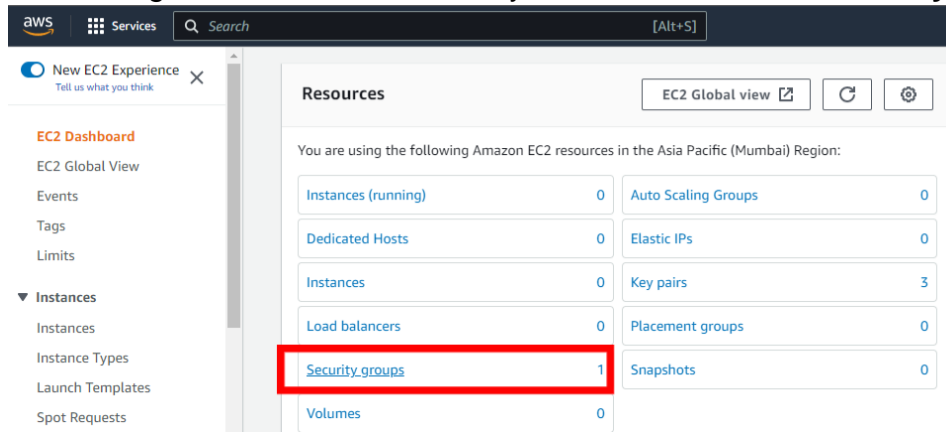


Assignment 10

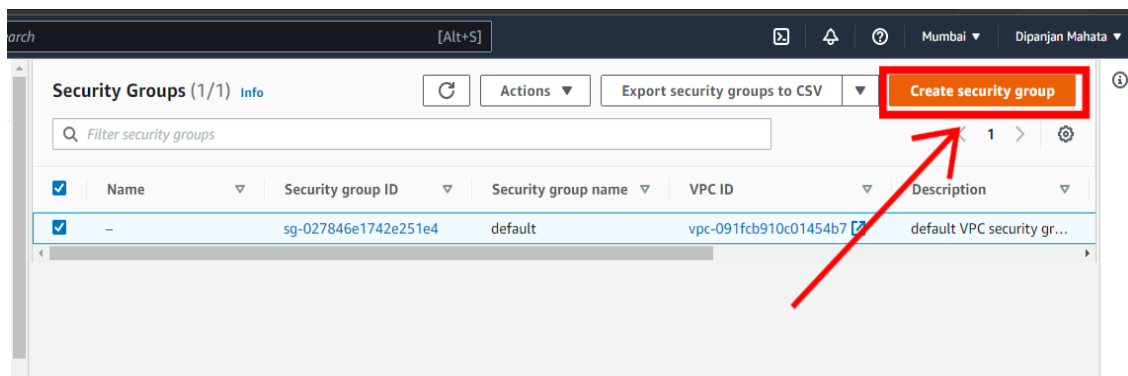
Deploy a project from GitHub to EC2 by creating new security group and user data.

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**.



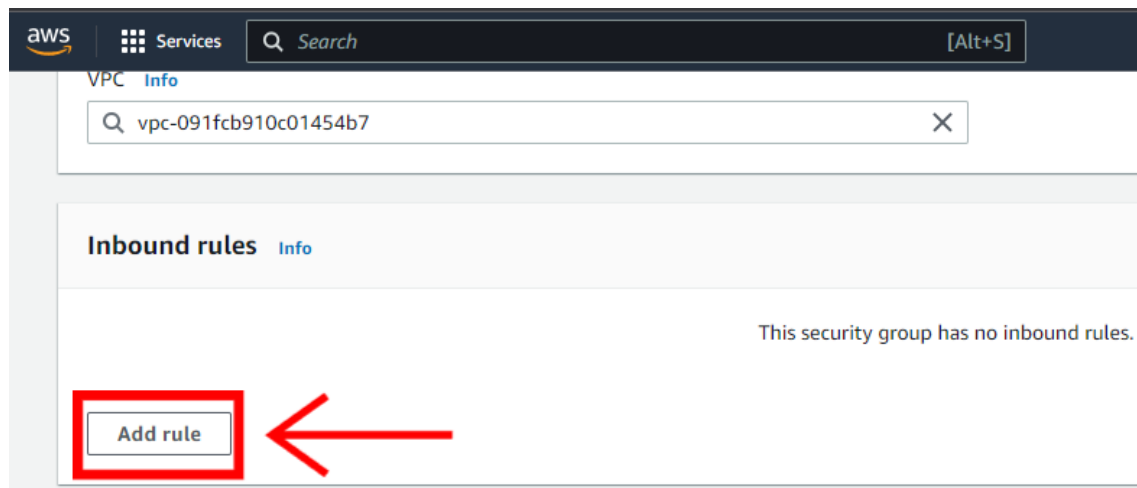
3. After that click on **Create Security group** to create a new security group.



