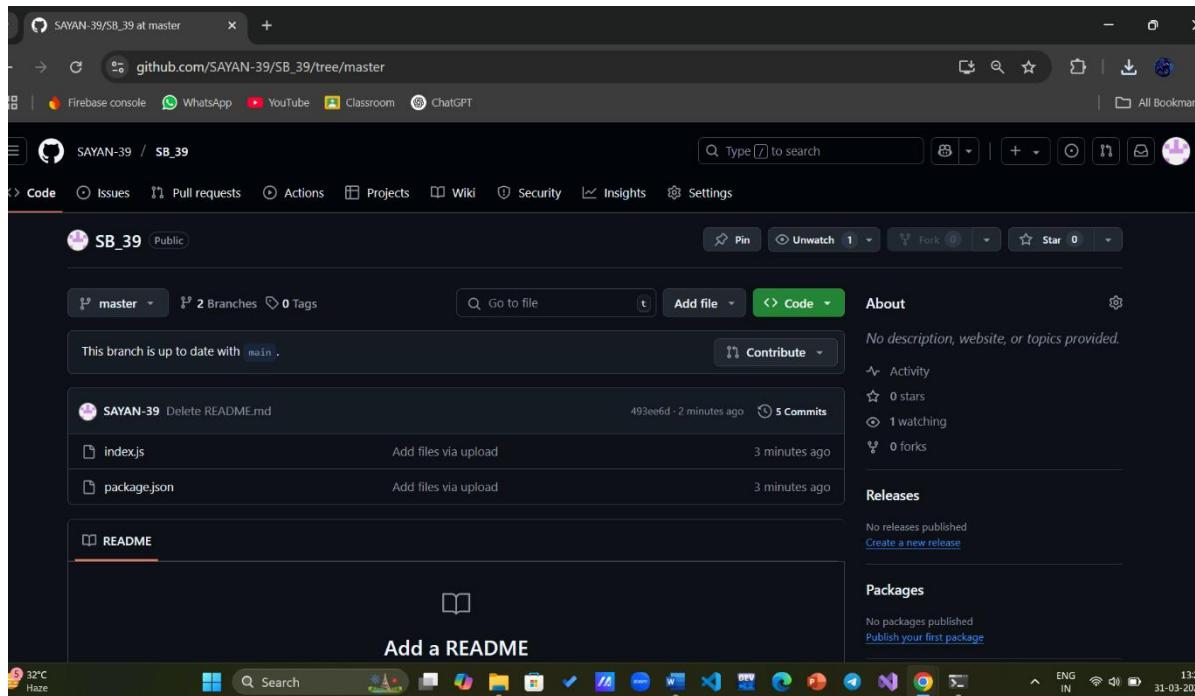


Assignment No:09

Title: Deploy a project from GitHub to EC2..

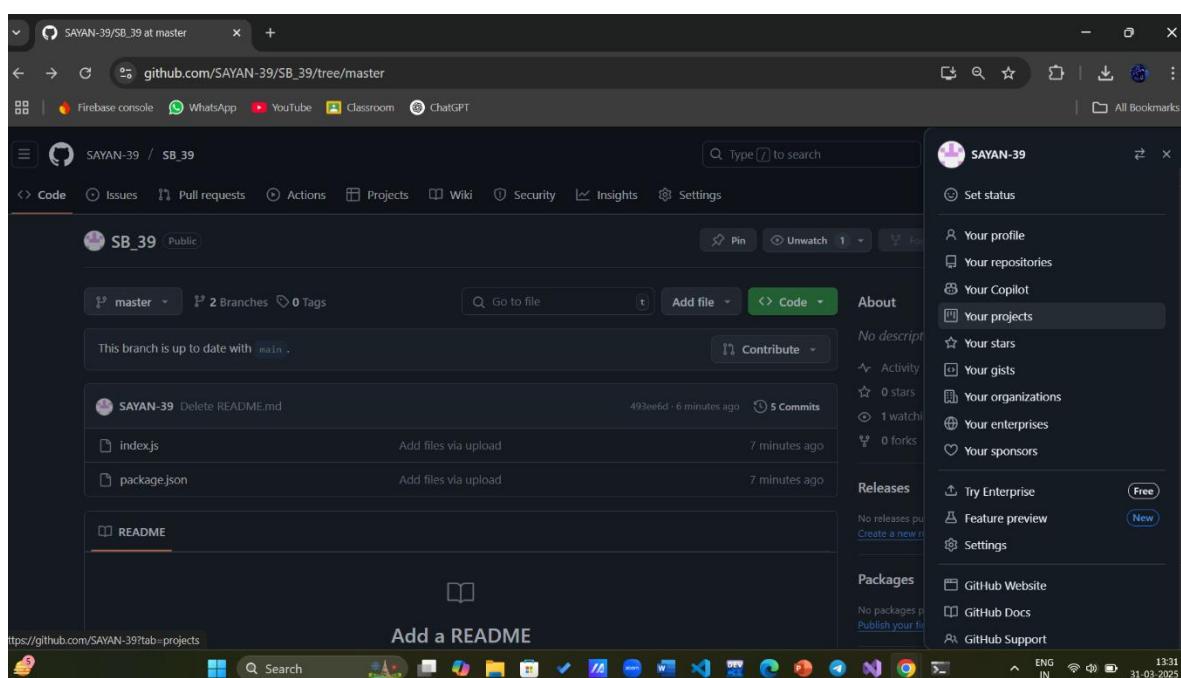
Step-1:

