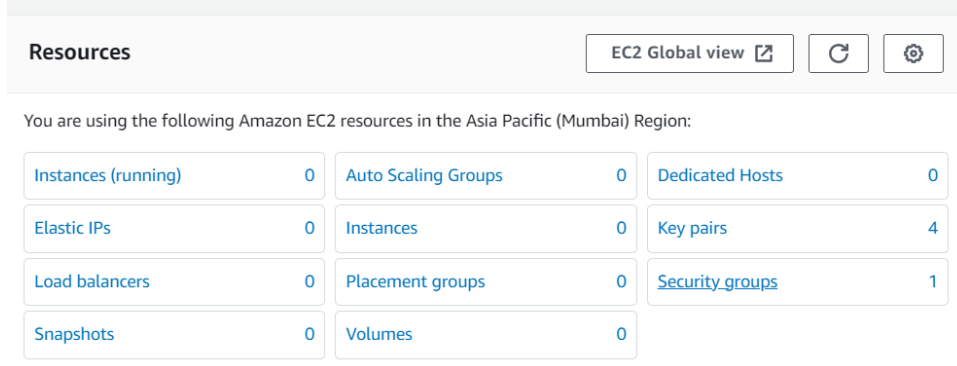


Assignment 10

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

Steps for deploying project from github to EC2:

1. **Sign in.** Sign in to your **GitHub and AWS account.**
2. After that go to **EC2 Dashboard** in your aws and click on **Security groups.**



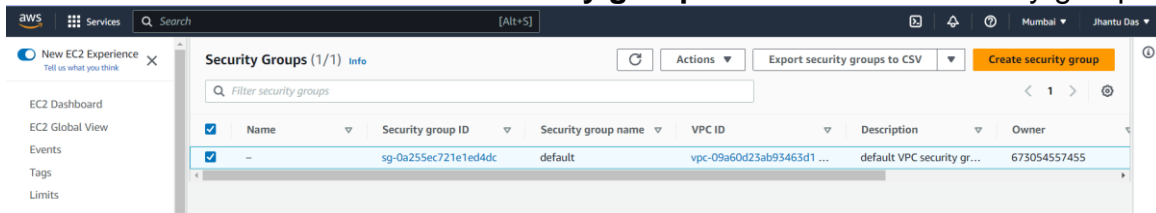
Resources

EC2 Global view

You are using the following Amazon EC2 resources in the Asia Pacific (Mumbai) Region:

Instances (running)	0	Auto Scaling Groups	0	Dedicated Hosts	0
Elastic IPs	0	Instances	0	Key pairs	4
Load balancers	0	Placement groups	0	Security groups	1
Snapshots	0	Volumes	0		

