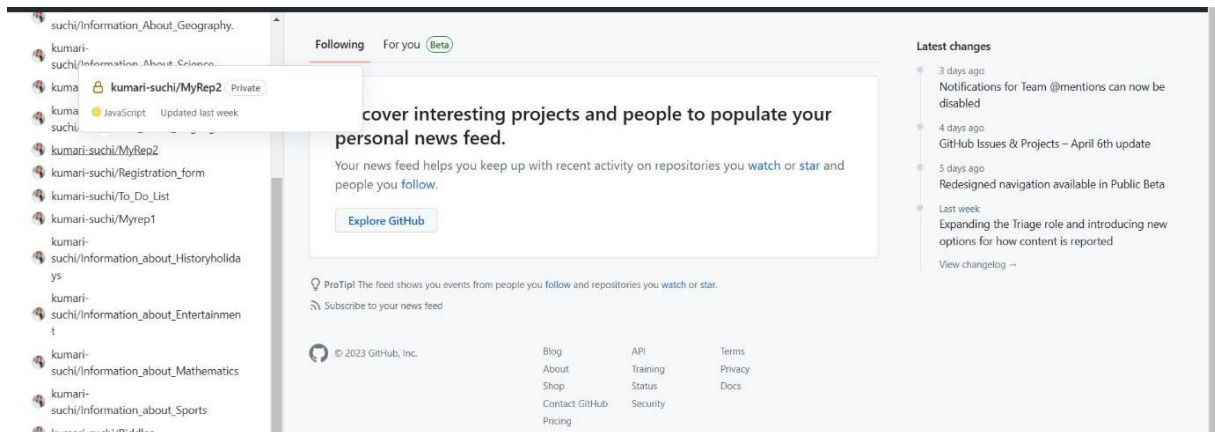


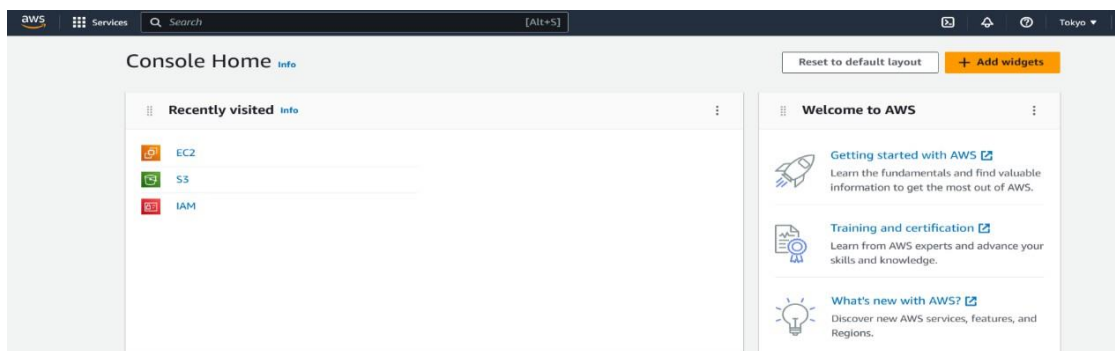
AWS-9

Deploy a project from GitHub to EC2.

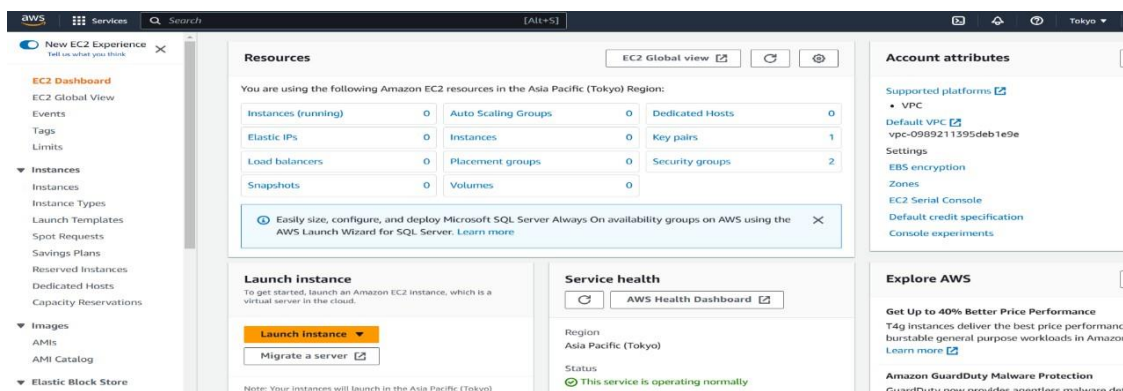
1. Sign in to your GitHub account.