Upload required files to github



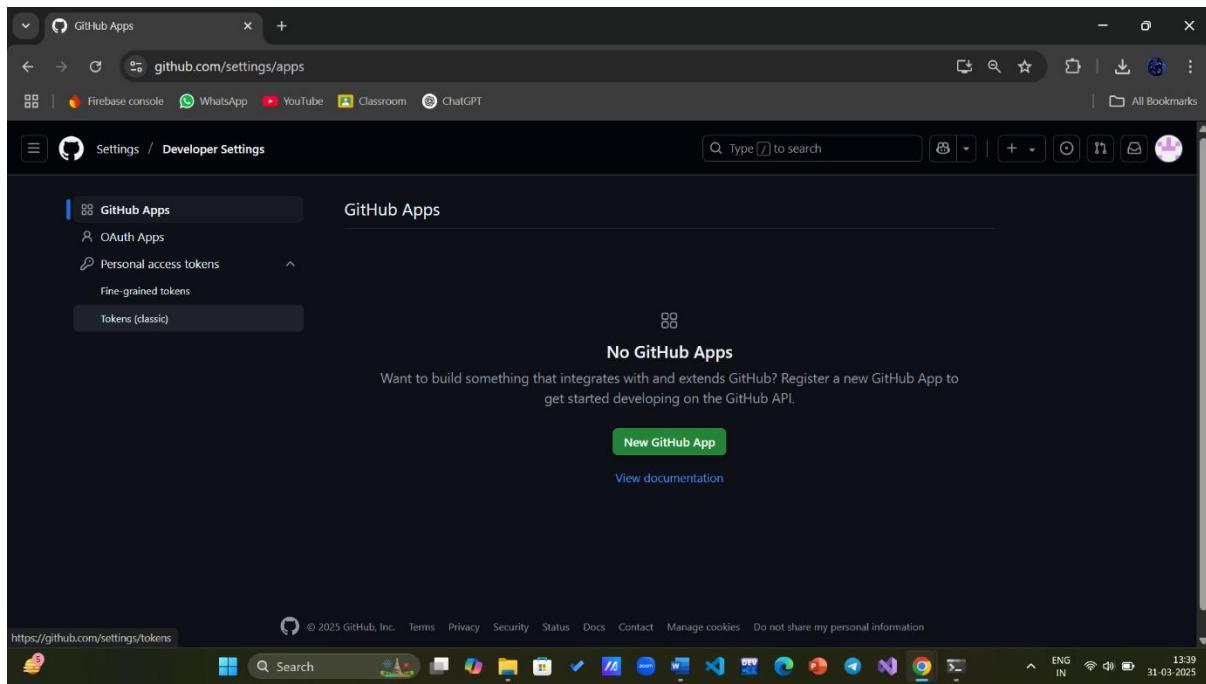
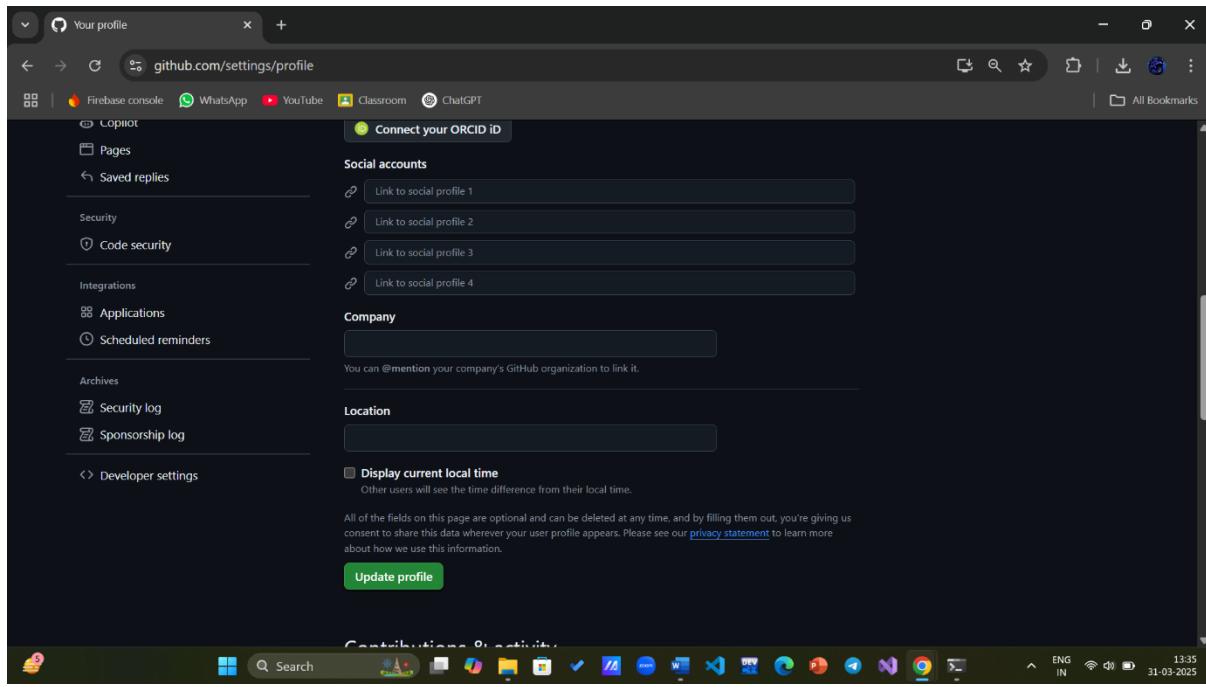
Step-2:

Click on the profile icon and open settings then scroll down in the left side and open developer settings then open the token(classic) under the personal access tokens.



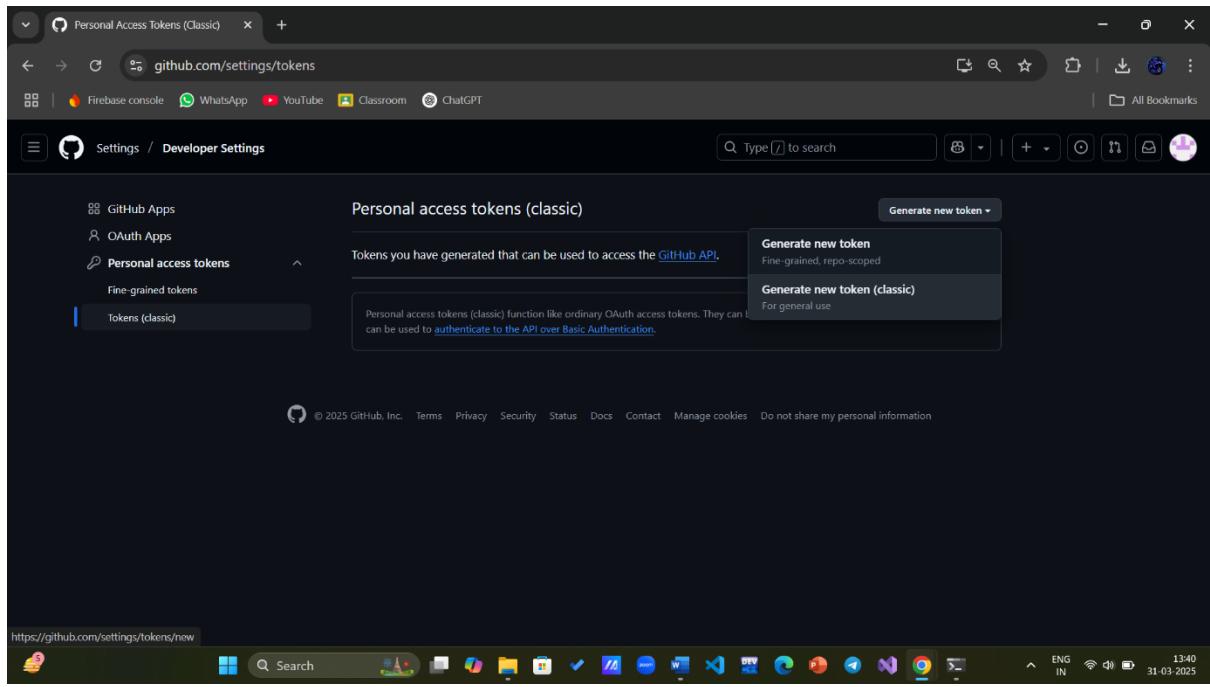
Name:SAYAN BARIK

Class:CSE(DS)/22/039



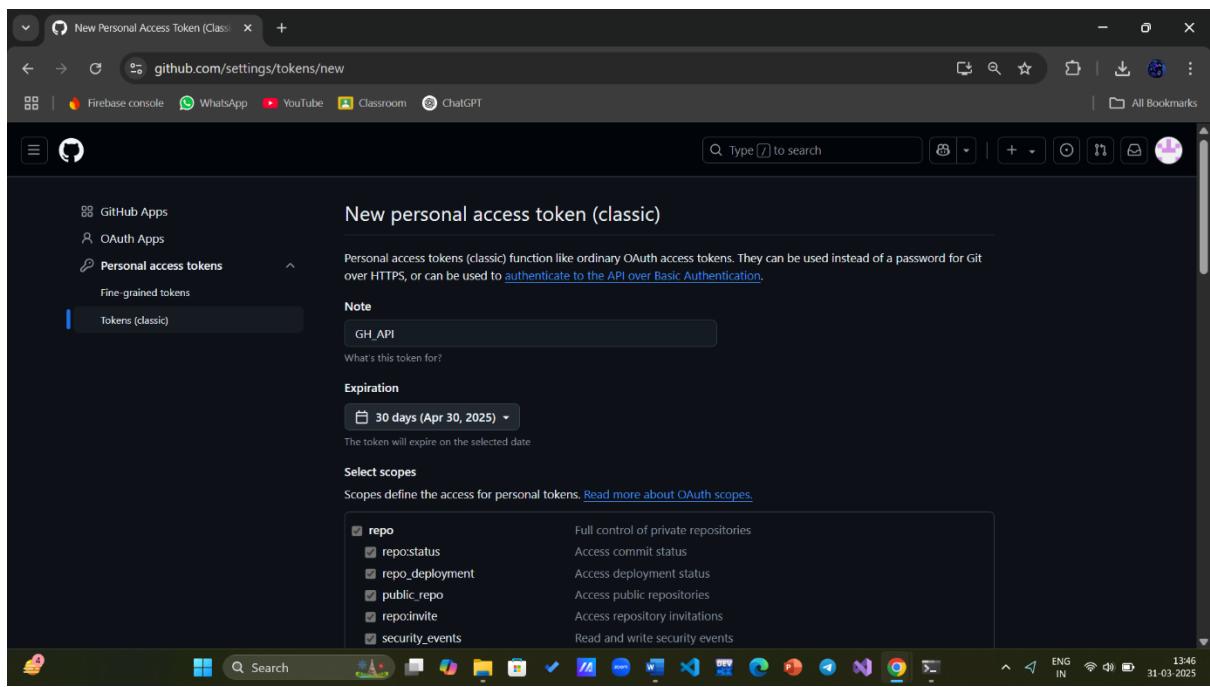
Step-3:

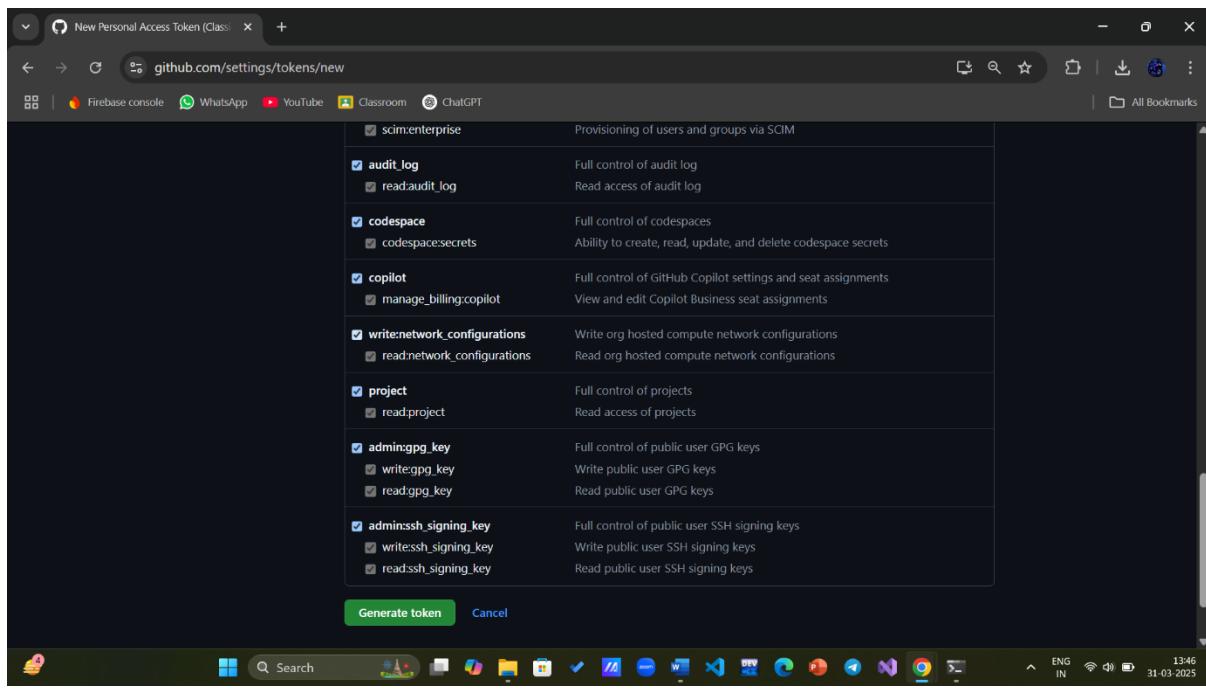
Click on generate new token and then click on generate new token(classic).



Step-4:

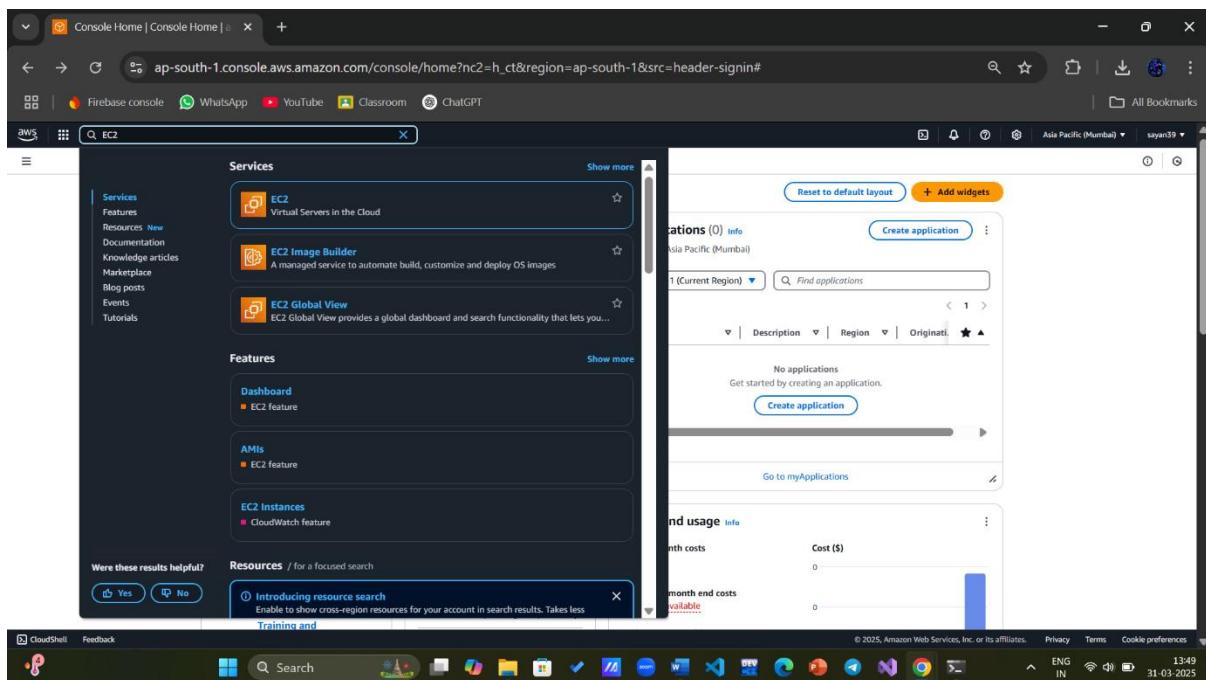
Give a name to the token in the note field and check all the scopes and save the token id.





