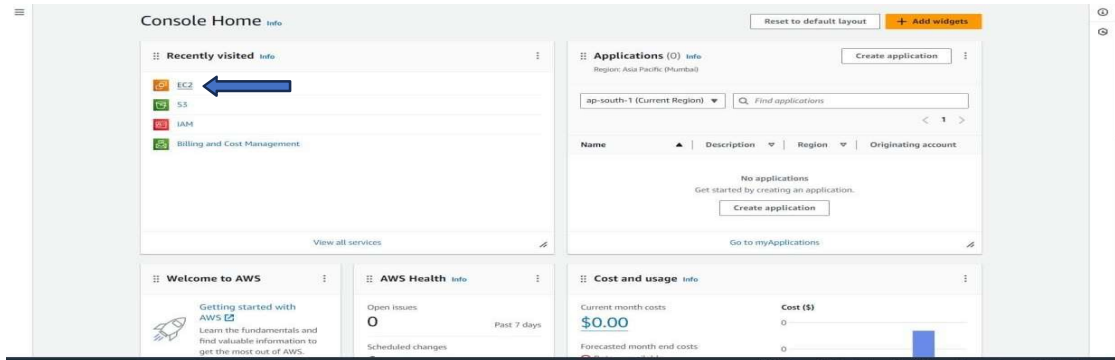


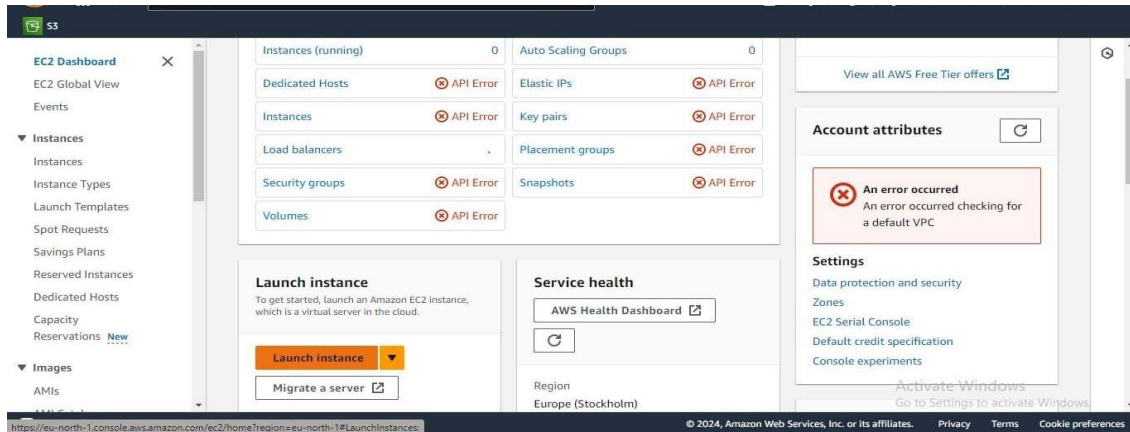
ASSIGNMENT-10

Problem Statement: Deploy a project from GitHub to EC2 by creating a new security group and user data.

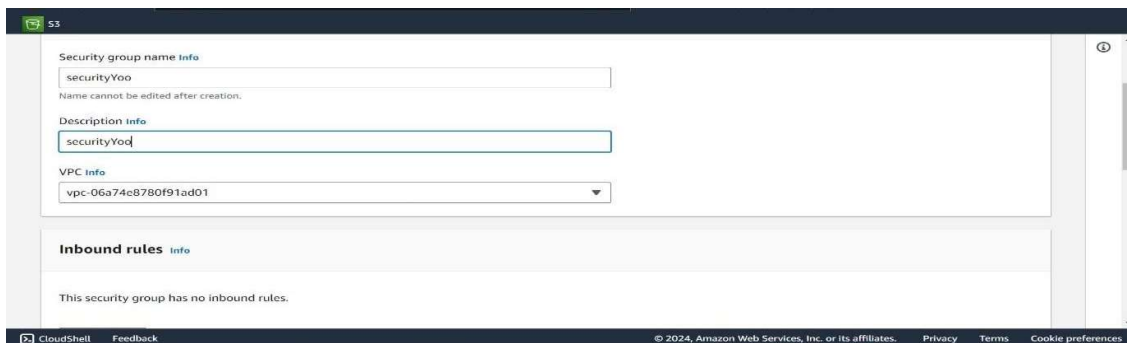
Step 1: Login to the console and click on EC2.