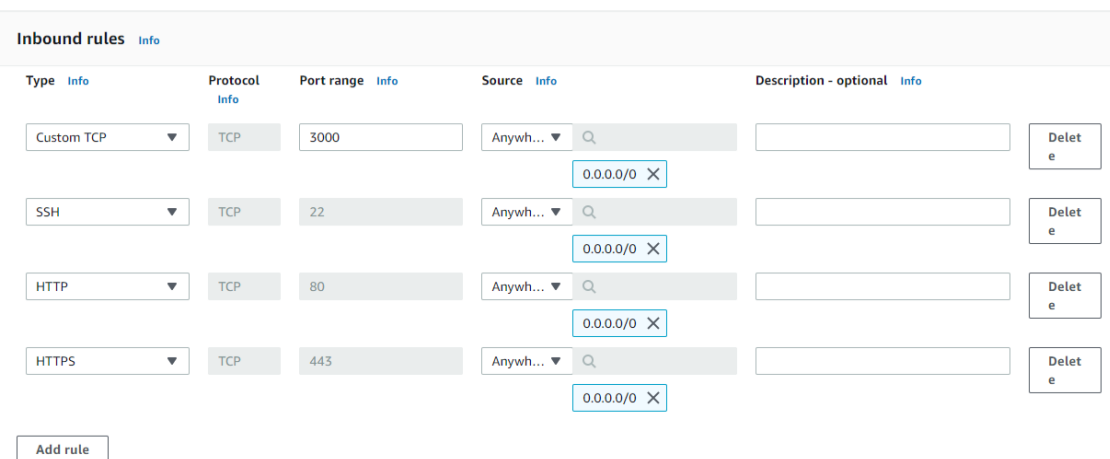
4. Now enter **security group name** and **description** about the group.

The screenshot shows the 'Create security group' form. The 'Basic details' section contains two input fields: 'Security group name' and 'Description'. Both fields are highlighted with red boxes and have red arrows pointing to them. The 'Security group name' field contains the text 'MyWebServerGroup' and the 'Description' field contains the text 'Allows SSH access to developers'. Below these fields is a 'VPC' field with a dropdown menu showing 'vpc-091fcb910c01454b7'.

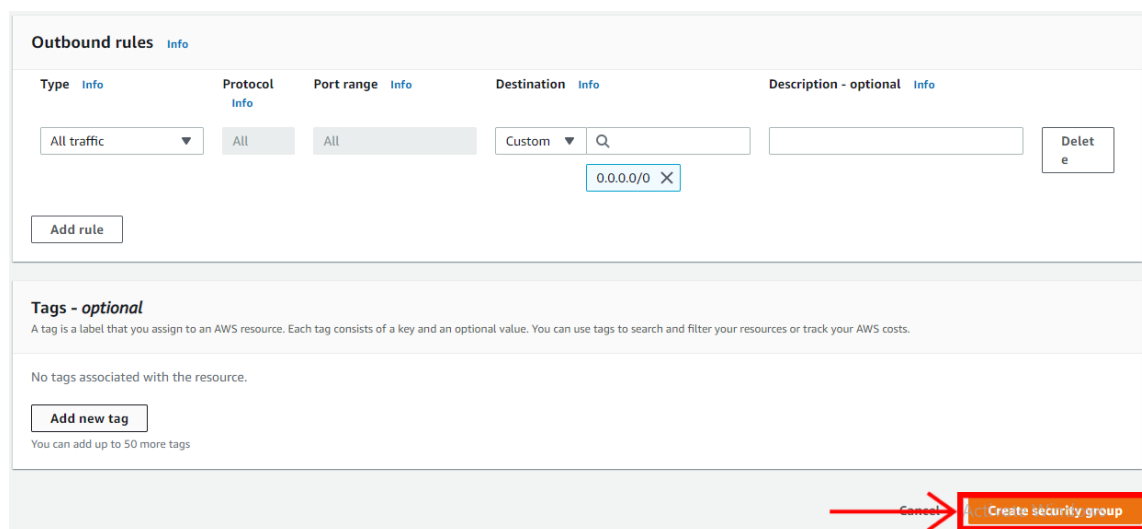
5. In the Inbound click on **add rule** to insert rules for the security group.