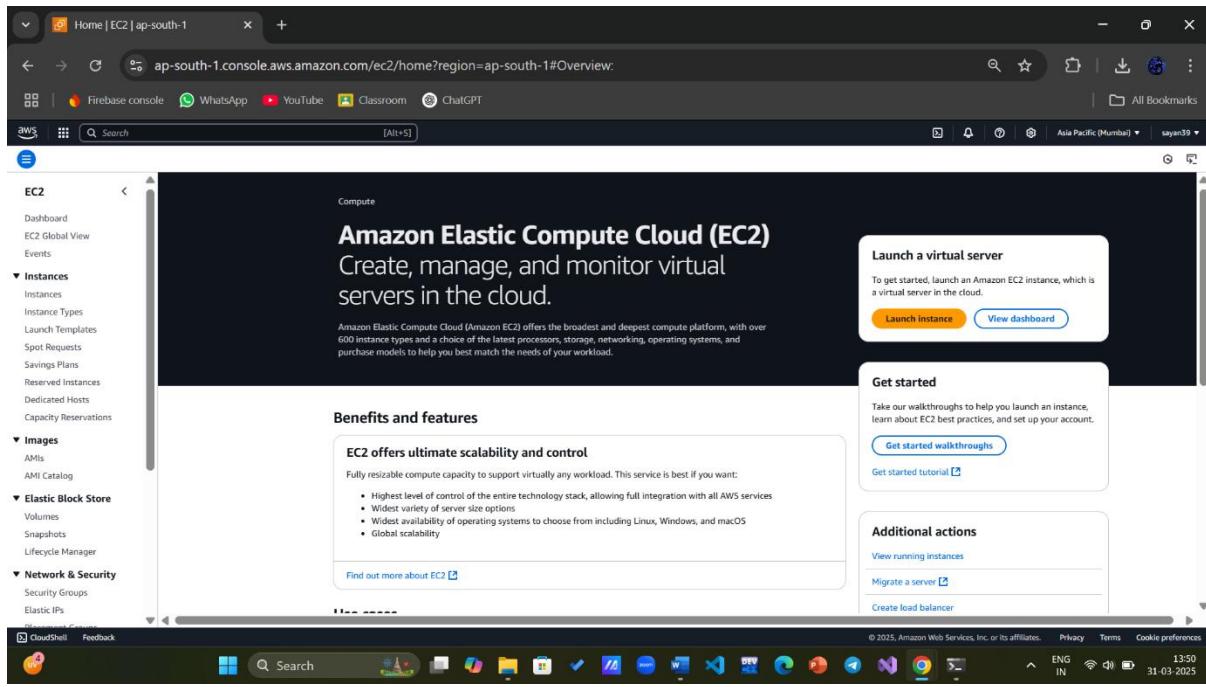
Step-5:

Log into AWS and open EC2.



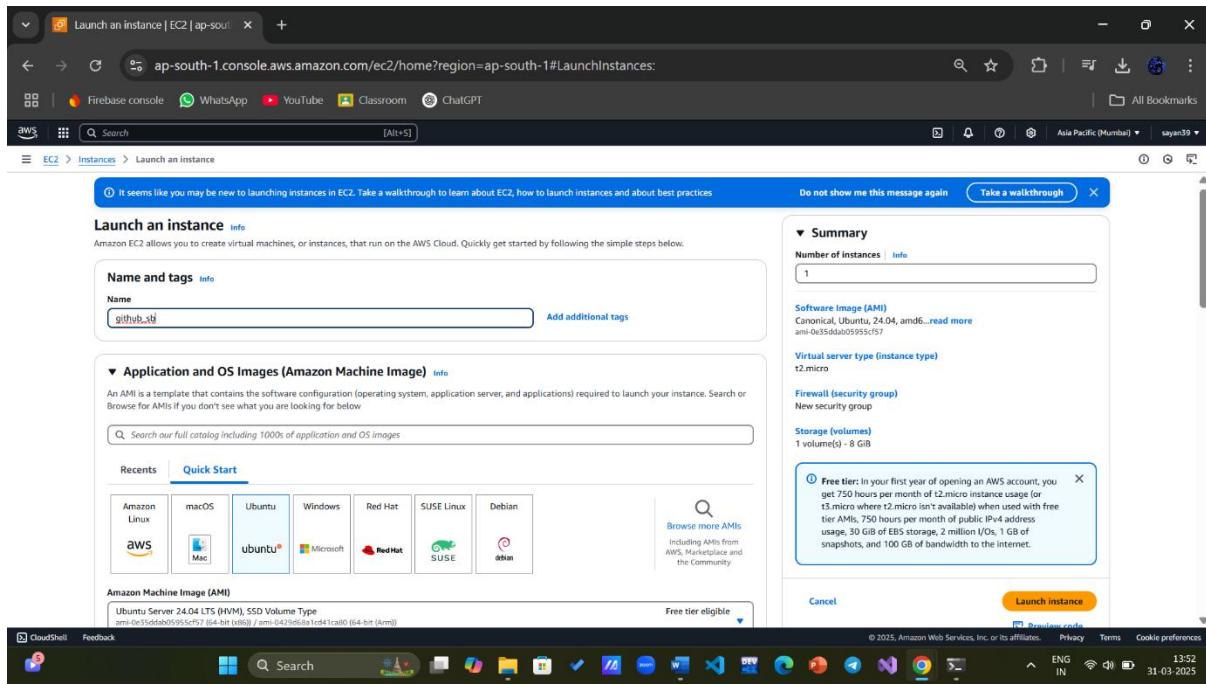
Step-6:

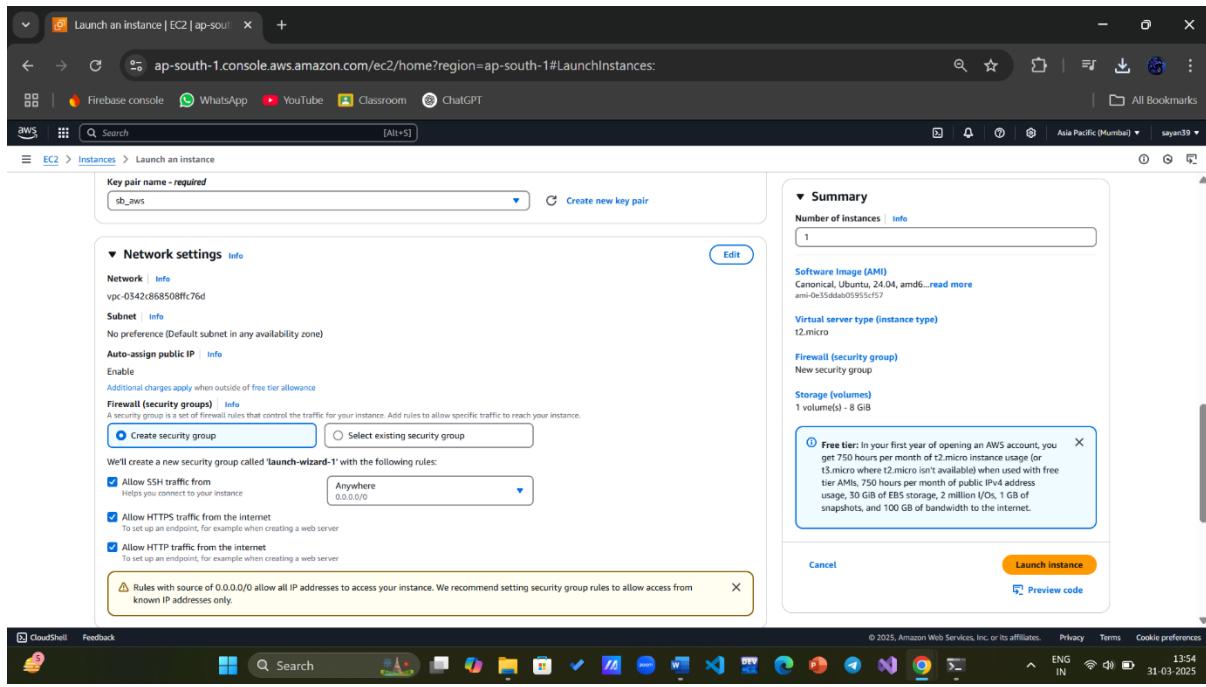
Click on launch instance.