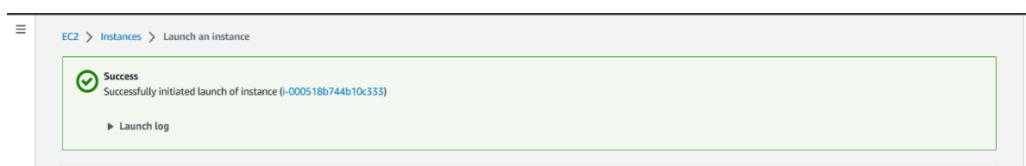
2. Then sign in to aws account then click EC2.



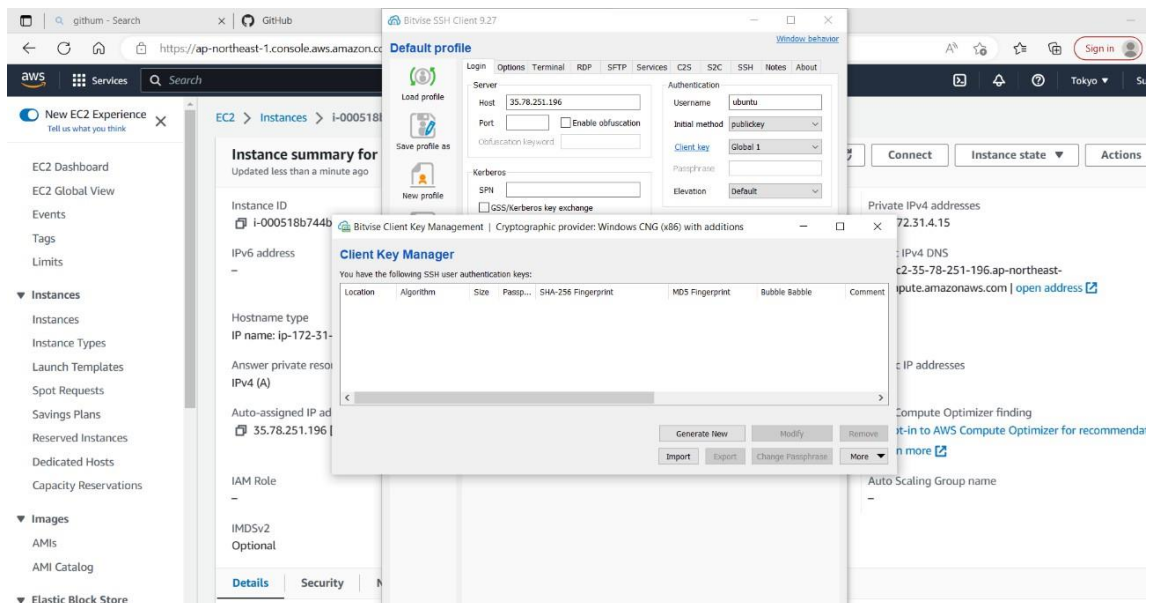
3. Then click on Launch instances and create instances.