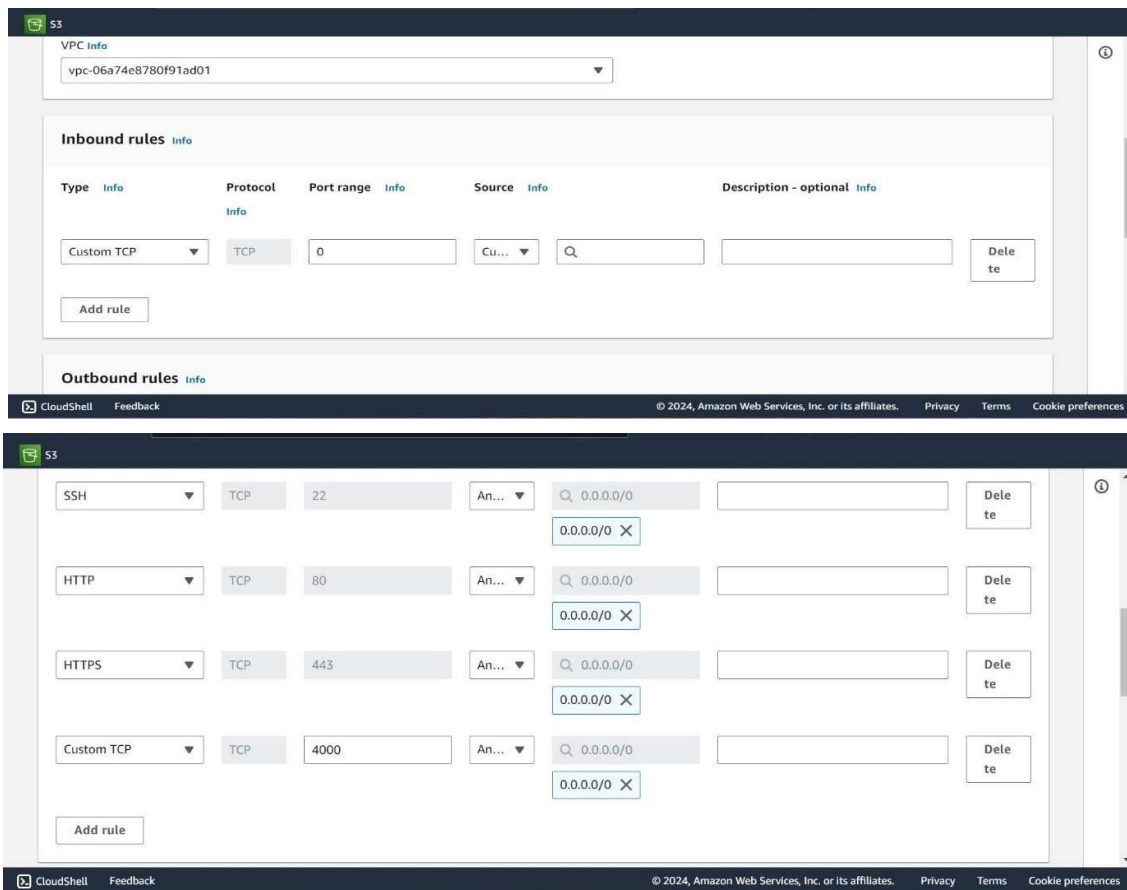
Step 2: Then click on Security Groups



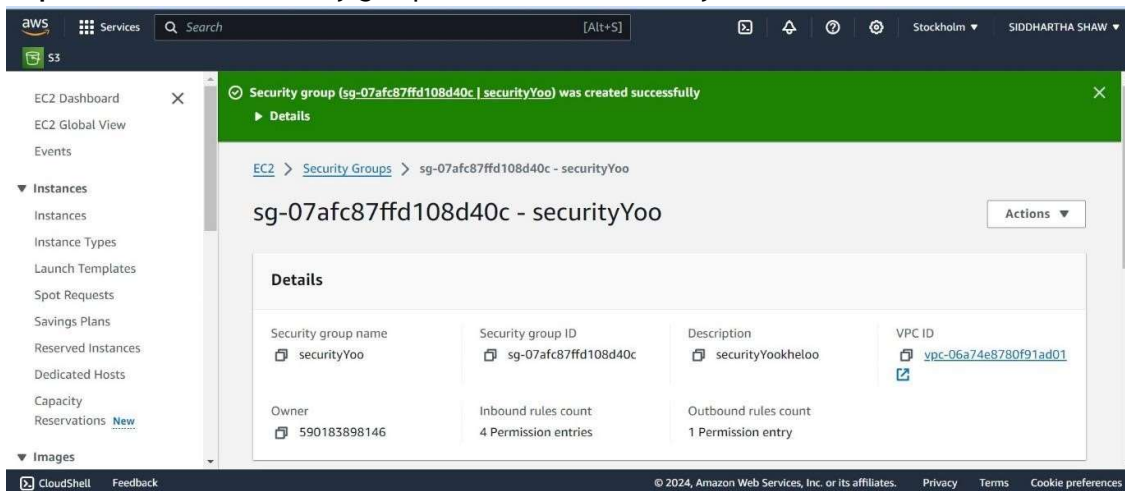
Step 3: Then go to the “Create Security group”



