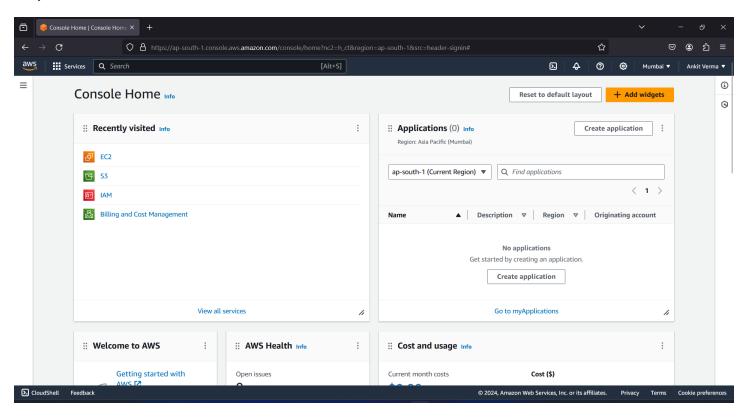
# **Assignment: 9**

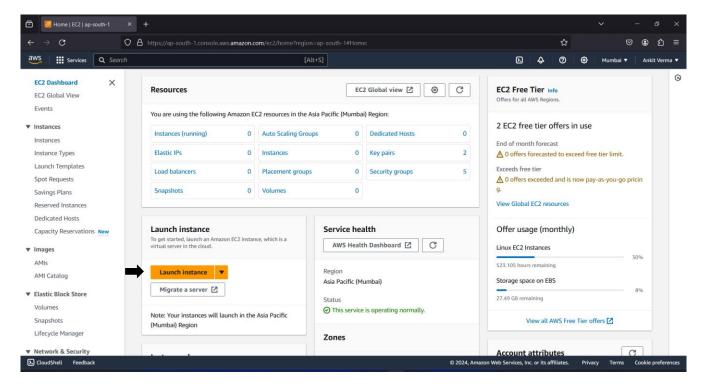
**Problem Statement:** Deploy a project from GitHub to EC2.

>>> The steps to deploy the project:-

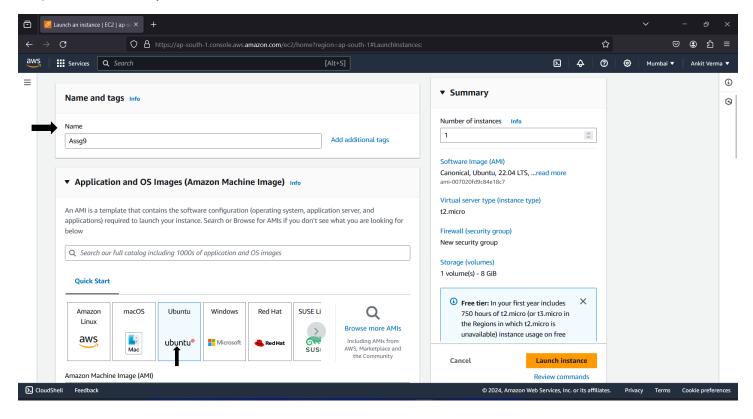
#### Step 1: Select EC2.



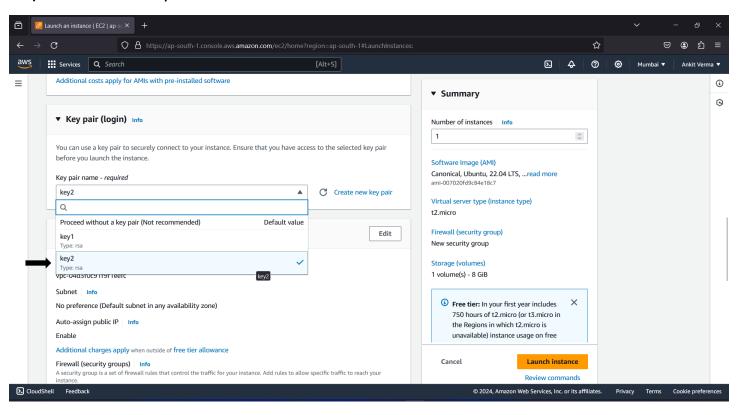
Step 2: Click on 'Launch Instance'.