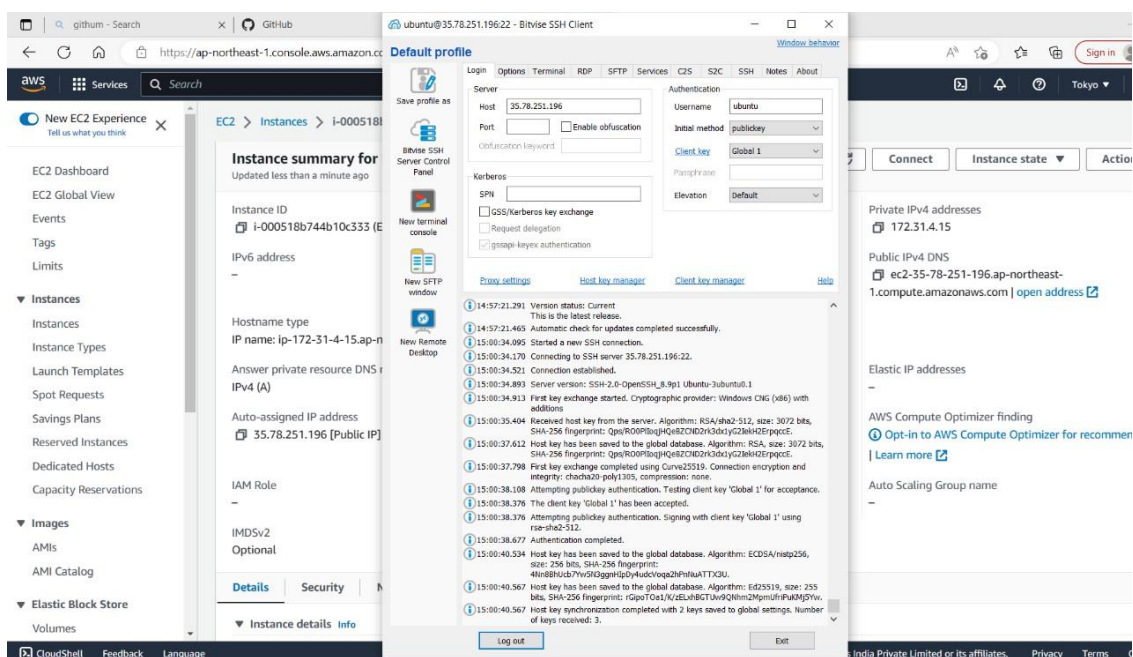
4. Successfully instance created.



5. Then copy Public IPv4 address and after that open Bitvise SSH client and then paste the address on host then click on client key manager and then click on import and import .pem file which is automatically downloaded.



6. Then open New terminal console.



7. Then write some command on console i.e `pwd`, `sudo apt-get update`, `sudo apt-get upgrade`, `sudo apt-get install nginx`, `nginx -v`, `curl -sL https://deb.nodesource.com/setup 18.x` | `sudo -E bash -`, `sudo apt install nodejs` and `node -v`.

BWS Services Search

New EC2 Experience
Tell us what you think

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Events
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Limits

▼ **Instances**
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Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations

▼ **Images**
AMIs
AMI Catalog

▼ **Elastic Block Store**

ubuntu@35.78.251.19622 - Bitwise xterm - ubuntu@ip-172-31-4-15: ~

```
* Documentation: https://help.ubuntu.com
* Management:   https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage

System information as of Mon Apr 10 09:30:36 UTC 2023

System load: 0.10400390625      Processes:           101
Usage of /:  20.2% of 7.57GB    Users logged in:     0
Memory usage: 21%              IPv4 address for eth0: 172.31.4.15
Swap usage:  0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

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-172-31-4-15:~$ pwd
```

Instance state ▼ Action

196.ap-northeast-1.amazonaws.com | open address

optimizer finding
compute Optimizer for recommend

name

Search or jump to...

Top Repositories

Find a repository...

- kumari-suchi/web_clock
- kumari-suchi/Quotes_generator
- kumari-suchi/jsdock
- kumari-suchi/web-calendar
- kumari-suchi/Calculator
- kumari-suchi/Information_About_Geography
- kumari-suchi/Information_About_Science
- kumari-suchi/General_knowledge
- kumari-suchi/Information_about_language
- kumari-suchi/MyRep2
- kumari-suchi/Registration_form
- kumari-suchi/To_Do_List
- kumari-suchi/Myrep1
- kumari-suchi/Information_about_Historyholidays