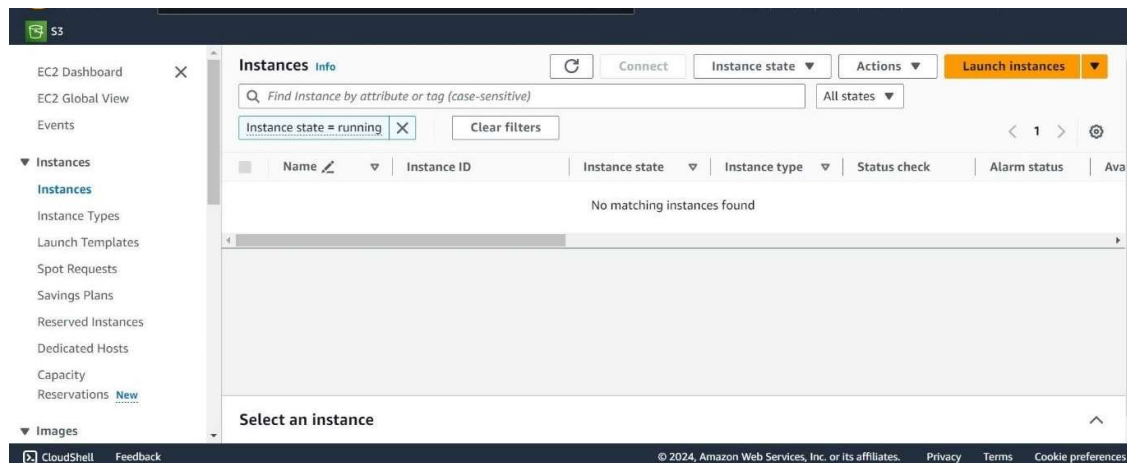
Step 4: Write security group name, add inbound rules and click on “Create security group”.