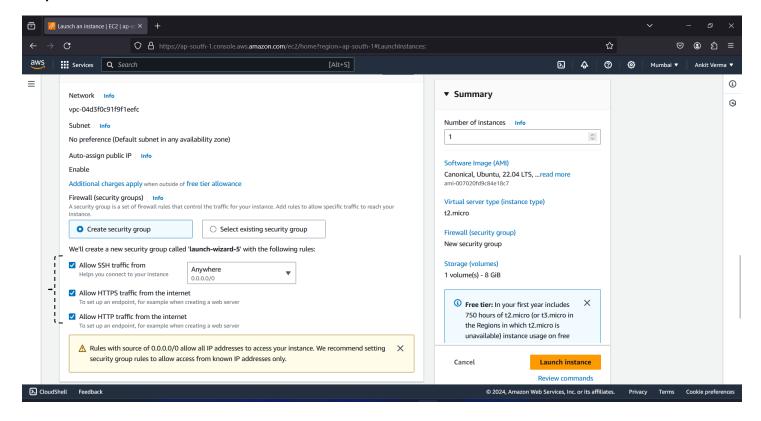
# Step 3: Give a unique name to the instance and select Ubuntu.



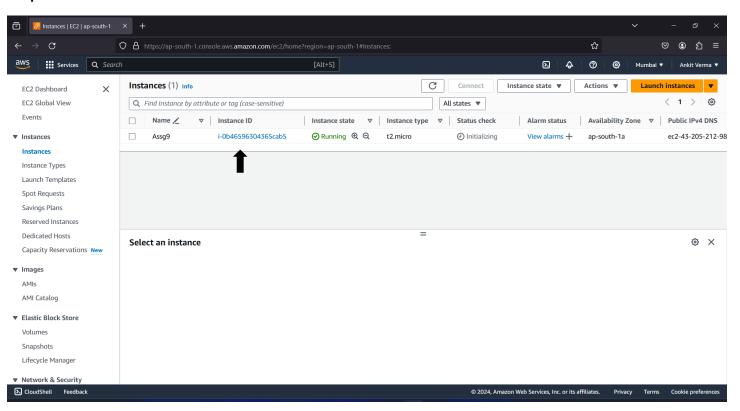
# Step 4: Select the key from the list or create a new one.



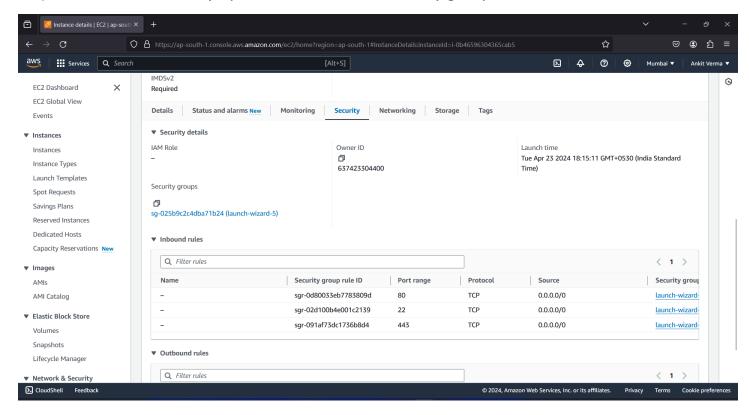
# Step 5: Check all the 3 check boxes. Then click on Launch Instance.



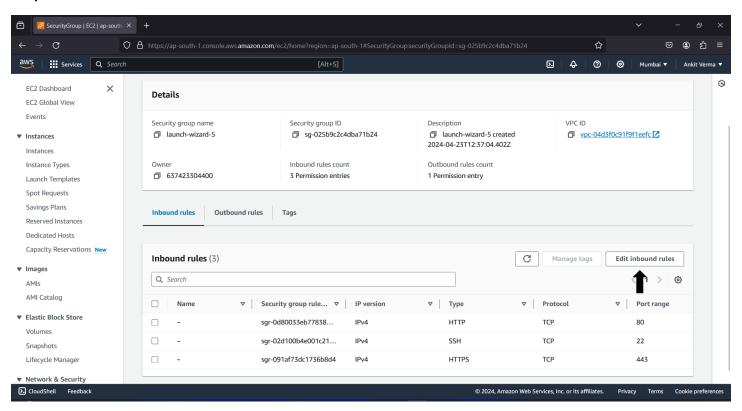
# Step 6: Click on instance id to enter into the instance.



