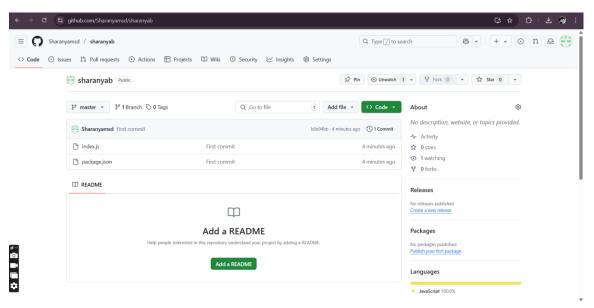
# **Assignment No:10**

<u>Title:</u> Deploy a project from GitHub to EC2 by creating a new security group and user data.

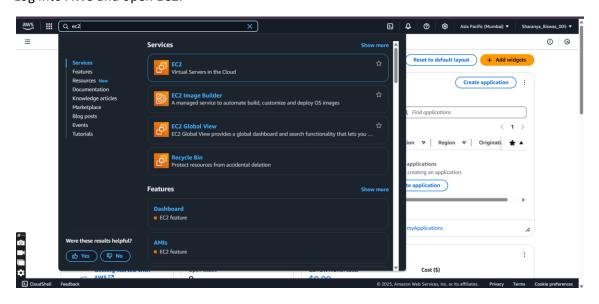
### Step-1:

Upload required files to github



## Step-2:

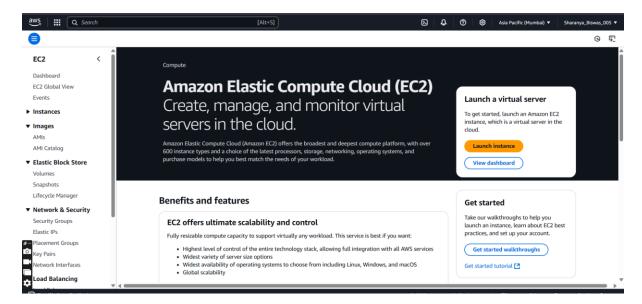
Log into AWS and open EC2.



# Step-3:

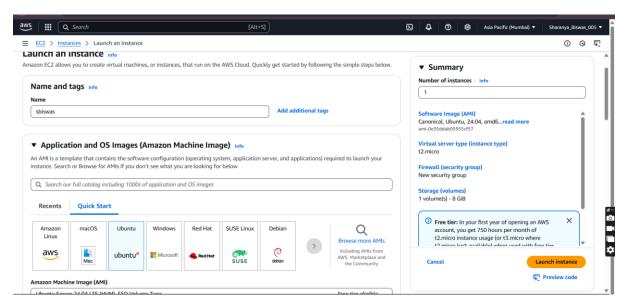
Click on launch instance.

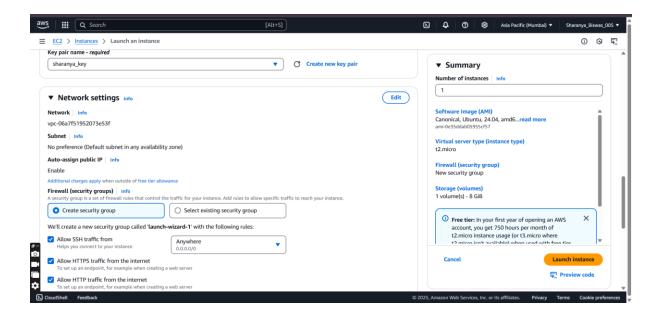
Name:Sagnick Das Class:CSE(DS)/22/038



### Step-4:

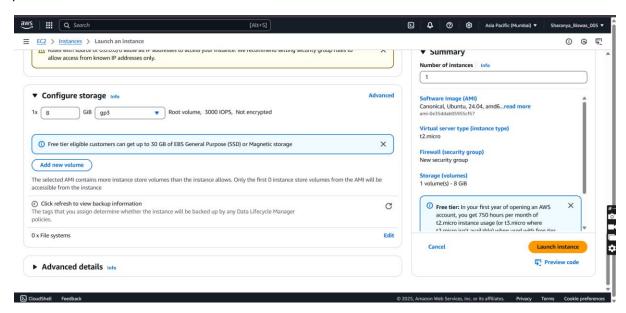
Give a name to the instance and select the operating system then check the 3 boxes to allow SSH, HTTP and HTTPS traffics and click launch instance.

