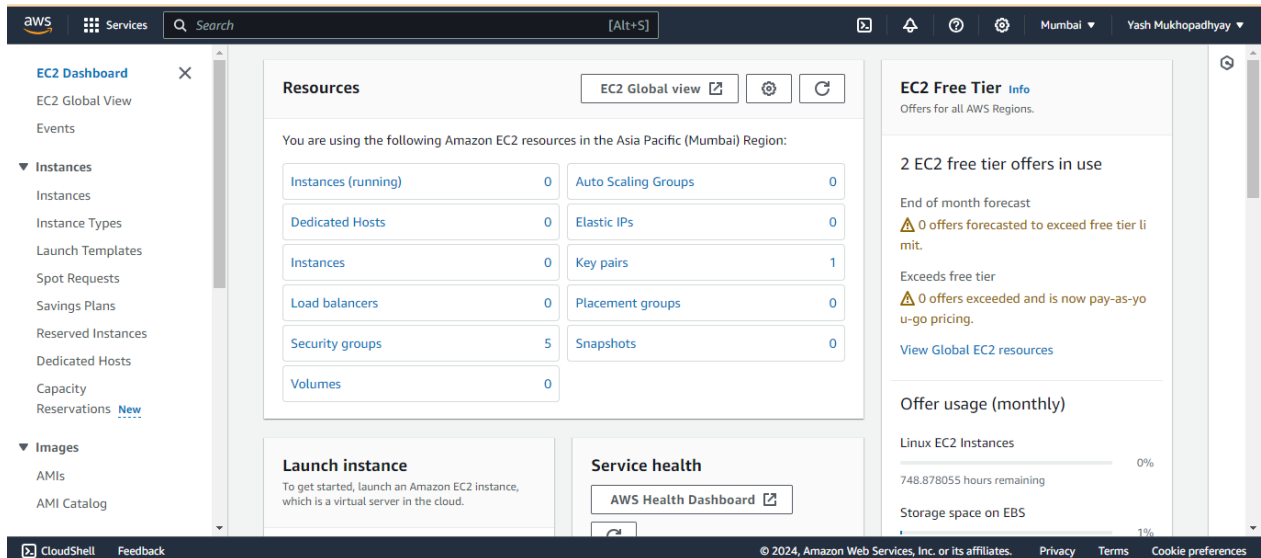


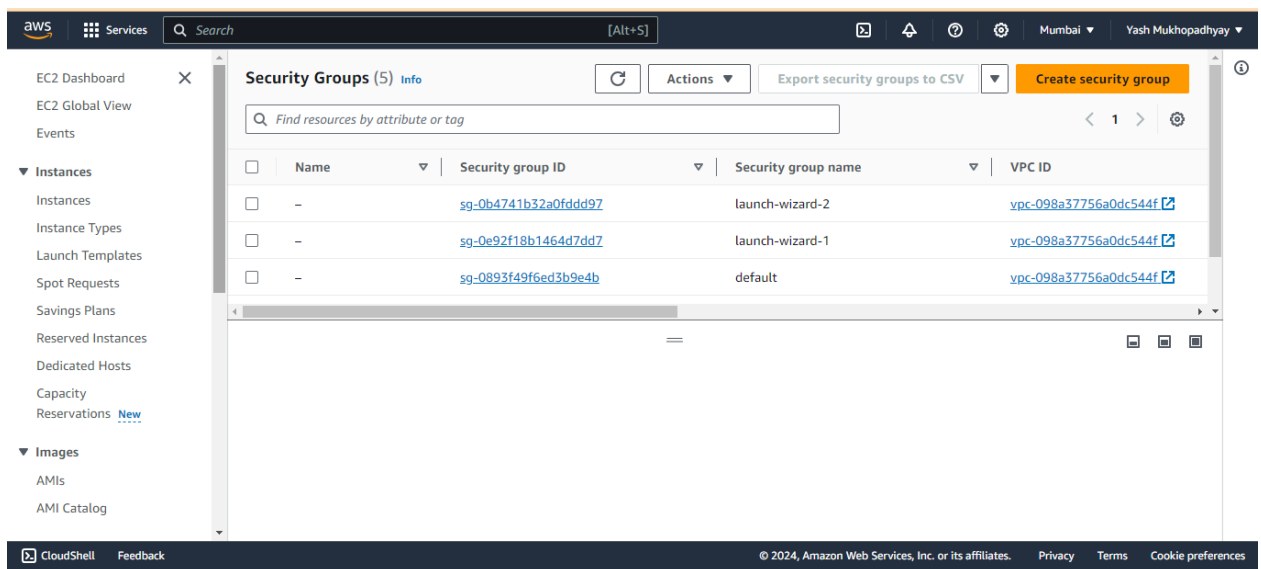
Assignment No:- 10

Deploy a project from Github to EC2 instance by creating your own security group.