ubuntu@35.78.251.19622 - Bitwise xterm - ubuntu@ip-172-31-4-15: ~

```
Unpacking vim-runtime (2:8.2.3995-1ubuntu2.5) over (2:8.2.3995-1ubuntu2.4) ...
Preparing to unpack .../4-xxd_2:8.2.3995-1ubuntu2.5_amd64.deb ...
Unpacking xxd (2:8.2.3995-1ubuntu2.5) over (2:8.2.3995-1ubuntu2.4) ...
Preparing to unpack .../5-vim-common_2:8.2.3995-1ubuntu2.5_all.deb ...
Unpacking vim-common (2:8.2.3995-1ubuntu2.5) over (2:8.2.3995-1ubuntu2.4) ...
Preparing to unpack .../6-bind9-host_1:9.18.12-0ubuntu0.22.04.1_amd64.deb ...
Unpacking bind9-host (1:9.18.12-0ubuntu0.22.04.1) over (1:9.18.1-1ubuntu1.3) ...
Preparing to unpack .../7-bind9-dnswtills_1:9.18.12-0ubuntu0.22.04.1_amd64.deb ...
Unpacking bind9-dnswtills (1:9.18.12-0ubuntu0.22.04.1) over (1:9.18.1-1ubuntu1.3) ...
Preparing to unpack .../8-bind9-libs_1:9.18.12-0ubuntu0.22.04.1_amd64.deb ...
Unpacking bind9-libs:amd64 (1:9.18.12-0ubuntu0.22.04.1) over (1:9.18.1-1ubuntu1.3) ...
Setting up bind9-libs:amd64 (1:9.18.12-0ubuntu0.22.04.1) ...
Setting up distro-info-data (0.52ubuntu0.3) ...
Setting up xxd (2:8.2.3995-1ubuntu2.5) ...
Setting up vim-common (2:8.2.3995-1ubuntu2.5) ...
Setting up vim-runtime (2:8.2.3995-1ubuntu2.5) ...
Setting up bind9-host (1:9.18.12-0ubuntu0.22.04.1) ...
Setting up vim (2:8.2.3995-1ubuntu2.5) ...
Setting up vim-tiny (2:8.2.3995-1ubuntu2.5) ...
Setting up bind9-dnswtills (1:9.18.12-0ubuntu0.22.04.1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

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-172-31-4-15:~$ sudo apt-get install nginx
```

Search or jump to...

Top Repositories

Find a repository...

- kumari-suchi/web_clock
- kumari-suchi/Quotes_generator
- kumari-suchi/jsdock
- kumari-suchi/web-calendar
- kumari-suchi/Calculator
- kumari-suchi/Information_About_Geography
- kumari-suchi/Information_About_Science
- kumari-suchi/General_knowledge
- kumari-suchi/Information_about_language
- kumari-suchi/MyRep2
- kumari-suchi/Registration_form
- kumari-suchi/To_Do_List
- kumari-suchi/Myrep1
- kumari-suchi/Information_about_Historyholidays