Step-7:

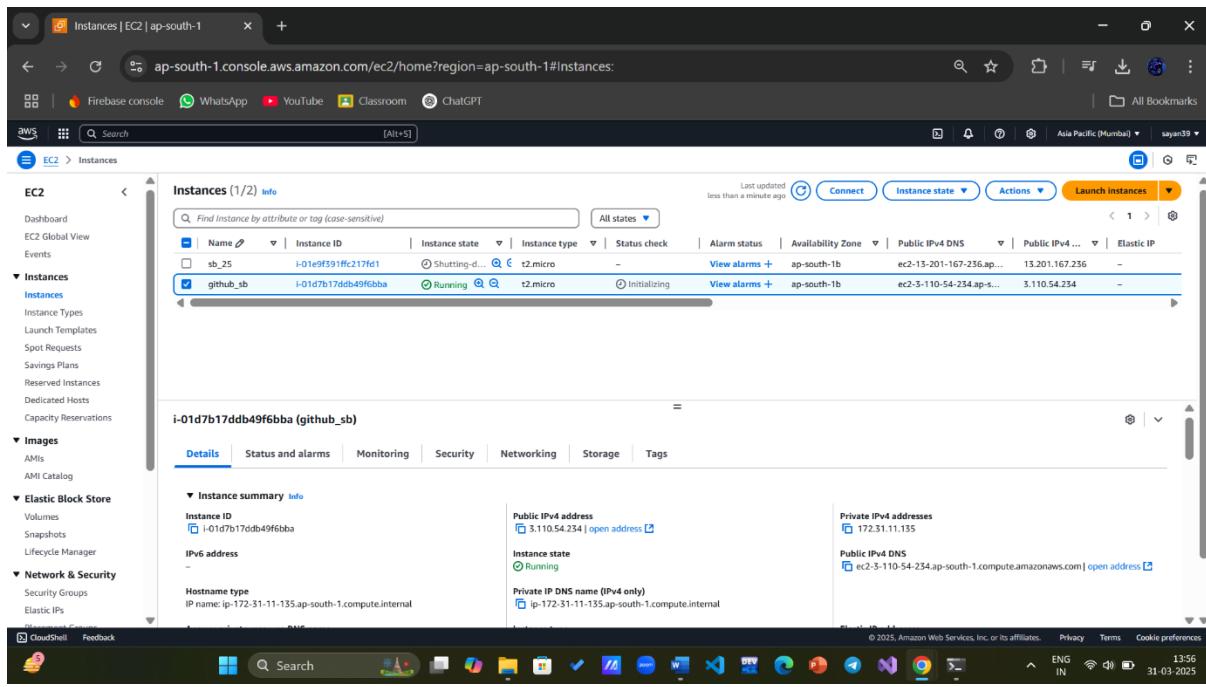
Give a name to the instance and select the operating system then check the 3 boxes to allow SSH, HTTP and HTTPS traffics and click launch instance.





Step-8:

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



Step-9:

Copy the IPv4 address.

Name:SAYAN BARIK
Class:CSE(DS)/22/039

Instance summary for i-01d7b17ddb49f6bba (general)

Updated less than a minute ago

Instance ID: i-01d7b17ddb49f6bba

IPv6 address: -

Hostname type: IP name: ip-172-31-11-135.ap-south-1.compute.internal

Answer private resource DNS name: IPV4 (A)

Auto-assigned IP address: 5.110.54.234 [Public IP]

IMDSv2: Required

Operator: -

Details Status and alarms Monitoring Security Networking Storage Tags

Instance details

AMI ID: ami-0e35ddab05955cf57

Monitoring: disabled

Platform details: Linux/UNIX

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ENG IN 31-03-2025 13:57

Step-10:

open bitvise client and paste the ip in host and set up authentication using the key pair then login and after logging in open new terminal window.

Bitvise SSH Client 9.42

Default profile

Load profile Save profile as New profile Reset profile

Server: 3.110.54.234 Port: 22 Enable obfuscation

Kerberos SPN: SPN GSS/Kerberos key exchange Request delegation gssapi-keyex authentication

Authentication: Username: ubuntu Initial method: publickey Client key: Global 1 Passphrase: Elevation: Default

Proxy settings Host key manager Client key manager Help

13:58:14.504 Current date: 2025-03-31
13:58:14.504 Bitvise SSH Client 9.42, a fully featured SSH client for Windows.
Copyright (C) 2000-2024 by Bitvise Limited.
13:58:14.504 Visit www.bitvise.com for latest information about our SSH software.
13:58:14.504 Run 'Bvsh -help' to learn about supported command-line parameters.
13:58:14.504 Cryptographic provider: Windows CNG (s86) with additions
13:58:15.112 Loading default profile.
13:58:17.713 Configuration updates completed successfully.
13:58:17.713 Version status known issues:
Contains outdated OpenSSL. Unrecognized terminal sequences produce partial output. SFTP synchronization progress displays incorrectly.
13:58:17.715 Optional update available.

Instance summary for i-01d7b17ddb49f6bba

Updated 1 minute ago

Instance ID: i-01d7b17ddb49f6bba

IPv6 address: -

Hostname type: IP name: ip-172-31-11-135.ap-south-1.compute.internal

Answer private resource DNS name: IPV4 (A)

Auto-assigned IP address: 5.110.54.234 [Public IP]