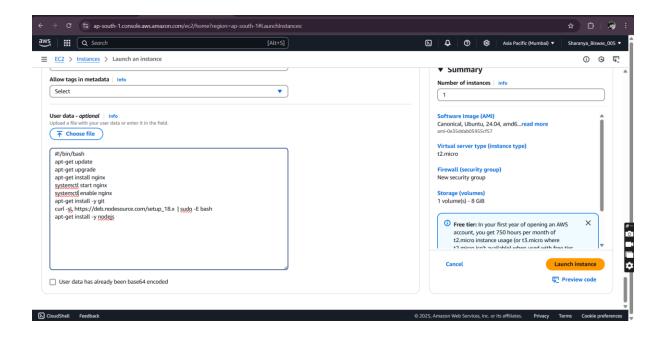




#### Step-5:

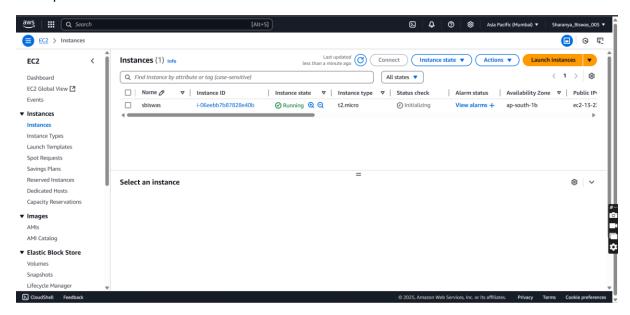
Click on the advance details and scroll down to the user data and run all required commands then press launch instance.





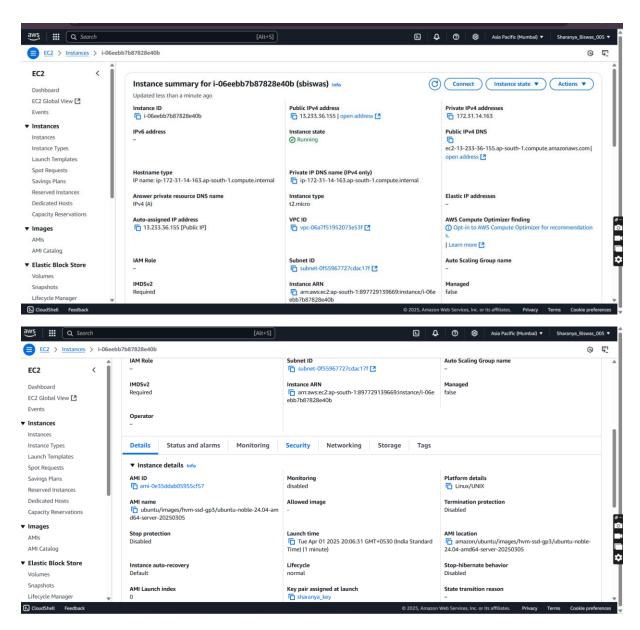
### Step-6:

Now open instances and click of the instance Id of the instance.



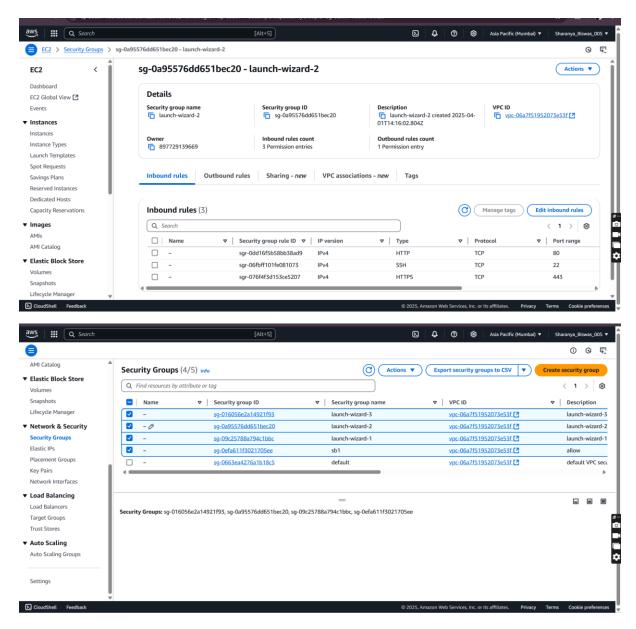
## Step-7:

Now scroll down and open security then click on the link under security groups.