ubuntu@35.78.251.19622 - Bitwise xterm - ubuntu@ip-172-31-4-15: ~

```
Setting up libjpeg8:amd64 (2.1.3-1ubuntu0.22.04.1) ...
Setting up libnghttp-mod-http-xsit-filter (1.18.0-6ubuntu14.3) ...
Setting up fonts-dejavu-core (2.37-2build1) ...
Setting up libjpeg-turbo8:amd64 (2.1.2-0ubuntu1) ...
Setting up libwebp7:amd64 (1.2.2-2) ...
Setting up libnghttp-mod-http-geopip2 (1.18.0-6ubuntu14.3) ...
Setting up libjpeg8:amd64 (8c-2ubuntu10) ...
Setting up libnghttp-mod-mail (1.18.0-6ubuntu14.3) ...
Setting up fontconfig-config (2.13.1-4.2ubuntu5) ...
Setting up libnghttp-mod-stream (1.18.0-6ubuntu14.3) ...
Setting up libtiff5:amd64 (4.3.0-6ubuntu0.4) ...
Setting up libfontconfig1:amd64 (2.13.1-4.2ubuntu5) ...
Setting up libnghttp-mod-stream-geopip2 (1.18.0-6ubuntu14.3) ...
Setting up libgd3:amd64 (2.3.0-2ubuntu2) ...
Setting up libnghttp-mod-http-image-filter (1.18.0-6ubuntu14.3) ...
Setting up nginx-core (1.18.0-6ubuntu14.3) ...
* Upgrading binary nginx
Setting up nginx (1.18.0-6ubuntu14.3) ...
Processing triggers for ufw (0.36.1-4build1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

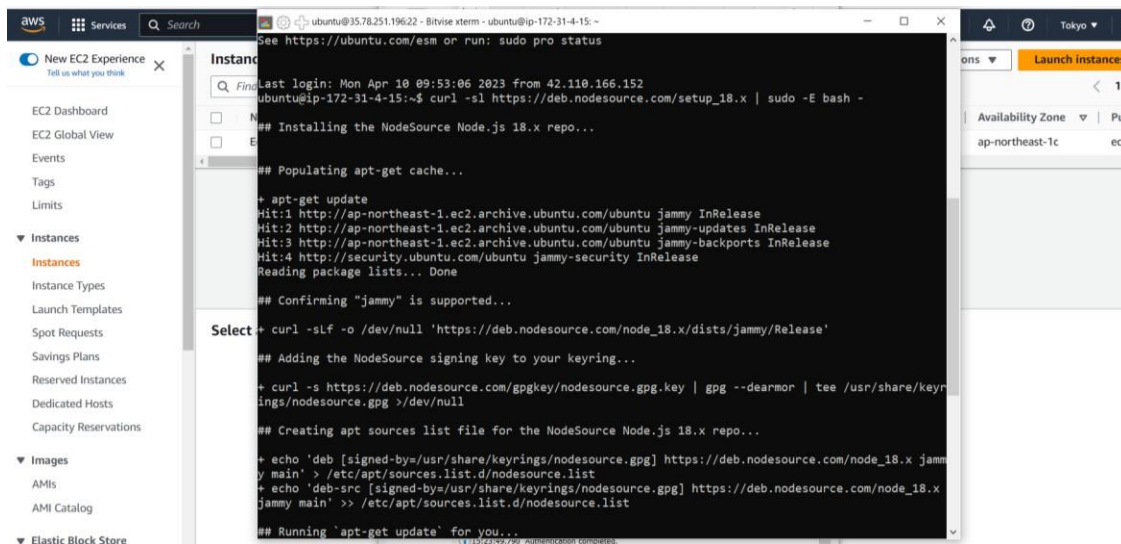
No services need to be restarted.

No containers need to be restarted.

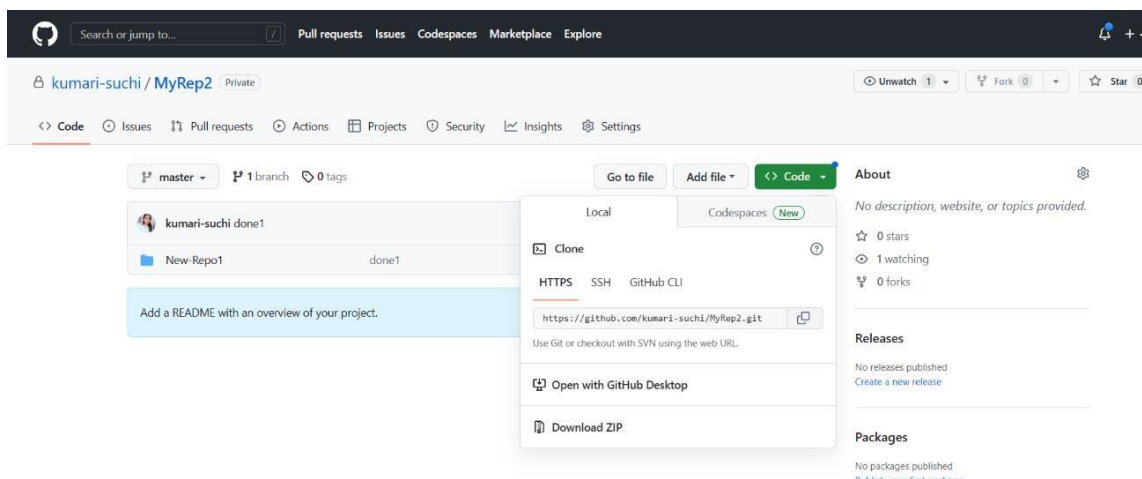
No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-4-15:~$ nginx -v
```

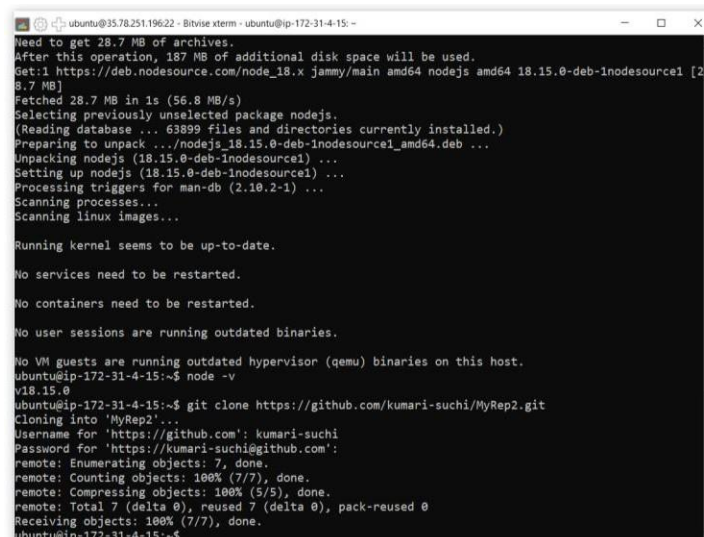
[OK]