1. Sign up for an AWS account, search for 'EC2' then click on it.
2. In EC2 Dashboard, Under Network & Security click on Security Groups.



3. Click on 'Create security group'.



4. Fill up the Basic details, Security group name 'DSNEW' and Description also "DSNEW'.

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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](#)

DSNEW

Name cannot be edited after creation.

Description [Info](#)

DSNEW

VPC [Info](#)

vpc-098a37756a0dc544f

Inbound rules [Info](#)

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5. In Inbound Rules Section click on Add rule then add three rules - HTTP, HTTPS and Custom TCP of port range 4000.

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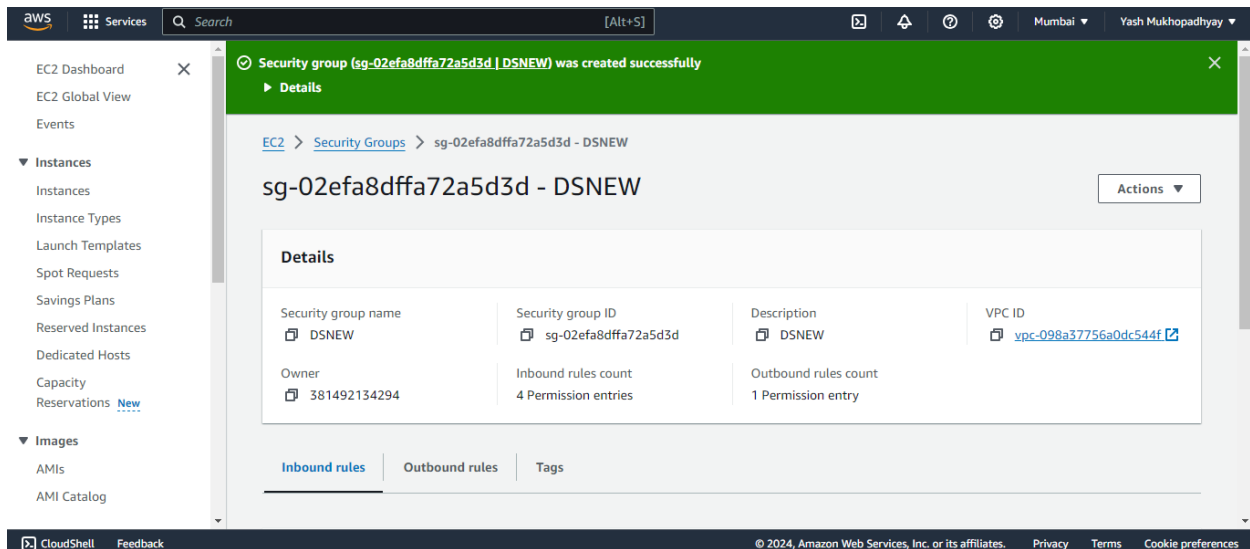
Inbound rules [Info](#)

Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info
SSH	TCP	22	Any...	0.0.0.0/0 X
HTTP	TCP	80	Any...	0.0.0.0/0 X
HTTPS	TCP	443	Any...	0.0.0.0/0 X
Custom TCP	TCP	4000	Any...	0.0.0.0/0 X