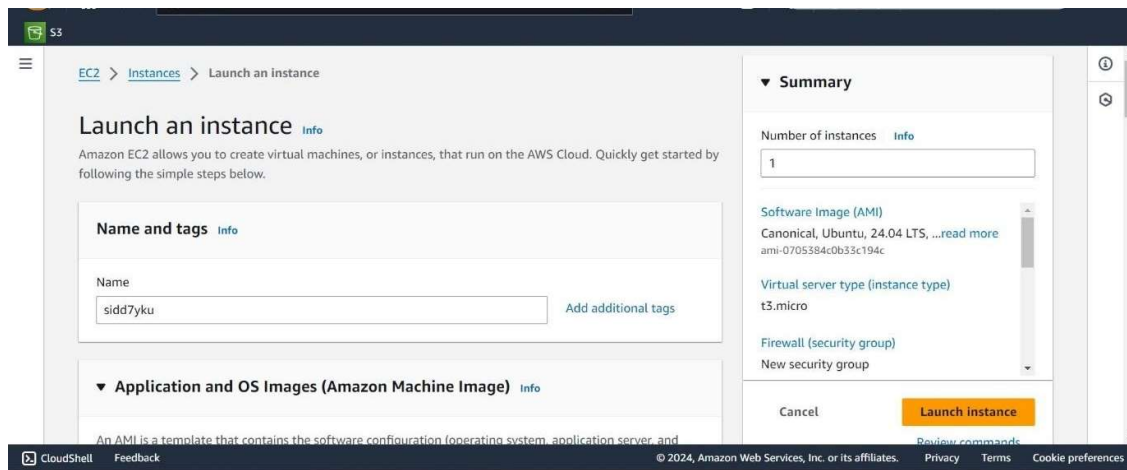


Step 5: after that security group is created successfully.

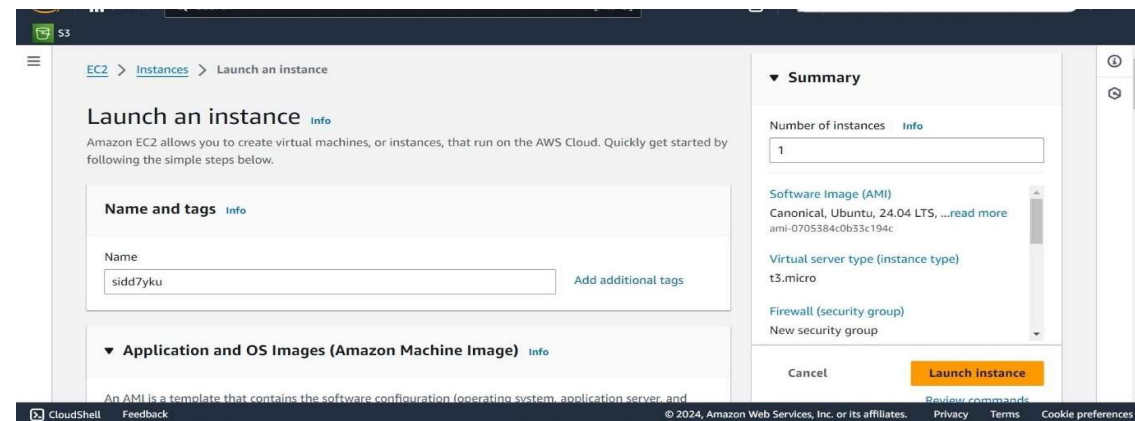
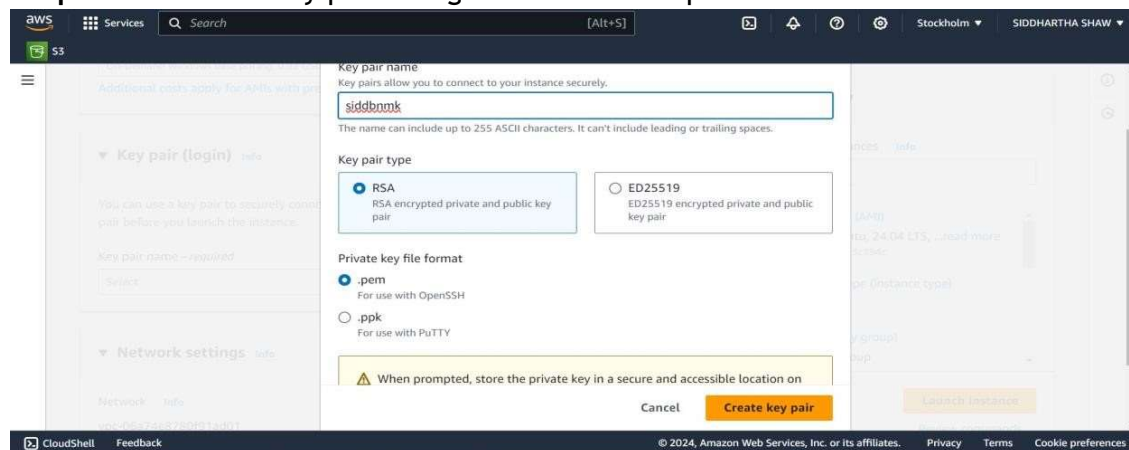