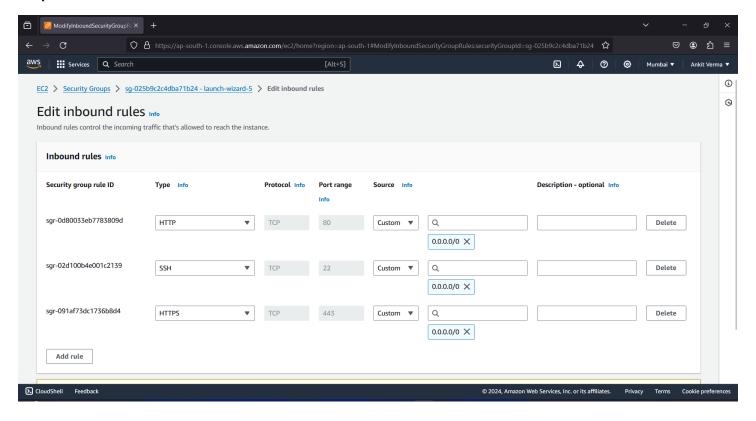
# Step 7: Select the Security option & Click on the security group ID.



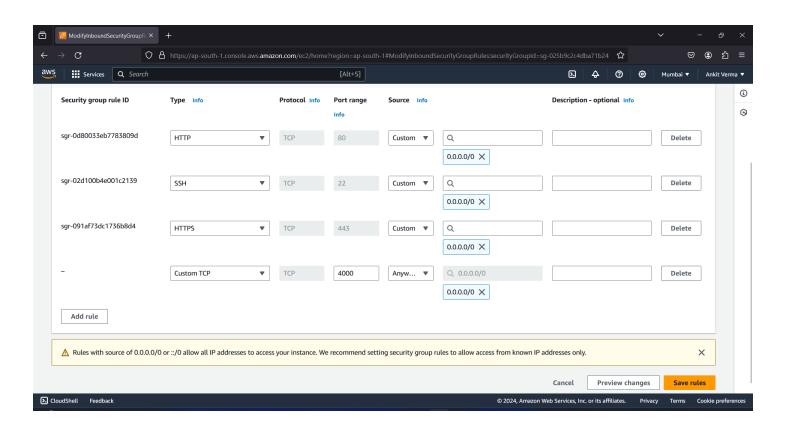
# Step 8: Click on Edit Inbound Rules.



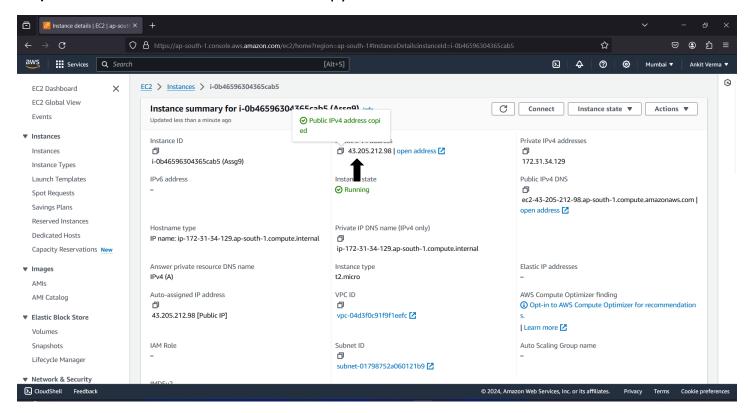
# Step 9: Click on Add Rules.



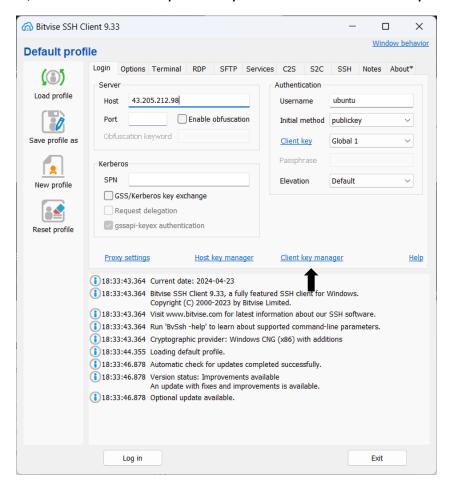
Step 10: Give the port no. 4000, in source info give 0.0.0.0/0. Then click on Save Rules.



