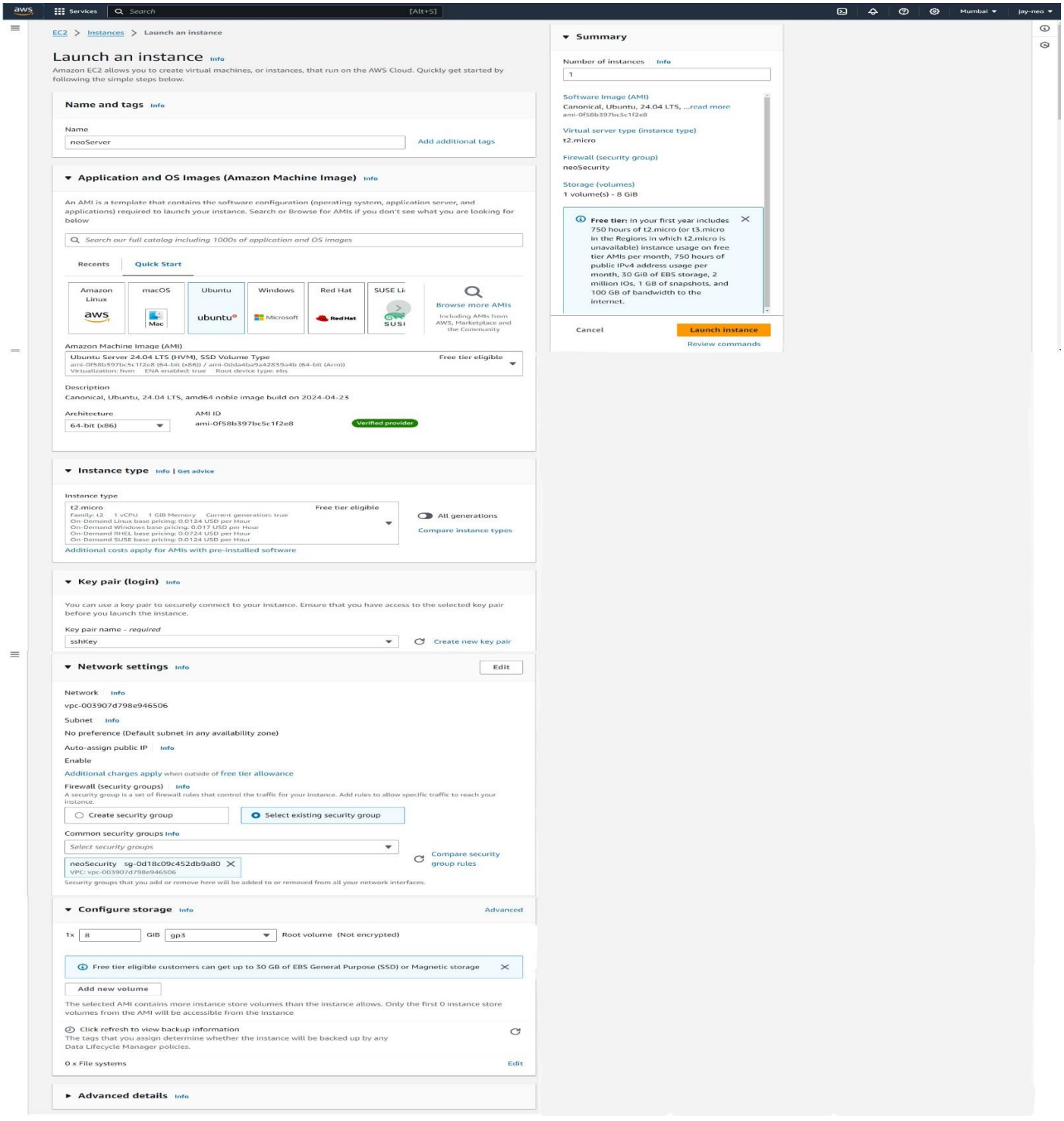
Assignment: 12

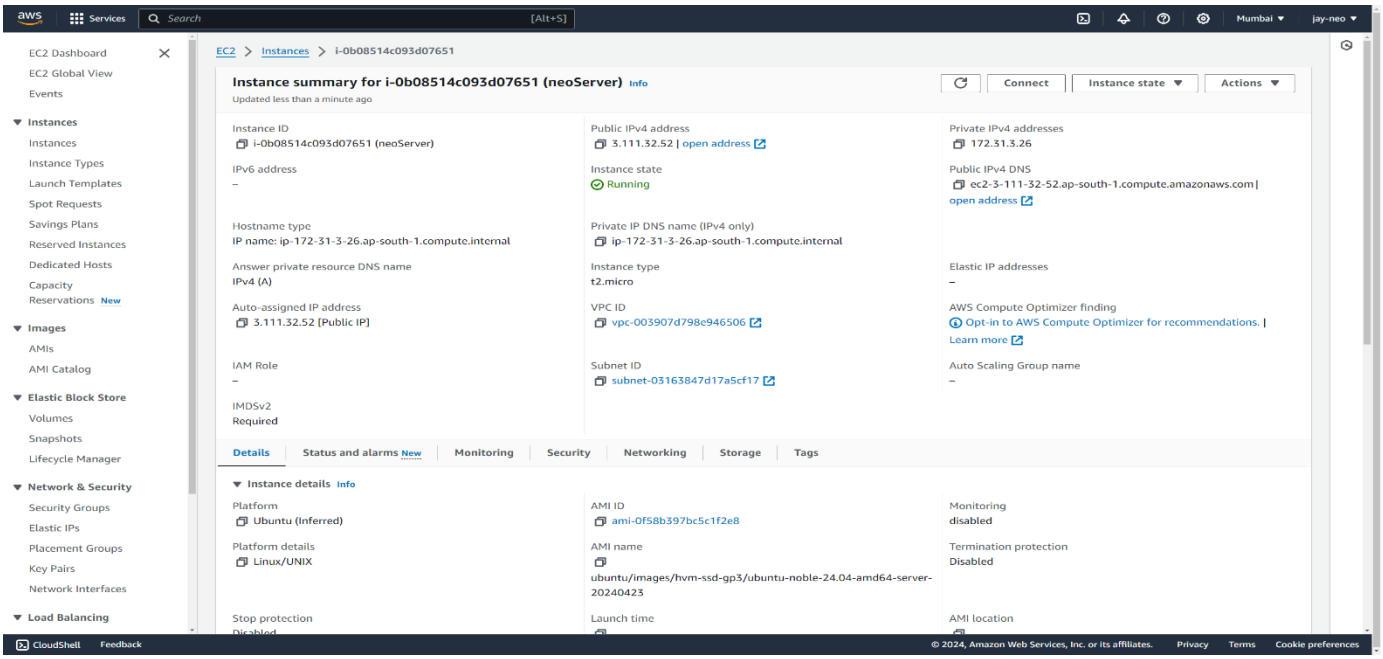
Problem Statement: Deploy and run project in AWS without using port.

Procedure:

Step 1: Launch a new EC2 instance with existing security group created at Assignment-10 and paste the following code in Editor option of Advance details:

```
#!/bin/bash
apt-get update
apt-get install -y nginx
systemctl start nginx
systemctl enable nginx
apt-get install -y git
curl -SL https://deb.nodesource.com/setup_16.x|sudo -E bash -
apt-get install -y nodejs
git clone http://github.com/jay-neo/IT-Workshop-AWS-10.git
npm i
```





Step 2: From local machine terminal connect with the created EC2 instance using ssh client.

```
>> ssh -i ~/Downloads/sshKey.pem ubuntu@3.111.32.52
```

Here 3.111.32.52 is the public IPv4 of the EC2 instance.

Step 3: Go to the directory **/etc/nginx/sites-available** and modify the available file "**default**" by using following commands:

```
>> cd /etc/nginx/sites-available
>> sudo nano default
```

and manipulate the location part exist the "**default**" file

```
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;
}
```

then save the "**default**" file.

Step 4: Restart the nginx server by using following command,

```
>> sudo systemctl restart nginx
```

Step 5: Go the project repository and start the server.

```
>> cd ~/ IT-Workshop-AWS-10
>> node index.js
```

Step 6: Go to the public IPv4 of the EC2 instance without using the port and the project root webpage.