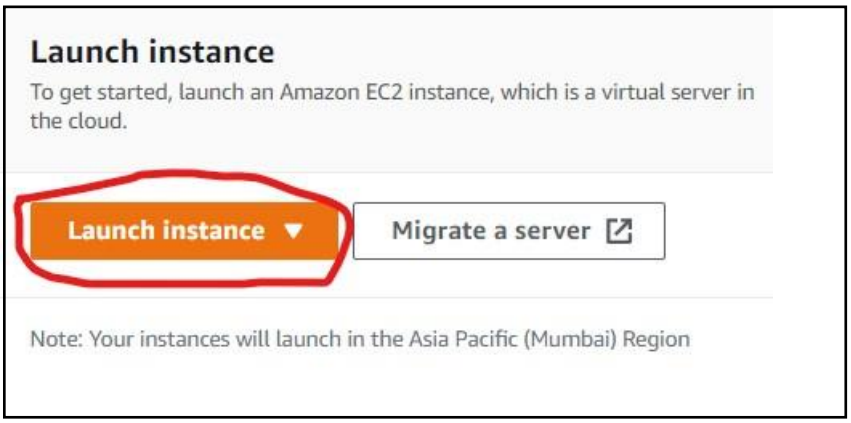
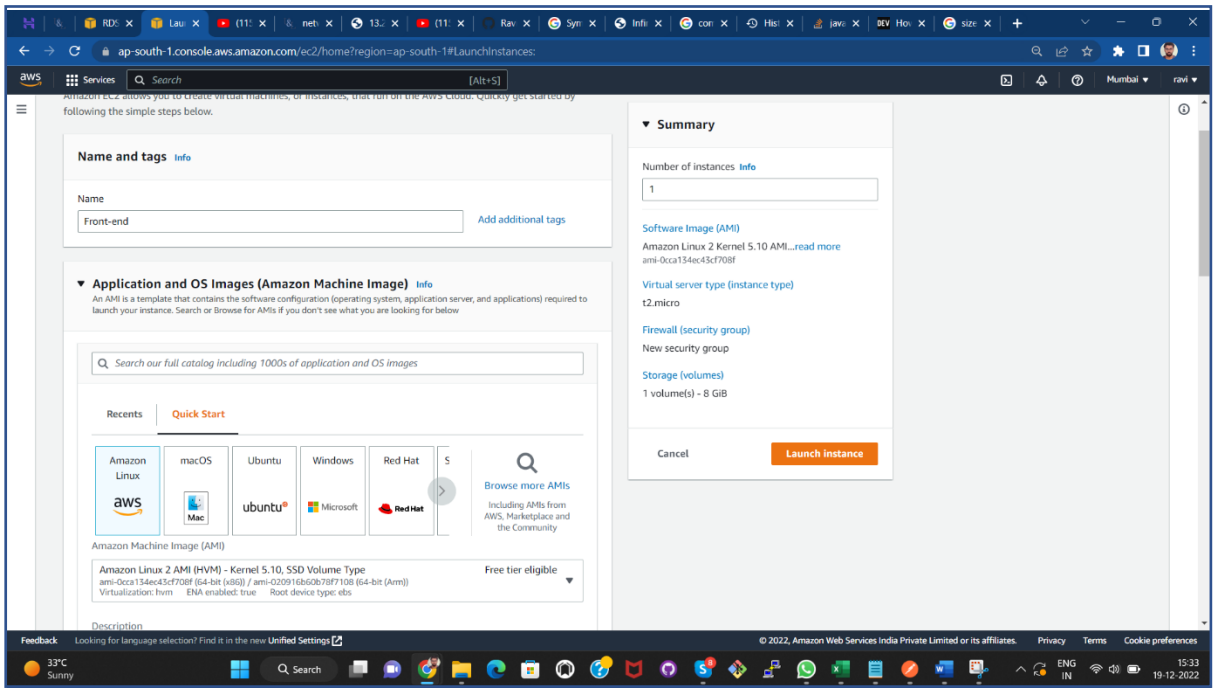
Title: Live Vue.js Front-end (serve project) project in Aws Ec2-Instance.