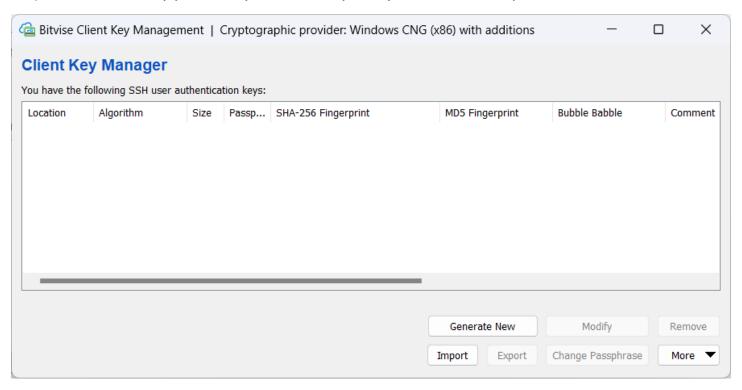
Step 11: Go back into the instance and copy the Public IPv4 Address.



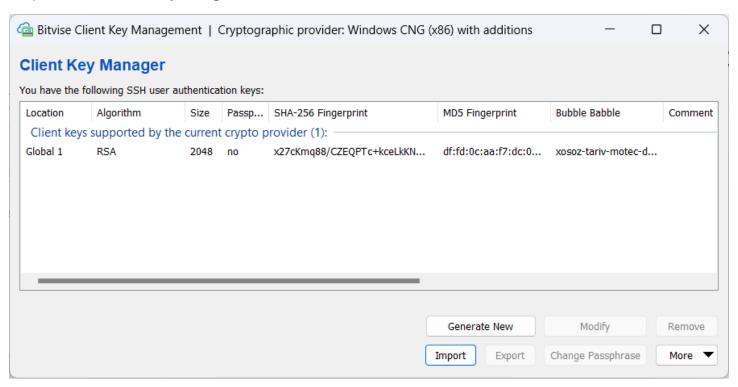
**Step 12:** Paste the address under the host tab. Under the Authentication tab, give the username as ubuntu, Initial method as publickey. Then click on Client Key Manager.



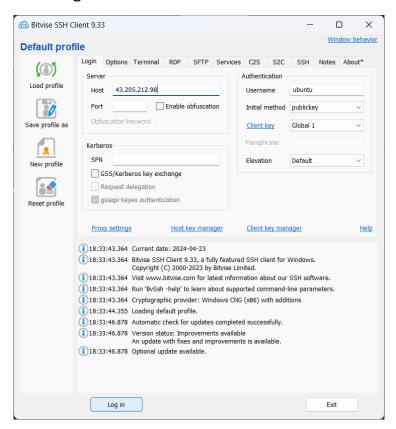
Step 13: Remove any previously selected key if any, the click on Import.



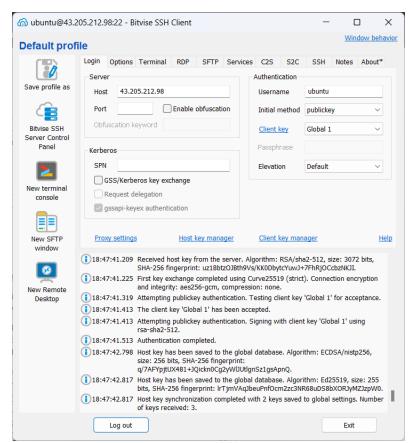
Step 14: Select the key using which instance was created. Then close the window.



Step 15: Then click "Log in".