3. After that click on **Create Security group** to create a new security group.

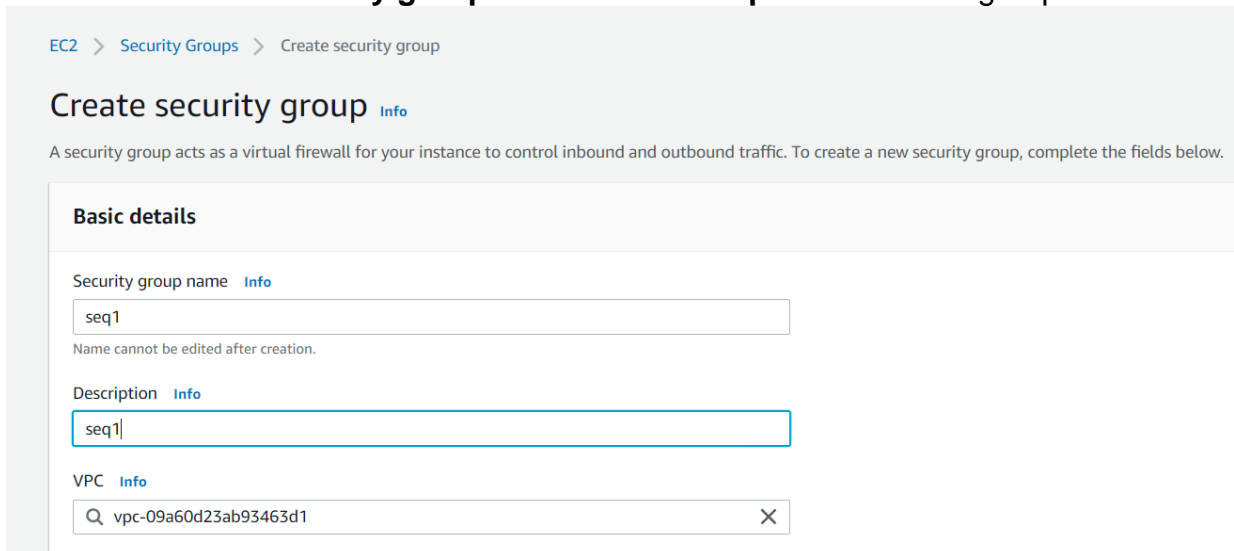


Security Groups (1/1) Info

Filter security groups

<input checked="" type="checkbox"/>	Name	Security group ID	Security group name	VPC ID	Description	Owner
<input checked="" type="checkbox"/>	-	sg-0a25Sec721e1ed4dc	default	vpc-09a60d23ab93463d1 ...	default VPC security gr...	673054557455

4. Now enter **security group name and description** about the group.



EC2 > Security Groups > Create security group

Create security group [Info](#)

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name [Info](#)

seq1

Name cannot be edited after creation.

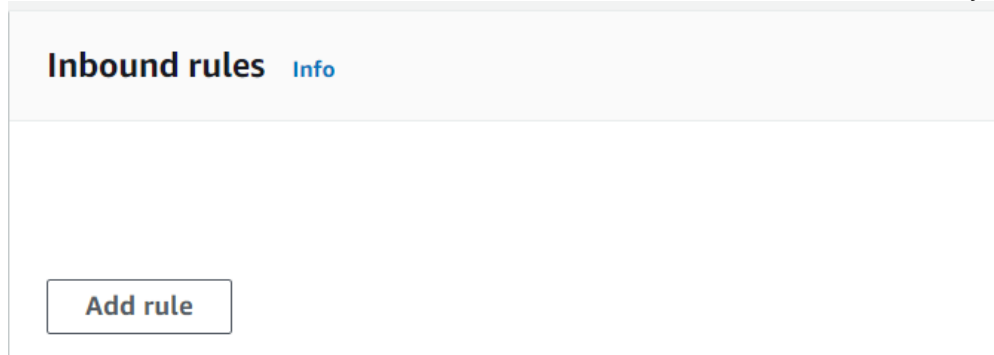
Description [Info](#)

seq1

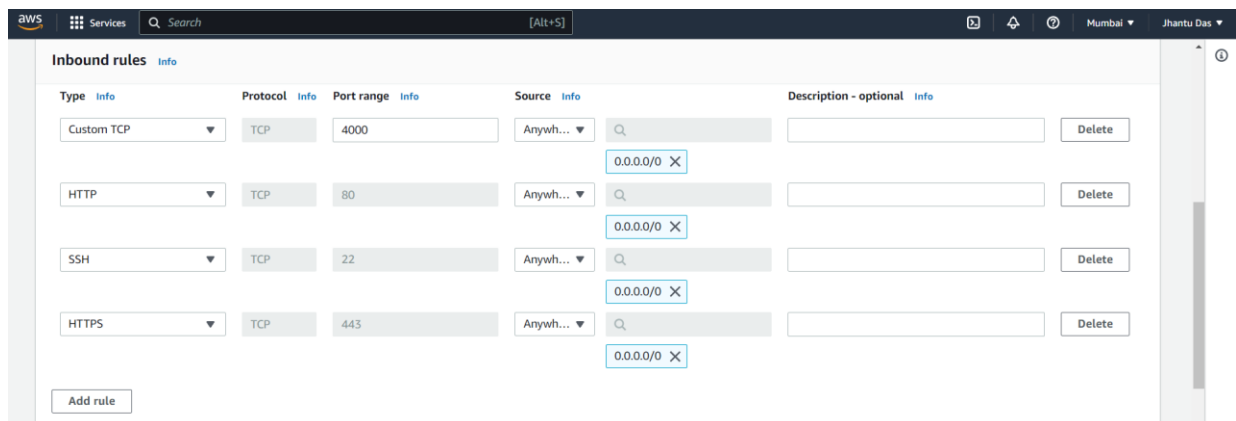
VPC [Info](#)