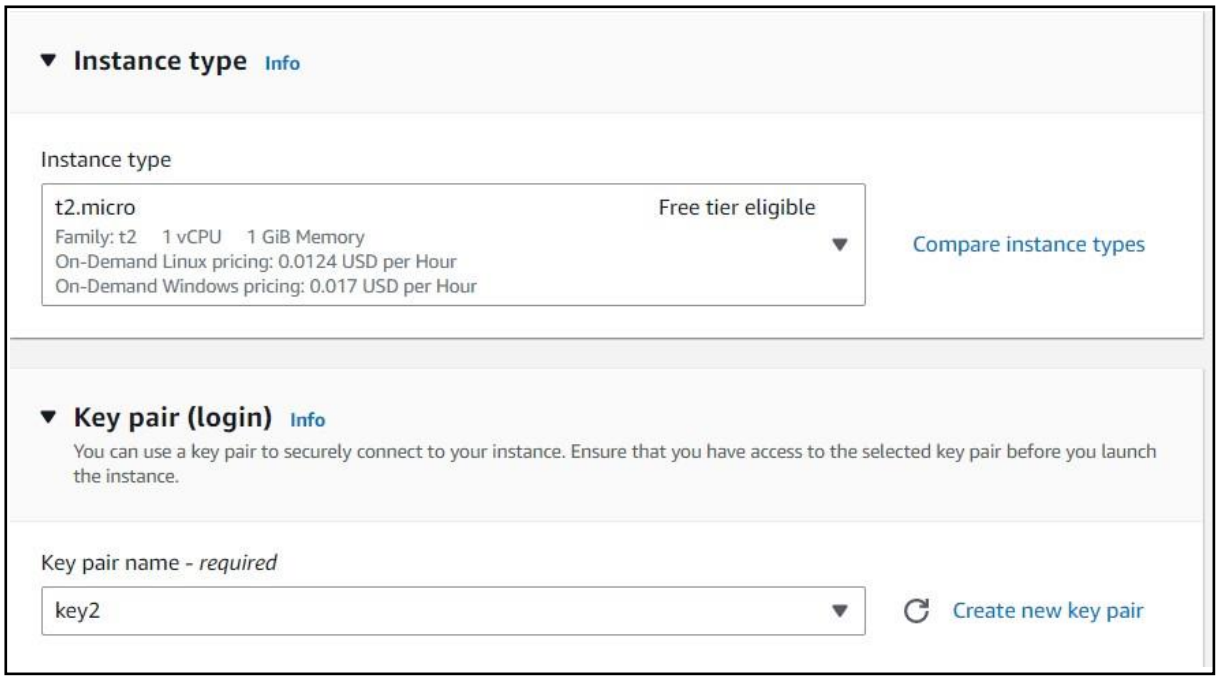
Step1: Open Ec2 and launch instance using option “Launch Instance.”



Step2: Give name that instance what you want and select ‘Ubuntu’ OS in “**Application and OS Images (Amazon Machine Image)**” option.



Step3: Select Instance Type (Instance types comprise varying combinations of CPU, memory, storage, and networking capacity and **give you the flexibility to choose the appropriate mix of resources for your applications**.) as per your website requirement, then select “key pair(login)” if you have one or create new one using “create new key pair” option.