Step 6: The security group is created. Now go to the EC2 and click on “Launch Instances”.

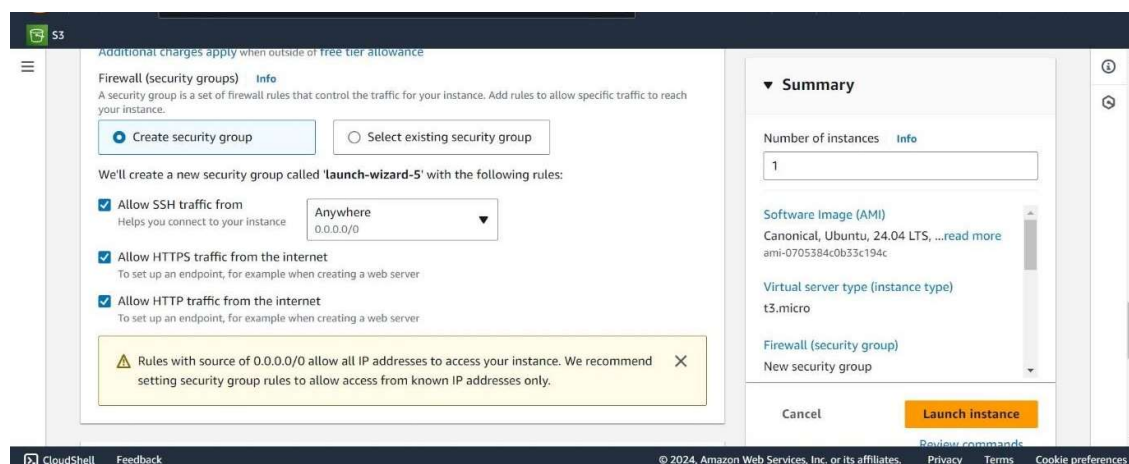




Step 7: create the key pair and go the further steps.



Step 8: select the SSH, HTTPS, HTTP and move it.



Step 9: Select the option “Select existing security group” and choose the newly created security group.

Auto-assign public IP [Info](#)

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☐ Create security group ☒ Select existing security group

Common security groups [Info](#)

Select security groups

launch-wizard-2 sg-03e4e5c633cdced55 X

VPC: vpc-06a74e8780f91ad01

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Compare security group rules

▼ Configure storage [Info](#) [Advanced](#)

Advanced details

Purchasing option

Request a Spot Instance. If you do not request a Spot Instance, EC2 launches an On-Demand Instance by default. Spot Instances are unused EC2 instances that are available for less than the On-Demand price. Spot Instances can be interrupted, so use them for applications with flexible run times and for applications that can be interrupted.

[Learn more](#)

CloudShell Feedback

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Step 10: Then click on the “advanced details” & write the commands and click on “Launch Instances”.

```
#!/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/SIDDHARTHA-yooku/newrepo3.git
cd newrepo3
npm install
node index.js
```

☐ User data has already been base64 encoded

Summary

Number of instances [Info](#)

1

Software Image (AMI)

Canonical, Ubuntu, 24.04 LTS, ...[read more](#)

ami-0705384c0b33c194c

Virtual server type (instance type)

t3.micro

Firewall (security group)