8. Then go to your GitHub Repository which you want to upload in EC2 server. Then click on Code and copy the HTTPS link.



9. Then go to terminal and write git clone and paste HTTPS link which you copied. Then write ls then cd MyRep2 and then npm install.




```

ubuntu@35.78.251.19622 - Bitwise xterm - ubuntu@ip-172-31-4-15: ~/MyRep2/New-Repo1
Unpacking nodejs (18.15.0-deb-1nodesource1) ...
Setting up nodejs (18.15.0-deb-1nodesource1) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

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-172-31-4-15:~$ node -v
v18.15.0
ubuntu@ip-172-31-4-15:~$ git clone https://github.com/kumari-suchi/MyRep2.git
Cloning into 'MyRep2'...
Username for 'https://github.com': kumari-suchi
Password for 'https://kumari-suchi@github.com':
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 7 (delta 0), reused 7 (delta 0), pack-reused 0
Receiving objects: 100% (7/7), done.
ubuntu@ip-172-31-4-15:~$ cd MyRep2
ubuntu@ip-172-31-4-15:~/MyRep2$ dir
New-Repo1
ubuntu@ip-172-31-4-15:~/MyRep2$ cd New-Repo1
ubuntu@ip-172-31-4-15:~/MyRep2/New-Repo1$ dir
New\ Text\ Document.txt index.js package.json
ubuntu@ip-172-31-4-15:~/MyRep2/New-Repo1$ npm install

```

```

v18.15.0
ubuntu@ip-172-31-4-15:~$ git clone https://github.com/kumari-suchi/MyRep2.git
Cloning into 'MyRep2'...
Username for 'https://github.com': kumari-suchi
Password for 'https://kumari-suchi@github.com':
remote: Enumerating objects: 7, done.
remote: Counting objects: 100% (7/7), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 7 (delta 0), reused 7 (delta 0), pack-reused 0
Receiving objects: 100% (7/7), done.
ubuntu@ip-172-31-4-15:~$ cd MyRep2
ubuntu@ip-172-31-4-15:~/MyRep2$ dir
New-Repo1
ubuntu@ip-172-31-4-15:~/MyRep2$ cd New-Repo1
ubuntu@ip-172-31-4-15:~/MyRep2/New-Repo1$ dir
New\ Text\ Document.txt index.js package.json
ubuntu@ip-172-31-4-15:~/MyRep2/New-Repo1$ npm install
npm WARN deprecated uuid@3.4.0: Please upgrade to version 7 or higher. Older versions may use Math.random() in certain circumstances, which is known to be problematic. See https://v8.dev/blog/math-random for details.

added 258 packages, and audited 259 packages in 12s

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

found 0 vulnerabilities
npm notice
npm notice New minor version of npm available! 9.5.0 -> 9.6.4
npm notice Changelog: https://github.com/npm/cli/releases/tag/v9.6.4
npm notice Run npm install -g npm@9.6.4 to update!
npm notice
ubuntu@ip-172-31-4-15:~/MyRep2/New-Repo1$ node index.js