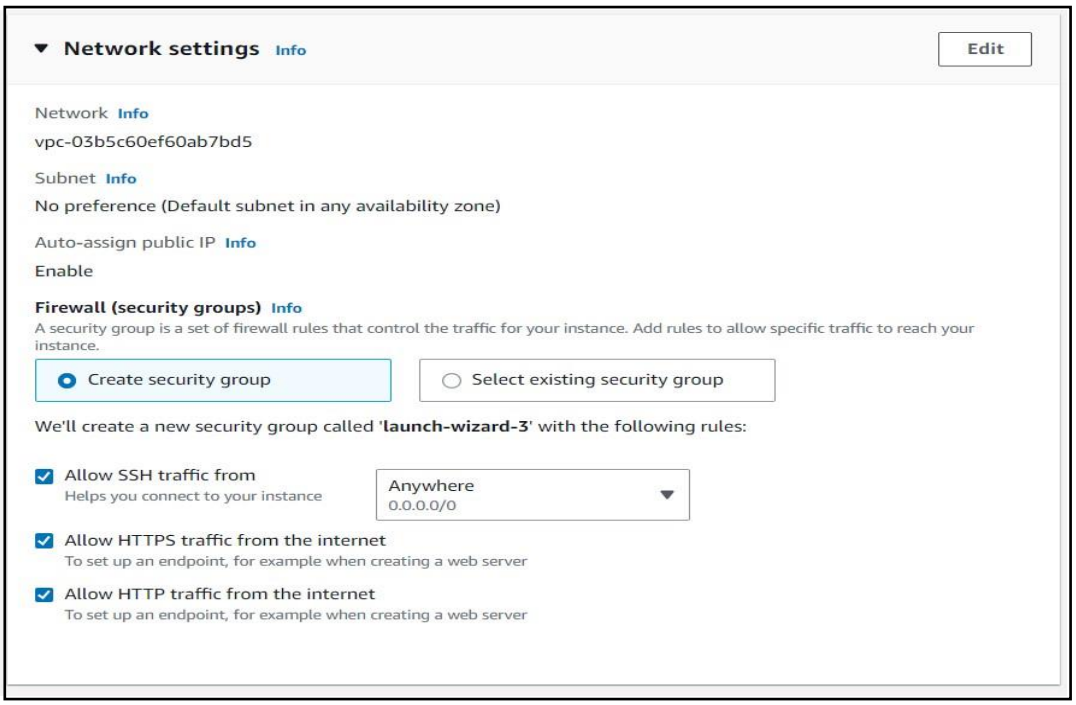


- For how to create keypair see documentation of “Front-end quasar project live” after step3 in it.

Step4:

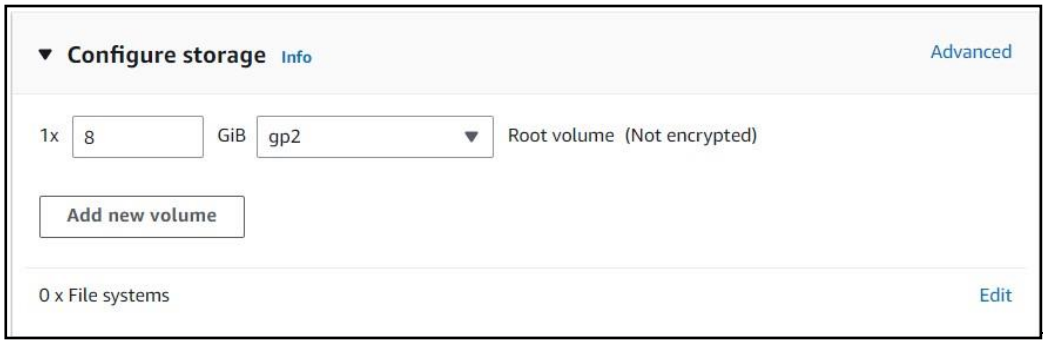
Network setting> Firewall (security groups) select “**Create security group**” if you don’t have one or if you already created security group select “**Select existing security group**” and then select the name of security group you created.

For “**Create security group**” option select check-box of “**Allow SSH traffic from, Allow HTTPS traffic from the internet, Allow HTTP traffic from the internet**”.



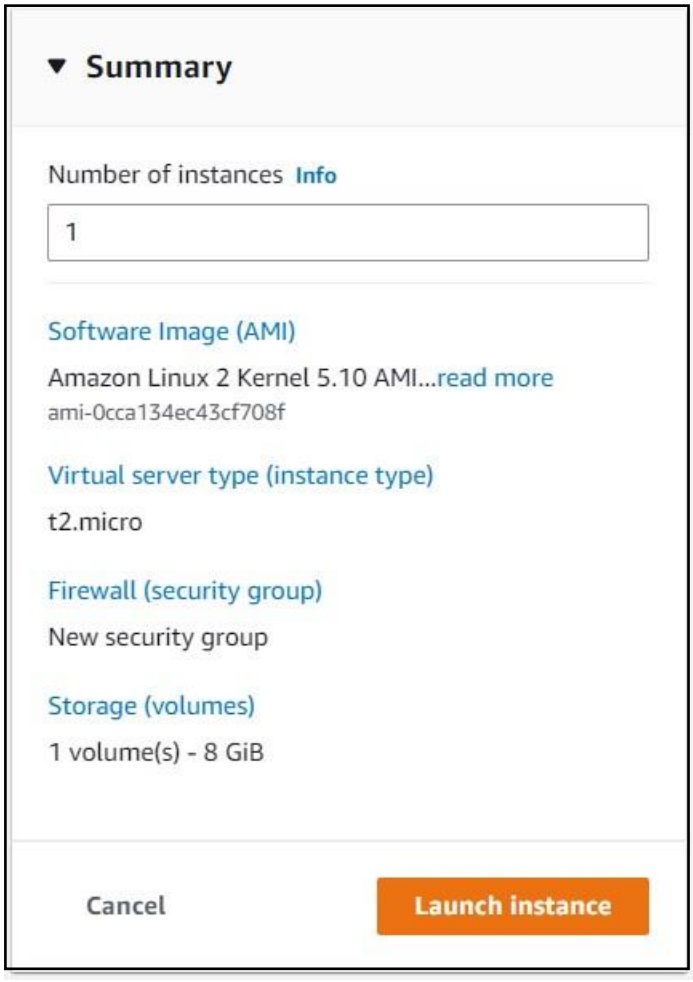
Step5:

In “**Configure Storage”** select size of storage as per limitation of EBS volume type. (Here I take 8gb in **gb2** EBS volume type, which’s limitation is up to 30gb for free tier eligible account.)



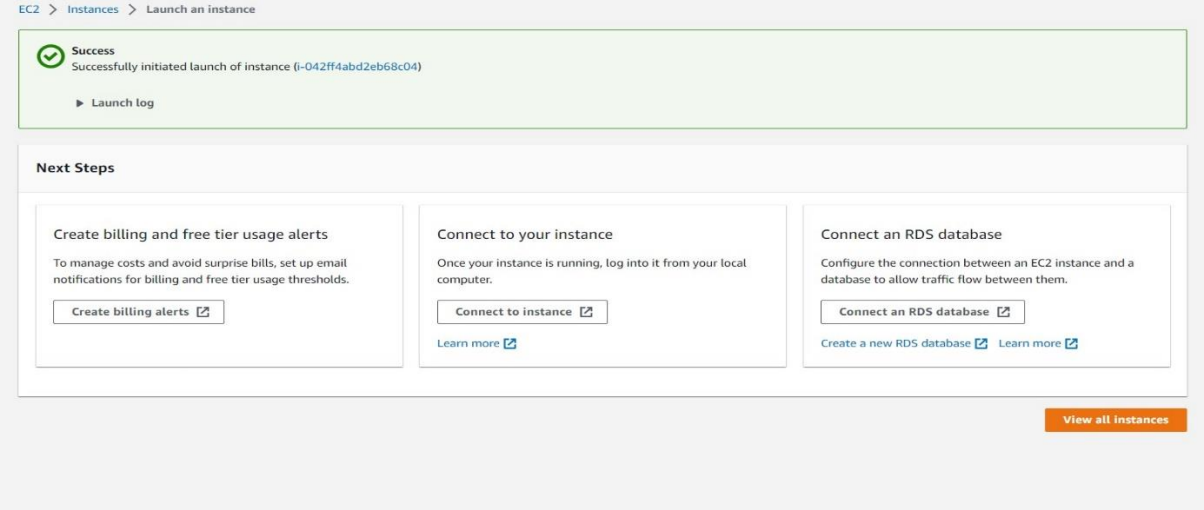
Step6:

Select **“Launch instance”** and launch it.



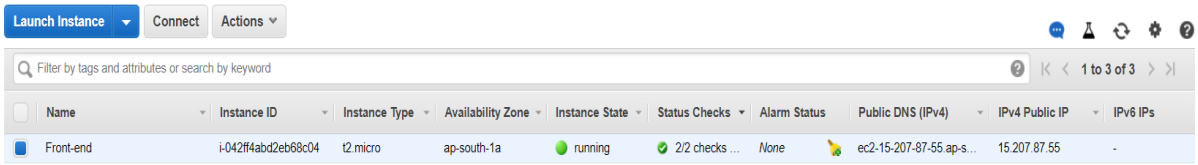
Step7:

Choose “**View all Instances**”