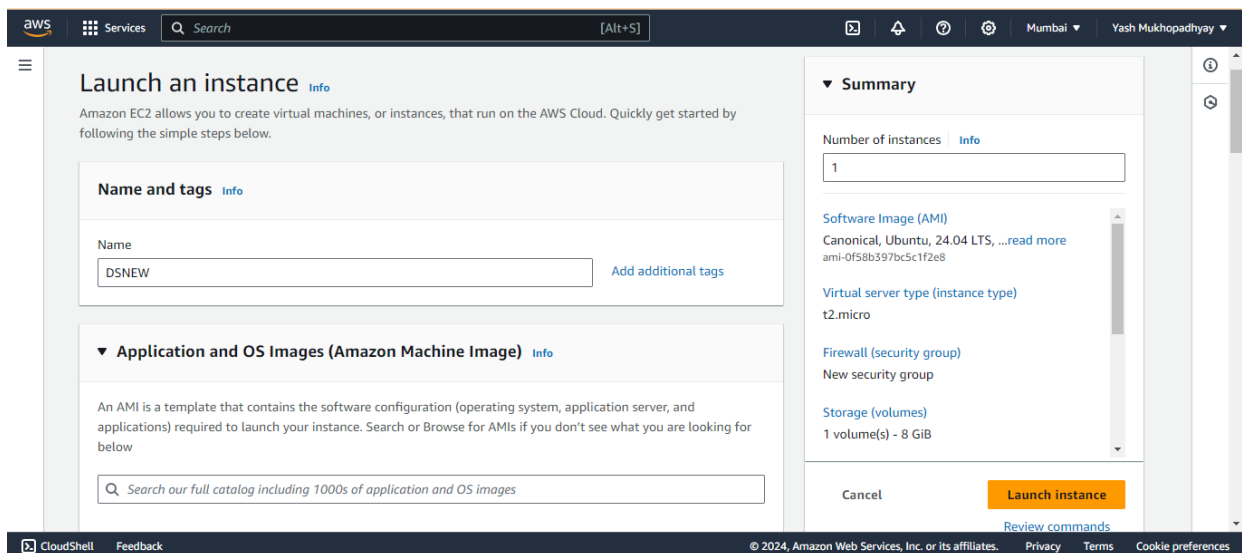
[Add rule](#) [Delete](#)

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6. Click on Create then new Security group name 'DSNEW' is created.



7. Then launch a new instance NAME 'DSNEW' and select or create a new key-pair then under network settings select the existing network and choose 'DSNEW' from drop Down.



User data - optional [Info](#)

Upload a file with your user data or enter it in the field.

Choose file

```
#!/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/yash2870/sample.git
cd sample
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-0f58b397bc5c1f2e8

Virtual server type (instance type)

t2.micro

Firewall (security group)

DSNEW

Storage (volumes)

1 volume(s) - 8 GiB

Cancel

Launch instance

[Review commands](#)

9. Then open the created EC2 instance and copy the PUBLIC IPV4 address and paste in the URL address bar and add ':4000' at the end of the IPV4 address as a port number.

aws

Services

Search

[Alt+S]

Mumbai

Yash Mukhopadhyay

EC2 Dashboard

EC2 Global View

Events

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations [New](#)

Images

AMIs

AMI Catalog

EC2 > Instances > i-0d8fcad3b8501091f

Instance summary for i-0d8fcad3b8501091f (DSNEW) [Info](#)

Updated less than a minute ago

Public IPv4 address copied

13.201.82.44 | [open address](#)

Instance ID

i-0d8fcad3b8501091f (DSNEW)

IPv6 address

-

Hostname type

IP name: ip-172-31-13-146.ap-south-1.compute.internal

Answer private resource DNS name

IPv4 (A)

Auto-assigned IP address

13.201.82.44 [Public IP]

Instance state

Running

Private IP DNS name (IPv4 only)

ip-172-31-13-146.ap-south-1.compute.internal

Instance type

t2.micro

VPC ID

vpc-098a37756a0dc544f

Private IPv4 addresses

172.31.13.146

Public IPv4 DNS

ec2-13-201-82-44.ap-south-1.compute.amazonaws.com

[open address](#)

Elastic IP addresses

-

AWS Compute Optimizer finding

[Opt-in to AWS Compute Optimizer for recommendations.](#)

CloudShell

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Hello mckv

INFERENCES:-

Deploying a project from GitHub to an EC2 instance involves creating a custom security group named 'DSNEW' with inbound rules for HTTP, HTTPS, and a custom TCP port (4000). Launching an EC2 instance named 'DSNEWA' using this security group ensures network security alignment. Including user data with bash code during instance launch streamlines setup and configuration. Accessing the deployed project via the EC2 instance's public IPv4 address, appended with ':4000', completes the deployment process.