```

10. Then paste the IPv4 address on browser.



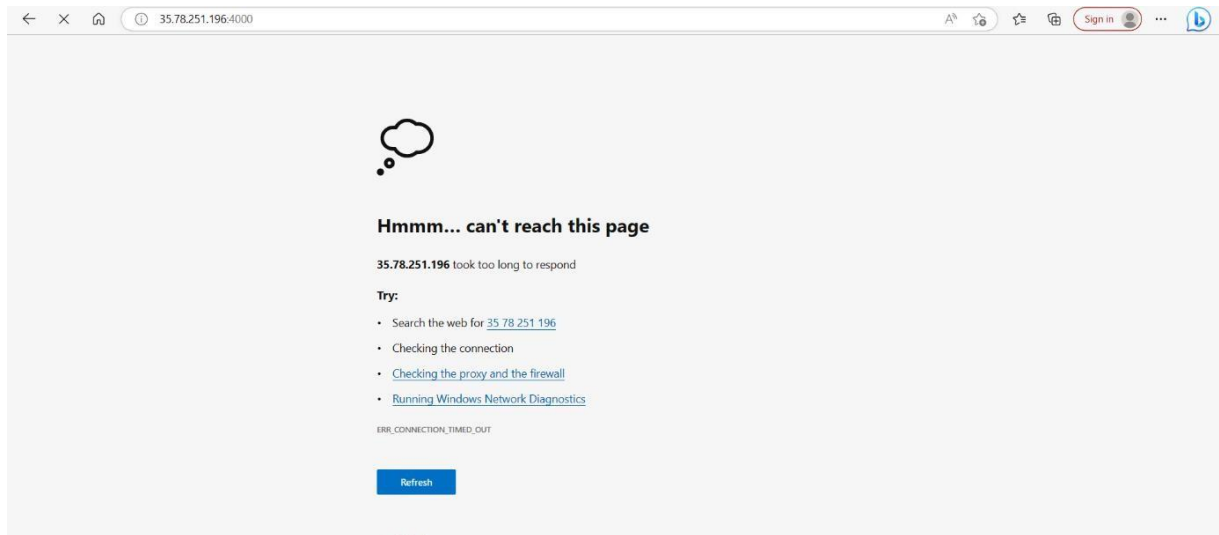
Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

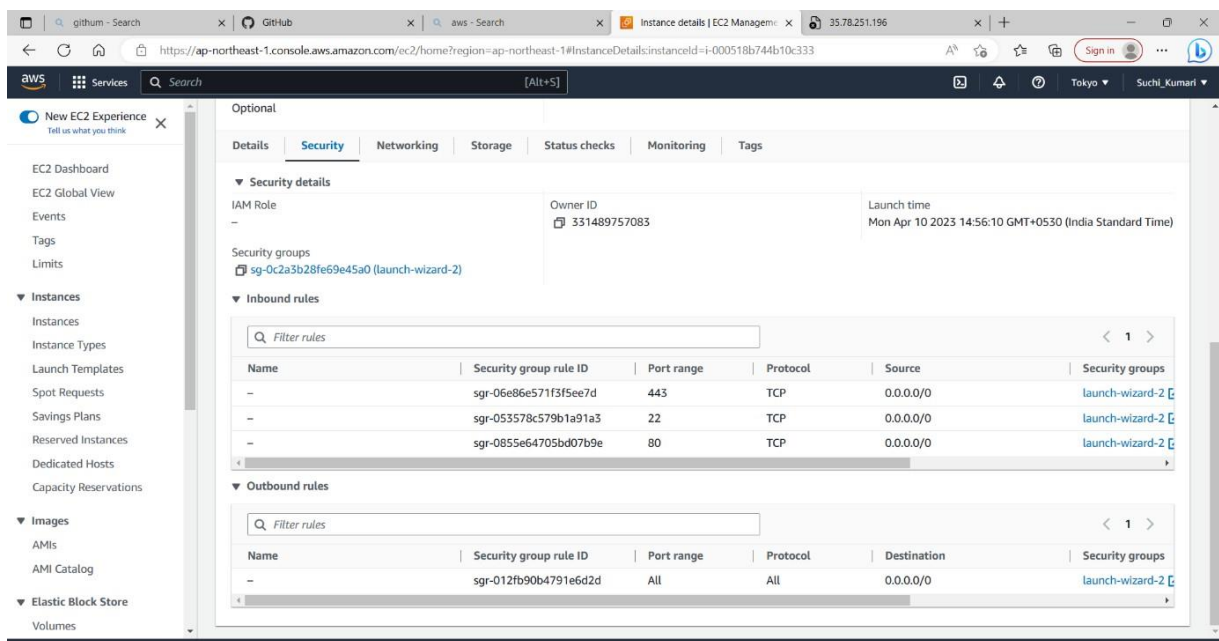
For online documentation and support please refer to nginx.org.
Commercial support is available at gginx.com.

Thank you for using nginx.