Q vpc-09a60d23ab93463d1 X

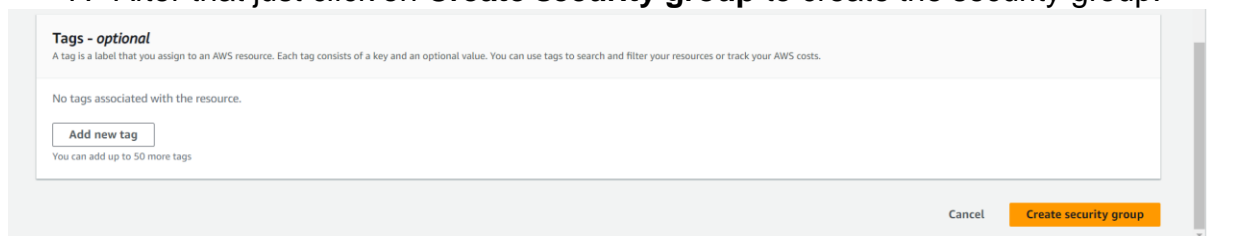
5. In the Inbound click on **add rule** to insert rules for the security group.



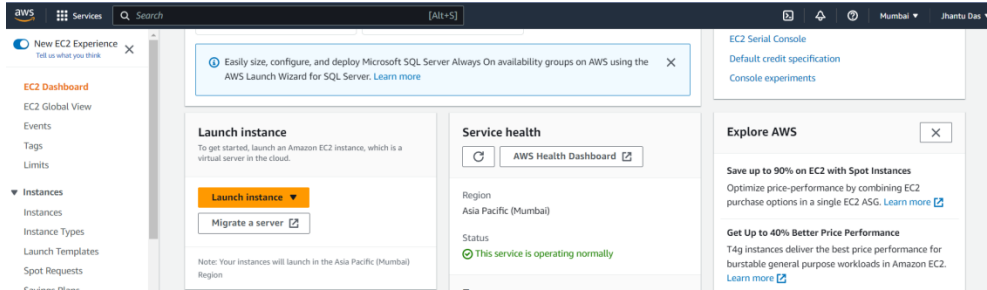
6. In this assignment we are inserting 4 rules **Custom TCP, SSH, HTTP, HTTPS**.