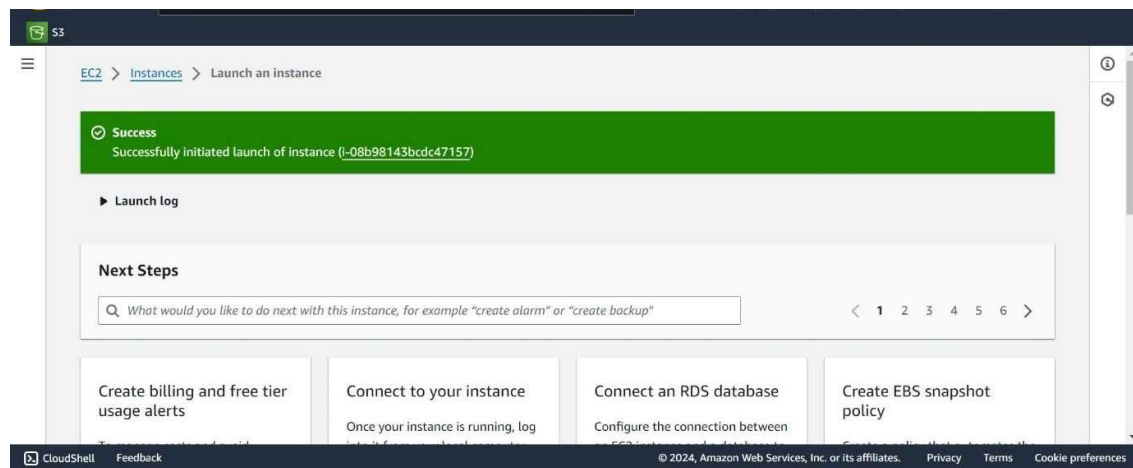
launch-wizard-2

Cancel **Launch instance** [Review commands](#)

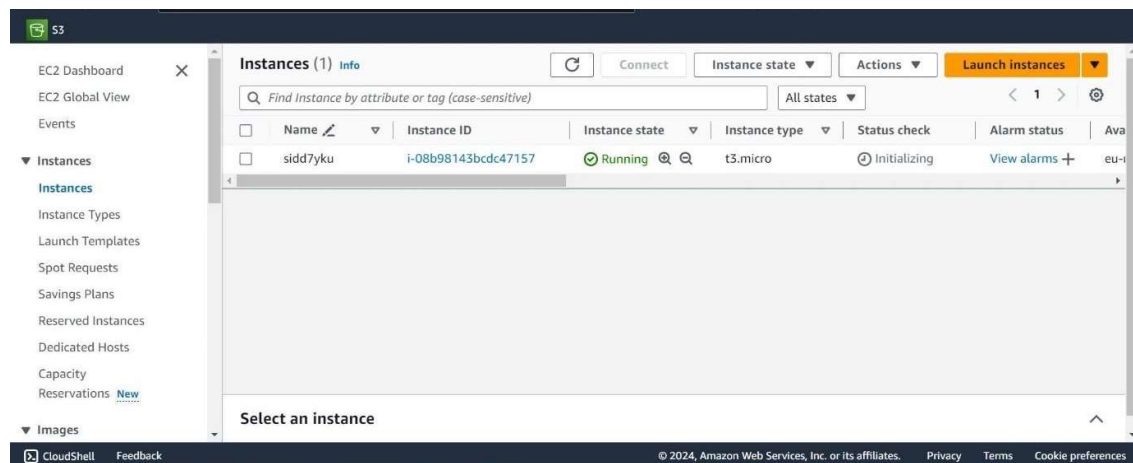
CloudShell Feedback

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Step 11: after that the instance lunch successfully.



Step 12: now we go the view instance and copy the public **ipv4** adresss to check whether it is run or not.