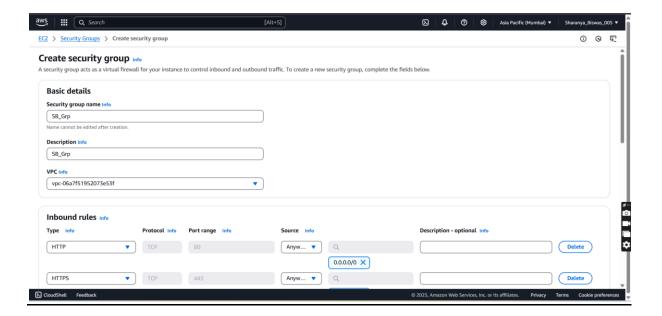
### Step-8:

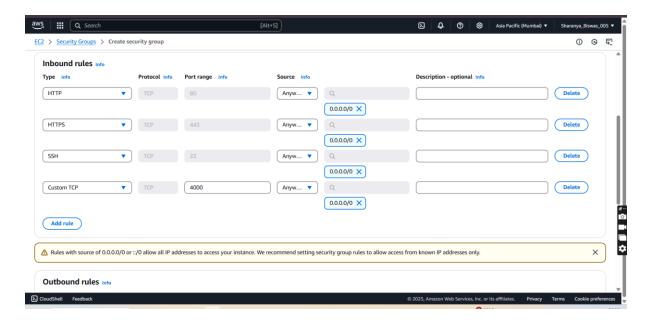
Click on the Security Groups in above and select all the security groups except the default one then go to actions and delete them.



## Step-9:

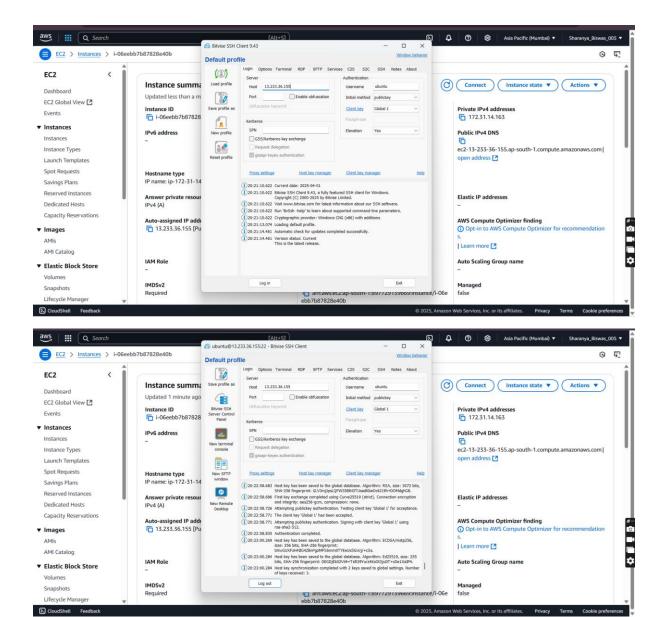
Click on Create security group then give a name and description of the security group and set up all inbound rules. Include SSH, HTTP, HTTPS and custom TCP then click on save rules.





# **Step-10:**

Open Bitvise and paste the IP address of the instance in the host and give required credentials in authentication and click log in .



# **Step-11:**

After then open a new terminal window and clone the git repository using command git clone link of the repository.

#### **Step-12:**

Change the directory to the github repository name and install required dependencies using command npm install.

```
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANITY, 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_-172-31-14-163:-% git clone https://github.com/Sharanyamsd/sharanyab.git
Cloning into 'sharanyab'...
remote: Enumerating objects: 4, done.
remote: Contring objects: 108% (4/4), done.
remote: Compressing objects: 108% (4/4), done.
remote: Compressing objects: 108% (4/4), done.
remote: Compressing objects: 108% (4/4), done.
remote: Total 4 (delta e), reused 4 (delta e), pack-reused 0 (from e)
Receiving objects: 108% (4/4), done.
ubuntu@ip_-172-31-14-163:-% so d sharanyab
ubuntu@ip_-172-31-14-163:-% so d sharanyab
ubuntu@ip_-172-31-14-163:-% sharanyab$ is
index.; is package.;son
ubuntu@ip_-172-31-14-163:-/sharanyab$ npm install
added 227 packages, and audited 228 packages in 13s

25 packages are looking for funding
run 'npm fund' for details

found 0 vulnerabilities
npm notice
```

#### **Step-13:**

Then start the server using command node index.js.

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```
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
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-172-31-14-163:~$ git clone https://github.com/Sharanyamsd/sharanyab.git
Cloning into 'sharanyab'...
ubuntu@ip-172-31-14-163:~$ ls
sharanyab
ubuntu@ip-172-31-14-163:~$ cd sharanyab
ubuntu@ip-172-31-14-163:~/sharanyab$ ls
index.js package.json
ubuntu@ip-172-31-14-163:~/sharanyab$ npm install
added 227 packages, and audited 228 packages in 13s
25 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities
npm notice
npm notice New major version of npm available! 10.8.2 -> 11.2.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.2.0
npm notice To update run: npm install -g npm@11.2.0
npm notice
ubuntu@ip-172-31-14-163:~/sharanyab$ node index.js
Started server
```

#### **Step-14:**

Now copy the IPv4 address of the instance and paste it and the put the port like this IP address:Port here IP address:4000 .