**Step 16:** Open a new terminal by clicking on New Terminal Console.



#### **Step 17**: In the console type the following commands in sequential order:

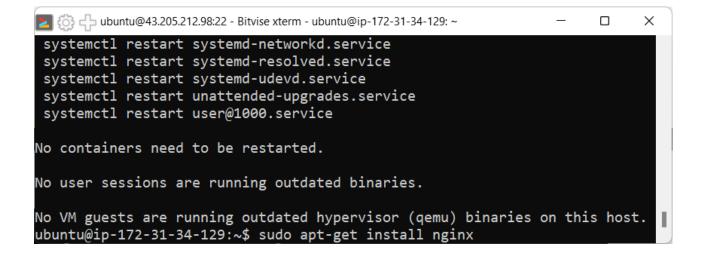
```
La wbuntu@43.205.212.98:22 - Bitvise xterm - ubuntu@ip-172-31-34-129: ~ 

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.

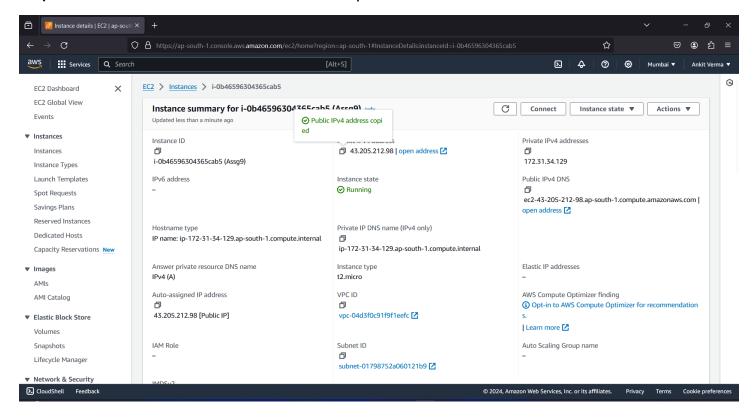
ubuntu@ip-172-31-34-129: ~$ pwd /home/ubuntu ubuntu@ip-172-31-34-129: ~$ sudo apt-get update
```

```
n-en [162 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.2 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7588 B]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
Fetched 31.0 MB in 6s (5360 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-34-129:~$ sudo apt-get upgrade
```



```
🗾 👸 占 ubuntu@43.205.212.98:22 - Bitvise xterm - ubuntu@ip-172-31-34-129: ~
                                                                                                       ×
 systemctl restart unattended-upgrades.service
 systemctl restart user@1000.service
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-34-129:~$ nginx -v
nginx version: nginx/1.18.0 (Ubuntu)
ubuntu@ip-172-31-34-129:~$ curl -SL https://deb.nodesource.com/setup_16.x|sudo -E bash -
🌅 👸 占 ubuntu@43.205.212.98:22 - Bitvise xterm - ubuntu@ip-172-31-34-129: ~
                                                                                                       X
                                                                                                 Get:4 https://deb.nodesource.com/node_16.x nodistro InRelease [12.1 kB]
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Get:6 https://deb.nodesource.com/node_16.x nodistro/main amd64 Packages [7462 B]
Fetched 19.6 kB in 1s (19.9 kB/s)
Reading package lists... Done
2024-04-23 13:35:23 - Repository configured successfully. To install Node.js, run: apt-get install n
odejs -y
ubuntu@ip-172-31-34-129:~$ sudo apt install nodejs
🌅 👸 占 ubuntu@43.205.212.98:22 - Bitvise xterm - ubuntu@ip-172-31-34-129: ~
                                                                                                 X
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-34-129:~$ node -v
v16.20.2
ubuntu@ip-172-31-34-129:~$
🗾 👸 占 ubuntu@43.205.212.98:22 - Bitvise xterm - ubuntu@ip-172-31-34-129: ~/repo007/Repo07
                                                                                                 П
                                                                                                       ×
ubuntu@ip-172-31-34-129:~/repo007$ git clone https://github.com/ankit11exe/Repo07.git
Cloning into 'Repo07'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 6 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), 48.75 KiB | 4.88 MiB/s, done.
ubuntu@ip-172-31-34-129:~/repo007$ cd Repo07
ubuntu@ip-172-31-34-129:~/repo007/Repo07$ npm install
npm <mark>WARN</mark> deprecated uuid@3.4.0: Please upgrade to version 7 or higher.  Older versions may use Math
🗾 🖒 凸 ubuntu@43.205.212.98:22 - Bitvise xterm - ubuntu@ip-172-31-34-129: ~/repo007/Repo07
                                                                                                 X
npm notice
npm notice New major version of npm available! 8.19.4 -> 10.5.2
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.5.2
npm notice Run npm install -g npm@10.5.2 to update!
npm notice
ubuntu@ip-172-31-34-129:~/repo007/Repo07$ npm -v
ubuntu@ip-172-31-34-129:~/repo007/Repo07$ node index.js
Started server
```

Step 18: From the Public IPv4 Address click Open Address.



Step 19: Nginx window will open. Now add :4000 at the end of the IPv4 Address.



# 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 <a href="nginx.org">nginx.org</a>. Commercial support is available at <a href="nginx.com">nginx.com</a>.

Thank you for using nginx.

Step 20: The Nodejs file content will be visible.