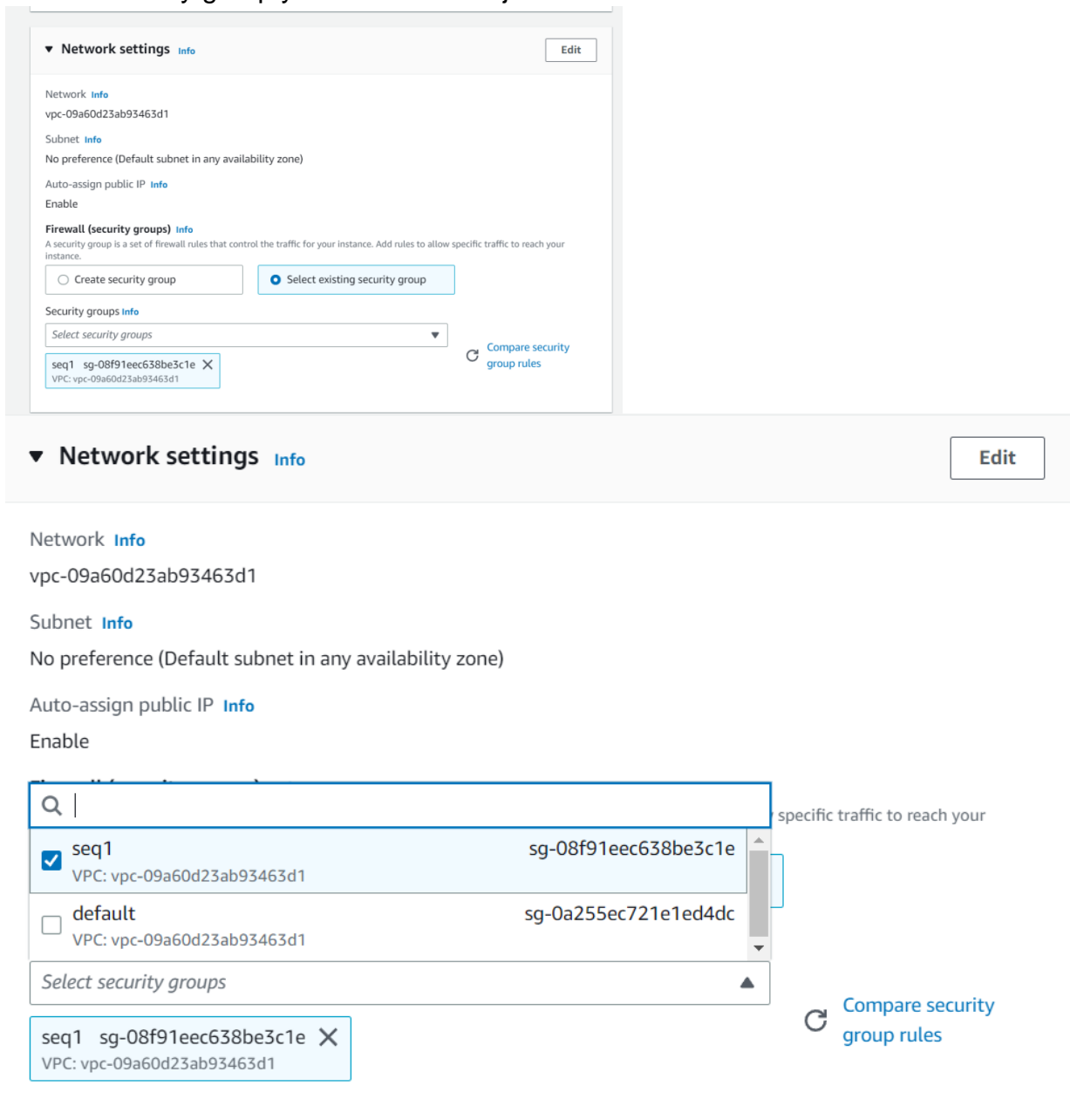
7. After that just click on **Create security group** to create the security group.



8. After that launch an EC2 instance.



9. During launching Select existing security group to select the security group you have created just now.



10. After that click on **Advance details**.

▼ **Configure storage** [Info](#)

Advanced

1x GiB Root volume (Not encrypted)

❗ Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

×

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

0 x File systems [Edit](#)

▼ **Advanced details** [Info](#)

11. In the advance details section, at the bottom we have user data wher we have to write the commands. Which are:-

```
#!/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 https://github.com/Dipanjana2088/AWS-Dip-.git
cd New-Repo1
npm install
node index.js
```

☰

Metadata response hop limit [Info](#)

Select

Allow tags in metadata [Info](#)

Select

User data - optional [Info](#)

Enter user data in the field.

```
#!/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 https://github.com/jhantu07/college-2nd-project.git
cd college-2nd-project
npm install
node index.js
```

☐ User data has already been base64 encoded

▼ **Summary**

Number of instances [Info](#)

1

Software Image (AMI)

Canonical, Ubuntu, 22.04 LTS, ...[read more](#)

ami-02eb7a4783e7e9317

Virtual server type (instance type)

t2.micro

Firewall (security group)

sg1

Storage (volumes)

1 volume(s) - 8 GiB

❗ Free tier: In your first year includes 750

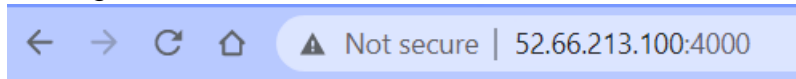
×

Cancel

Launch instance

[Review commands](#)

12. And then launch the instance.
13. Now, before starting the server we have to add port number as in index.js file the port is 4000.so we need to add that.
14. Now, copy that ec2 IPv4 address and paste it in a new tab with : **4000** and by clicking we can run the website.



Hello Everyone im here for you hola