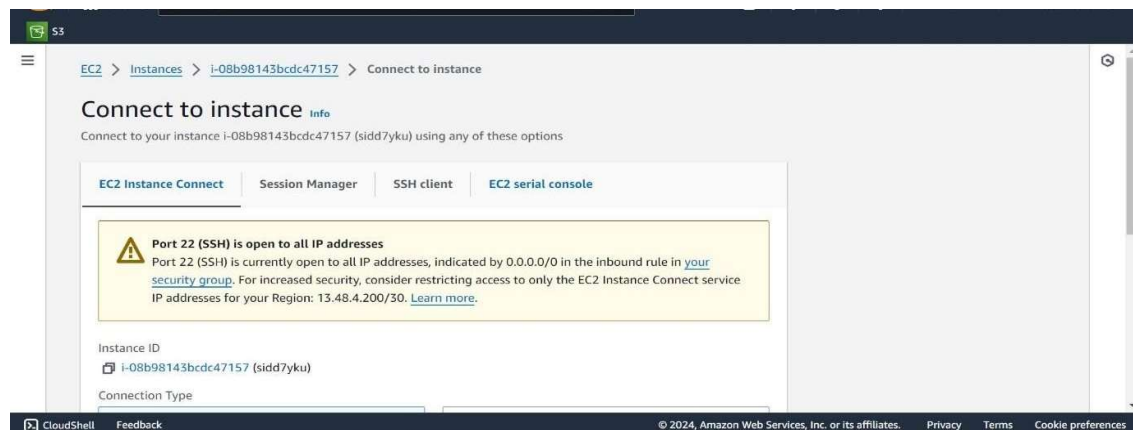
Welcome to nginx!

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 13: if it is showing not running then we use 2nd method whether we go to the “**connect to instance**”..and then type such **imp**** commands that are given below.



```

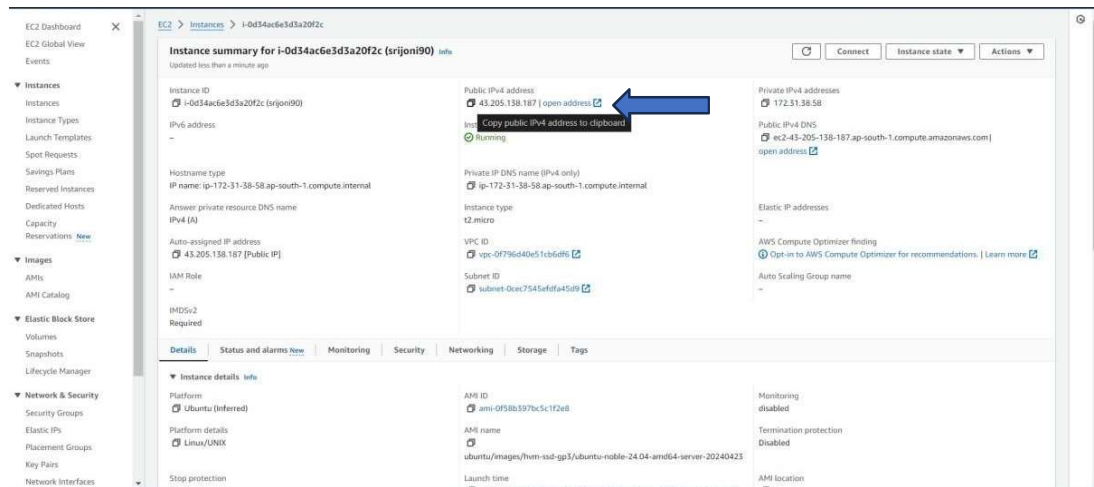
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-24-149:~$ nginx -v
nginx version: nginx/1.24.0 (Ubuntu)
ubuntu@ip-172-31-24-149:~$ nodejs -v
v16.20.2
ubuntu@ip-172-31-24-149:~$ cd /
ubuntu@ip-172-31-24-149:/$ pwd
/
ubuntu@ip-172-31-24-149:/$ ls
bin          boot         etc          lib          lib64        media        newrepo3     proc         run          sbin.usr-is-merged  srv          var
bin.usr-is-merged  dev         home        lib.usr-is-merged  lost+found  mnt          opt          root         sbin        snap         sys          usr
ubuntu@ip-172-31-24-149:/$ cd newrepo3
ubuntu@ip-172-31-24-149:/newrepo3$ cd newrepo3/

```

Step 14: After creating the instances copy public IPV4 address and paste in the new tab with the 4000 port no.



Step 15: A new window will open with the webpage.