IMDSv2: Required

Operator: -

Details Status and alarms Monitoring Notes About

Instance details

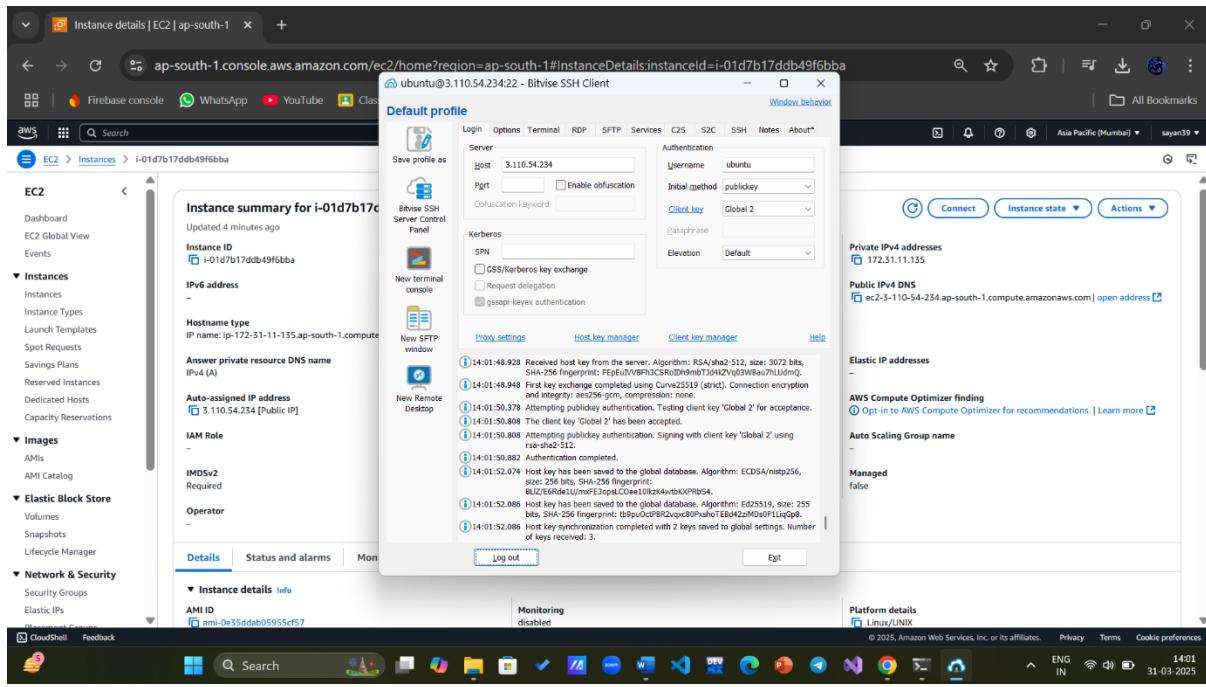
AMI ID: ami-0e35ddab05955cf57

Monitoring: disabled

Platform details: Linux/UNIX

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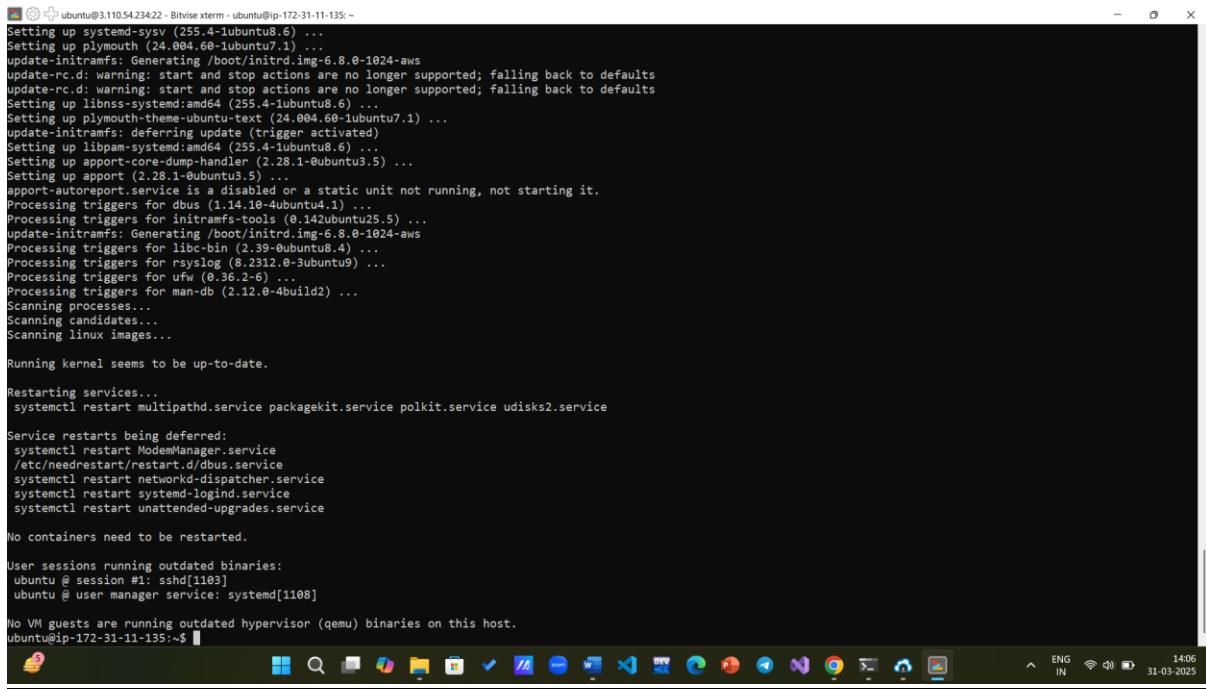
ENG IN 31-03-2025 13:59



Step-11:

Then set up the instance using command sudo apt-get update and sudo apt-get upgrade.

```
ubuntu@3.110.54.234:~$ sudo apt-get update
[...]
Get:29 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata
[592 B]
Get:30 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Packages [39.1 kB]
Get:31 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main Translation-en [8676 B]
Get:32 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 Components [7092 B]
Get:33 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/main amd64 c-n-f Metadata [27
2 B]
Get:34 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [26.4
kB]
Get:35 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [16.3
kB]
Get:36 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [15
.7 kB]
Get:37 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata
[1384 B]
Get:38 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [
212 B]
Get:39 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Meta
data [116 B]
Get:40 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [
212 B]
Get:41 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Meta
data [116 B]
Get:42 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [136 kB]
Get:43 http://security.ubuntu.com/ubuntu noble-security/main amd64 Components [8956 B]
Get:44 http://security.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [7068 B]
Get:45 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [822 kB]
Get:46 http://security.ubuntu.com/ubuntu noble-security/universe Translation-en [177 kB]
Get:47 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [52.0 kB]
Get:48 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [17.0 kB]
Get:49 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [810 kB]
Get:50 http://security.ubuntu.com/ubuntu noble-security/restricted Translation-en [164 kB]
Get:51 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Components [208 B]
Get:52 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 c-n-f Metadata [468 B]
Get:53 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [17.6 kB]
Get:54 http://security.ubuntu.com/ubuntu noble-security/multiverse Translation-en [3792 B]
Get:55 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Components [212 B]
Get:56 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [380 B]
Fetched 33.1 MB in 12s (2679 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-11-135:~$
```



```
ubuntu@3.11.54.234:22 - Bitvise xterm - ubuntu@ip-172-31-11-135: ~
Setting up systemd-sysv (255.4-ubuntu8.6) ...
Setting up plymouth (24.004.60-ubuntu7.1) ...
update-initramfs: Generating /boot/initrd.img-6.8.0-1024-aws
update-rc.d: warning: start and stop actions are no longer supported; falling back to defaults
update-rc.d: warning: start and stop actions are no longer supported; falling back to defaults
Setting up libnss-systemd:amd64 (255.4-ubuntu8.6) ...
Setting up Plymouth-theme-ubuntu-text (24.004.60-ubuntu7.1) ...
update-initramfs: deferring update (trigger activated)
Setting up libpam-systemd:amd64 (255.4-ubuntu8.6) ...
Setting up apport-core-dump-handler (2.28.1-0ubuntu3.5) ...
Setting up apport (2.28.1-0ubuntu3.5) ...
apport-autoreport.service is a disabled or a static unit not running, not starting it.
Processing triggers for dbus (1.14.18-4ubuntu4.1) ...
Processing triggers for initramfs-tools (0.142ubuntu25.5) ...
update-initramfs: Generating /boot/initrd.img-6.8.0-1024-aws
Processing triggers for libc-bin (2.39-0ubuntu8.4) ...
Processing triggers for rsyslog (8.2312.0-3ubuntu9) ...
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...

Running kernel seems to be up-to-date.

Restarting services...
systemctl restart multipathd.service packagekit.service polkit.service udisks2.service

Service restarts being deferred:
systemctl restart ModemManager.service
/etc/needrestart/restart.d/dbus.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service

No containers need to be restarted.

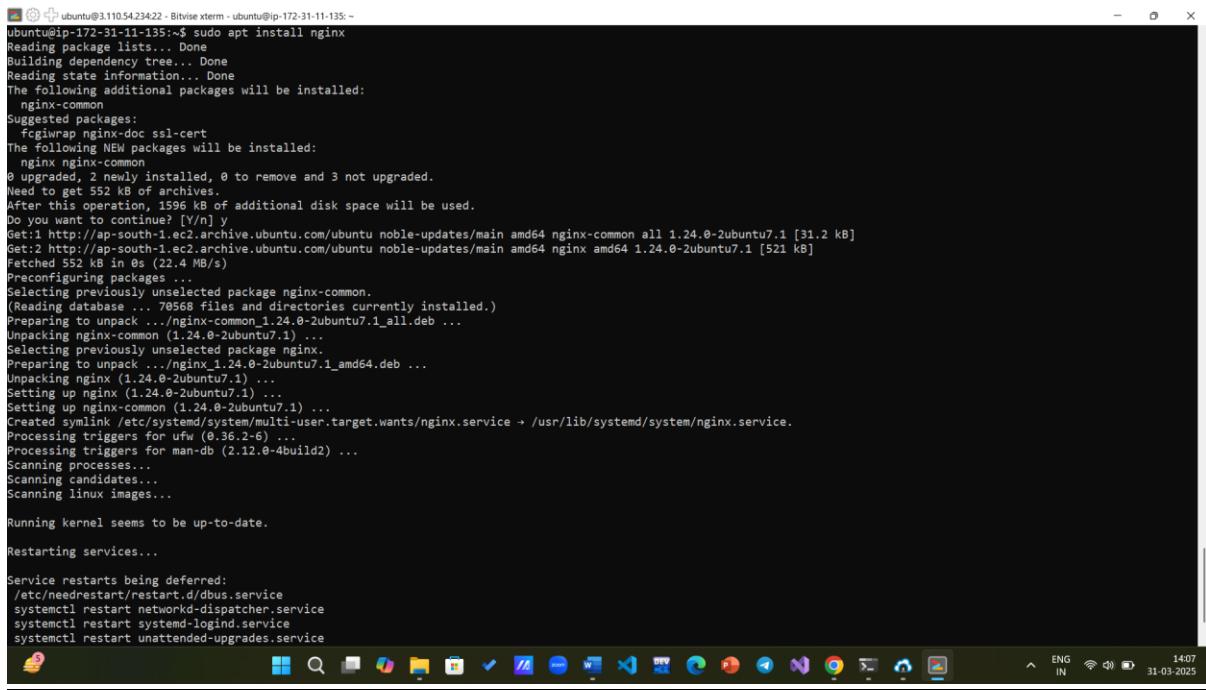
User sessions running outdated binaries:
ubuntu @ session #1: sshd[1103]
ubuntu @ user manager service: systemd[1108]

No VM guests are running outdated hypervisor (qemu) binaries on this host.

ubuntu@ip-172-31-11-135:~$
```