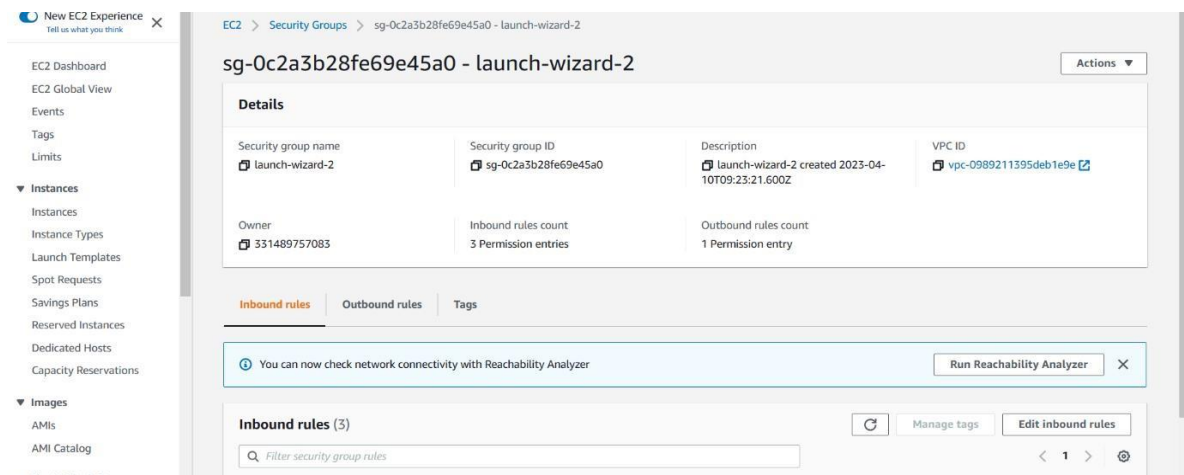
11. Then go to your repository and open index.js file and check the port no. which is written inside app.listen() method .Here port no. is 4000 then copy 4000 and paste it with the IPv4 address on new browser.



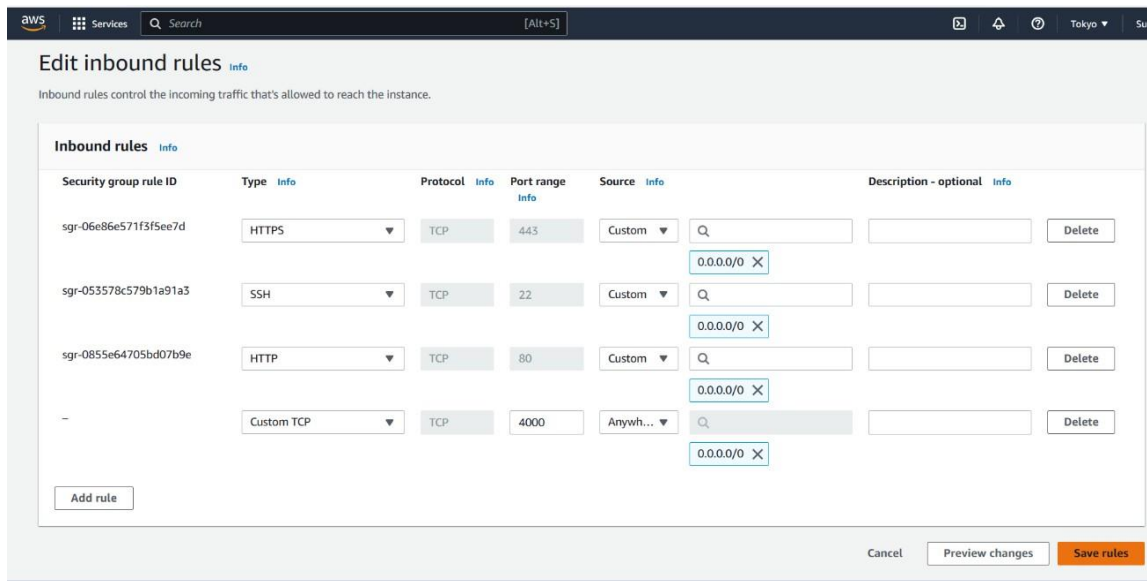
12. Then click on Security .Then go to Security groups



13. Then go to Inbound rules and click on Edit Inbound rules.



14. Then write 4000 port no. and source 0.0.0.0/0 then click on Save rules.



15. Then refresh the page where we paste the port no. along with IPv4 address now we can access our website. Now we have successfully deployed our project from GitHub to our EC2 server.



16. Now if you want to modify your code then open index.js and modify then commit changes then write some command on terminal as git pull and node index.js then refresh page then you can see what you were wrote on index.js file.