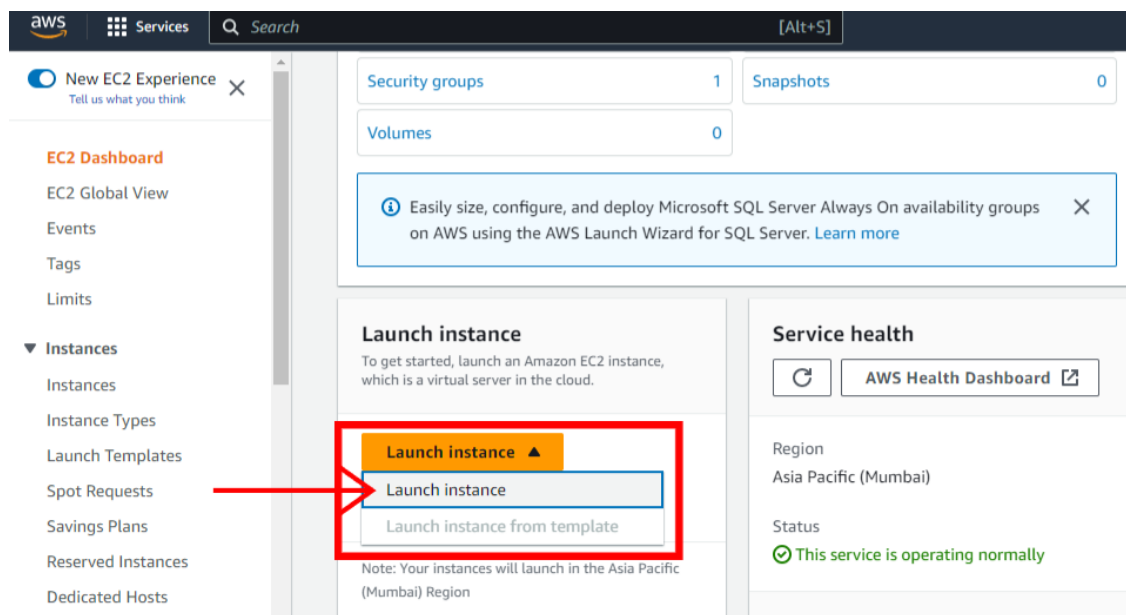
6. In this assignment we are inserting 4 rules **Custom TCP**, **SSH**, **HTTP**, **HTTPS**.



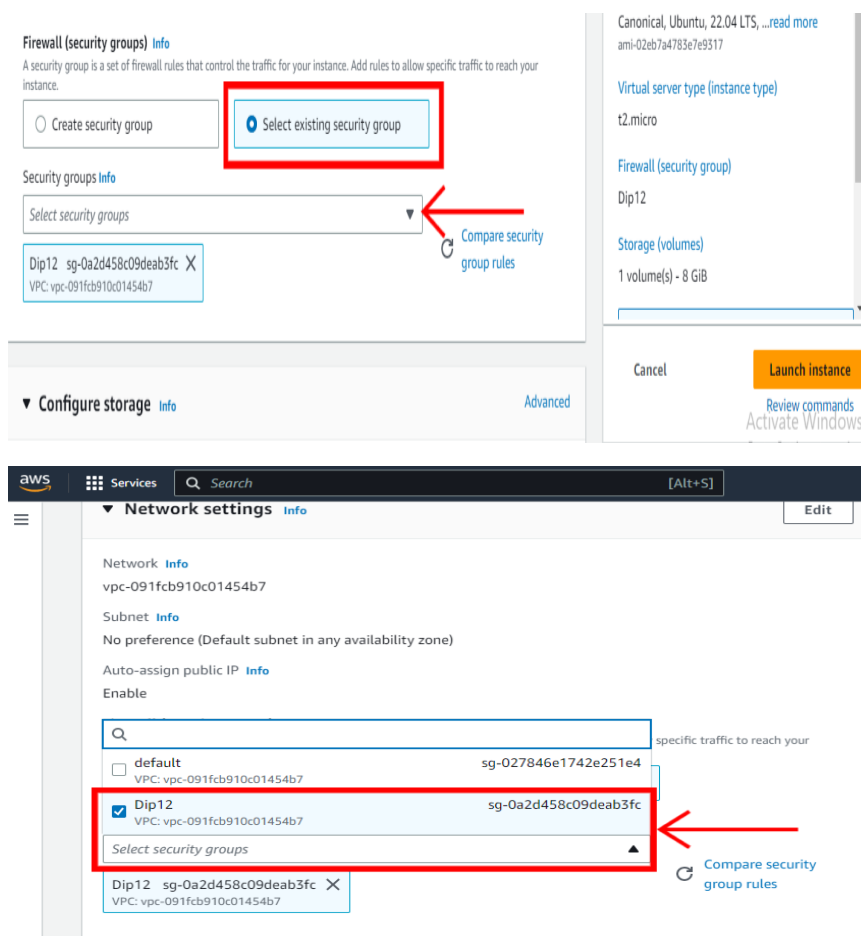
7. After that just click on **Create security group** to create the security group.



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)

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[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 where 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.

☐ User data has already been base64 encoded

▼ **Summary**

Number of instances [Info](#)

Software Image (AMI)

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

ami-02eb7a4783e7e9317

Virtual server type (instance type)

t2.micro

Firewall (security group)

Dip12

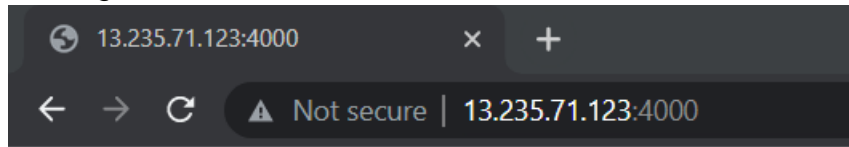
Storage (volumes)

1 volume(s) - 8 GiB

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[Cancel](#) [Launch instance](#) [Review comments](#)

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 mckvie