Step-12:

Now install nginx for setting up the web server.



```
ubuntu@3.11.54.234:22 - Bitvise xterm - ubuntu@ip-172-31-11-135: ~
Ubuntu@ip-172-31-11-135:~$ sudo apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-ds2 ssl-cert
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 2 newly installed, 0 to remove and 3 not upgraded.
Need to get 552 kB of archives.
After this operation, 1596 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx-common all 1.24.0-2ubuntu7.1 [31.2 kB]
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1.24.0-2ubuntu7.1 [521 kB]
Fetched 552 kB in 0s (22.4 MB/s)
Preconfiguring packages...
Selecting previously unselected package nginx-common.
(Reading database ... 70568 files and directories currently installed.)
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7.1_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7.1) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7.1_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7.1) ...
Setting up nginx (1.24.0-2ubuntu7.1) ...
Setting up nginx-common (1.24.0-2ubuntu7.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...

Running kernel seems to be up-to-date.

Restarting services...

Service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service
```

Step-13:

Now clone the github repository from github using command git clone paste the link of the repository.

```
ubuntu@3.110.54.234:22 - Bitvise xterm - ubuntu@ip-172-31-11-135: ~
Preconfiguring packages ...
Selecting previously unselected package nginx-common.
(Reading database ... 70568 files and directories currently installed.)
Preparing to unpack .../nginx-common_1.24.0-2ubuntu7.1_all.deb ...
Unpacking nginx-common (1.24.0-2ubuntu7.1) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1.24.0-2ubuntu7.1_amd64.deb ...
Unpacking nginx (1.24.0-2ubuntu7.1) ...
Setting up nginx (1.24.0-2ubuntu7.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
Processing triggers for ufw (0.36.2-6) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...

Running kernel seems to be up-to-date.

Restarting services...

Service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service

No containers need to be restarted.

User sessions running outdated binaries:
ubuntu @ session #1: sshd[1103]
ubuntu@ip-172-31-11-135:~$ git clone https://github.com/SAYAN-39/SB_00.git
Cloning into 'SB_00'...
warning: You appear to have cloned an empty repository.
ubuntu@ip-172-31-11-135:~$ git clone https://github.com/SAYAN-39/SB_39.git
Cloning into 'SB_39'...
remote: Enumerating objects: 14, done.
remote: Counting objects: 100% (14/14), done.
remote: Compressing objects: 100% (11/11), done.
remote: Total 14 (delta 3), reused 3 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (14/14), 4.08 KiB | 1.02 MiB/s, done.
Resolving deltas: 100% (1/1), done.
ubuntu@ip-172-31-11-135:~$
```

Step-14:

Then open the directory that is cloned using command cd name of the directory. Then install nodejs using commands curl -sL https://deb.nodesource.com/setup_18.x | sudo -E bash – and sudo apt-get install nodejs.

```
ubuntu@3.110.54.234:22 - Bitvise xterm - ubuntu@ip-172-31-11-135: ~/SB_39
After this operation, 35.8 kB of additional disk space will be used.
Get:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 apt-transport-https all 2.7.14build2 [3974 B]
Fetched 3974 B in 0s (309 kB/s)
Selecting previously unselected package apt-transport-https.
(Reading database ... 70616 files and directories currently installed.)
Preparing to unpack .../apt-transport-https_2.7.14build2_all.deb ...
Unpacking apt-transport-https (2.7.14build2) ...
Setting up apt-transport-https (2.7.14build2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...

Running kernel seems to be up-to-date.

Restarting services...

Service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service

No containers need to be restarted.

User sessions running outdated binaries:
ubuntu @ session #1: sshd[1103]
ubuntu @ user manager service: systemd[1108]

No VM guests are running outdated hypervisor (qemu) binaries on this host.
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Get:4 https://deb.nodesource.com/node_18.x nodistro InRelease [12.1 kB]
Hit:5 http://security.ubuntu.com/ubuntu noble-security InRelease
Get:6 https://deb.nodesource.com/node_18.x nodistro/main amd64 Packages [11.5 kB]
Fetched 23.0 kB in 0s (32.0 kB/s)
Reading package lists... Done
2025-03-31 08:45:05 - Repository configured successfully.
2025-03-31 08:45:05 - To install Node.js, run: apt-get install nodejs -y
2025-03-31 08:45:05 - You can use N|solid Runtime as a node.js alternative
2025-03-31 08:45:05 - To install N|solid Runtime, run: apt-get install nsolid -y
ubuntu@ip-172-31-11-135:~/SB_39$
```

Step-15:

After installing nodejs use npm install command to install required dependencies.

```

ubuntu@3.11.54.234:22 - Bitvise xterm - ubuntu@ip-172-31-11-135: ~/SB_39
node-jsonfile : Depends: nodejs:any
node-jsonstream : Depends: nodejs:any
node-lodash : Depends: nodejs:any
node-loose-envify : Depends: nodejs:any
node-mime : Depends: nodejs:any
node-ms : Depends: nodejs:any
node-object-assign : Depends: nodejs:any
node-postcss : Depends: node-picocolors but it is not going to be installed
Depends: nodejs:any
node-rimraf : Depends: nodejs:any
node-server : Depends: nodejs:any
node-source-map-resolve : Depends: nodejs:any
node-tape : Depends: node-defined but it is not going to be installed
Depends: node-istanbul but it is not going to be installed
Depends: nodejs:any
Depends: nodejs:any
node-vega-lite : Depends: node-vega-event-selector
Depends: node-vega-expression
Depends: node-vega-util
Depends: node-yargs but it is not going to be installed
Depends: nodejs:any
node-error : Depends: nodejs:any
node-ws : Depends: nodejs:any
E: Unable to correct problems, you have held broken packages.
ubuntu@ip-172-31-11-135:~/SB_39$ sudo apt-get install nodejs
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nodejs is already the newest version (18.20.8-1nodesource1).
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
ubuntu@ip-172-31-11-135:~/SB_39$ npm install

added 227 packages, and audited 228 packages in 16s

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-172-31-11-135:~/SB_39$
```

Step-16:

Now open aws and open the current instance then scroll down and goto security.

Security	
Monitoring	disabled
Launch time	Mon Mar 31 2025 13:55:32 GMT+0530 (India Standard Time) (26 minutes)
Key pair assigned at launch	sd_aws
Current instance boot mode	legacy-bios

Step-17:

Then click on the link in security groups then click on edit inbound rules.

The screenshot shows the AWS EC2 Instance details page for an instance with ID i-01d7b17ddb49f6bba. The Security tab is selected. Under Security details, it shows the IAM Role as 'Owner ID' (050451359467) and a single security group 'sg-0af7a73190cb0a3ba (launch-wizard-1)'. Under Inbound rules, there are three entries:

Name	Security group rule ID	Port range	Protocol	Source	Security groups	Description
-	sgr-05dd80077b7f04a3	80	TCP	0.0.0.0/0	launch-wizard-1	-
-	sgr-0245e753e50a65941	443	TCP	0.0.0.0/0	launch-wizard-1	-
-	sgr-00e60648995bbfcf6	22	TCP	0.0.0.0/0	launch-wizard-1	-

Under Outbound rules, there are no entries.

The screenshot shows the AWS Security Groups page for the security group sg-0af7a73190cb0a3ba, which is associated with the instance. The Details tab is selected. It shows the security group name 'sg-0af7a73190cb0a3ba - launch-wizard-1', security group ID 'sg-0af7a73190cb0a3ba', owner 'Owner ID' (050451359467), and a description 'Launch-wizard-1 created 2025-03-31T08:21:48.278Z'. The Inbound rules count is 3 and the Outbound rules count is 1. The Inbound rules table shows the same three entries as the instance details page:

Name	Security group rule ID	IP version	Type	Protocol	Port range	Source	Description
sgr-05dd80077b7f04a3	IPv4	HTTP	TCP	80	0.0.0.0/0	-	
sgr-0245e753e50a65941	IPv4	HTTPS	TCP	443	0.0.0.0/0	-	
sgr-00e60648995bbfcf6	IPv4	SSH	TCP	22	0.0.0.0/0	-	

Step-18:

Click on add rule and select the type of new rule custom tcp port range 4000 source 0.0.0.0 or anywhere then click on save rule.

The screenshot shows the 'Edit inbound rules' step of the 'ModifyInboundSecurityGroupRule' wizard. It lists three existing rules:

- sgr-0f5dd80077b7f04a3: Type: HTTP, Protocol: TCP, Port range: 80, Source: Custom, Description: optional
- sgr-0245e755e50a65941: Type: HTTPS, Protocol: TCP, Port range: 443, Source: Custom, Description: optional
- sgr-00e60648995bbfcf6: Type: SSH, Protocol: TCP, Port range: 22, Source: Custom, Description: optional

A new rule is being added for port 4000:

- Type: Custom TCP, Protocol: TCP, Port range: 4000, Source: Anywhere, Description: optional

A warning message at the bottom states: "⚠ Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only."

Buttons at the bottom right include 'Cancel', 'Preview changes', and 'Save rules'.

The screenshot shows the 'Edit inbound rules' step of the 'ModifyInboundSecurityGroupRule' wizard after saving the changes. The newly added rule for port 4000 is now listed:

- sgr-0f5dd80077b7f04a3: Type: HTTP, Protocol: TCP, Port range: 80, Source: Anywhere, Description: optional
- sgr-0245e755e50a65941: Type: HTTPS, Protocol: TCP, Port range: 443, Source: Anywhere, Description: optional
- sgr-00e60648995bbfcf6: Type: SSH, Protocol: TCP, Port range: 22, Source: Anywhere, Description: optional
- : Type: Custom TCP, Protocol: TCP, Port range: 4000, Source: Anywhere, Description: optional

A warning message at the bottom states: "⚠ Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only."

Buttons at the bottom right include 'Cancel', 'Preview changes', and 'Save rules'.

Step-19:

Open the terminal console and start the server using command node index.js .

```
ubuntu@3.109.1.31:22 - Bitvise xterm - ubuntu@ip-172-31-0-181: ~/SD_GH
Selecting previously unselected package nodejs.
(Reading database ... 70620 files and directories currently installed.)
Preparing to unpack .../nodejs_18.20.8-1nodesource1_amd64.deb ...
Unpacking nodejs (18.20.8-1nodesource1) ...
Setting up nodejs (18.20.8-1nodesource1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning candidates...
Scanning linux images...

Running kernel seems to be up-to-date.

Restarting services...

Service restarts being deferred:
/etc/needrestart/restart.d/dbus.service
systemctl restart networkd-dispatcher.service
systemctl restart systemd-logind.service
systemctl restart unattended-upgrades.service

No containers need to be restarted.

User sessions running outdated binaries:
ubuntu @ session #2: sshd[1051]
ubuntu @ user manager service: systemd[1056]

No VM guests are running outdated hypervisor (qemu) binaries on this host.

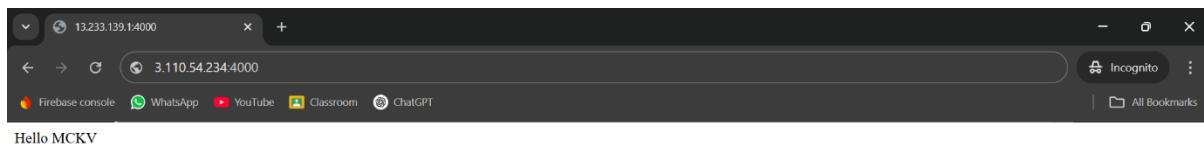
ubuntu@ip-172-31-0-181:~/SD_GH$ npm install
added 227 packages, and audited 228 packages in 24s

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-172-31-0-181:~/SD_GH$ ls
index.js  node_modules  package-lock.json  package.json
ubuntu@ip-172-31-0-181:~/SD_GH$ node index.js
Started server
```

Step-20:

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 .



Step-21:

Incase of change in the file in github run the git pull command to update it here.

```
ubuntu@3.110.54.234:22 - Bitvise xterm - ubuntu@ip-172-31-11-135: ~/SB_39
  Depends: nodejs:any
node-imraf : Depends: nodejs:any
node-server : Depends: nodejs:any
node-source-map-resolve : Depends: nodejs:any
node-tape : Depends: node-defined but it is not going to be installed
  Depends: node-istanbul but it is not going to be installed
  Depends: nodejs:any
node-vega-lite : Depends: node-vega-event-selector
  Depends: node-vega-expression
  Depends: node-vega-util
  Depends: node-yargs but it is not going to be installed
  Depends: nodejs:any
node-verror : Depends: nodejs:any
node-ws : Depends: nodejs:any
E: Unable to correct problems, you have held broken packages.
ubuntu@ip-172-31-11-135:~/SB_39$ sudo apt-get install nodejs
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nodejs is already the newest version (18.20.8-1nodesource1).
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
ubuntu@ip-172-31-11-135:~/SB_39$ npm install

added 227 packages, and audited 228 packages in 16s

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-172-31-11-135:~/SB_39$ node index.js
Started server
^C
ubuntu@ip-172-31-11-135:~/SB_39$ node index.js
Started server
^C
ubuntu@ip-172-31-11-135:~/SB_39$ git pull
Already up to date.
ubuntu@ip-172-31-11-135:~/SB_39$
```