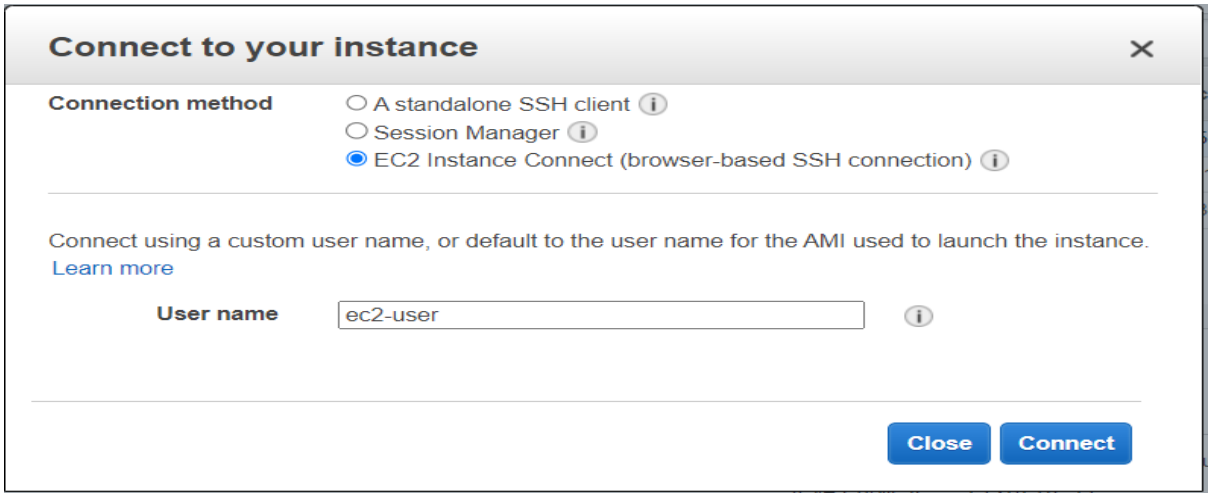
Step8:

Choose Option "**Connect**" after the "**Status Checks**" shows "**2/2checks**".



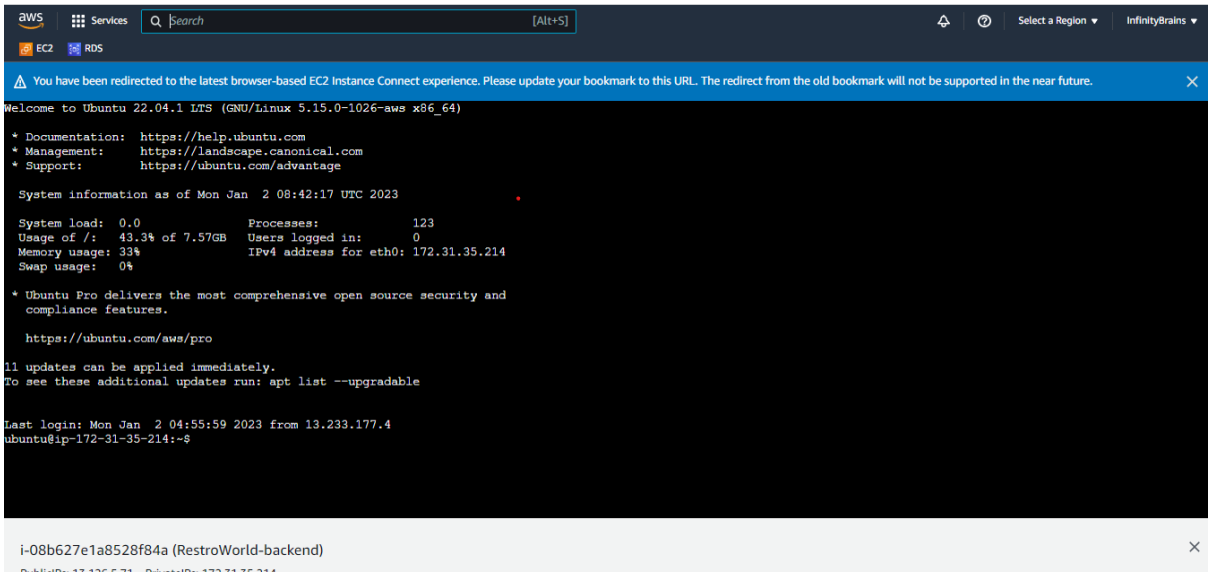
Step9:

Choose "**EC2 Instance Connect (browser-based SSH connection)**" and select "Connect" option.



Step 10:

This type of interface is open.



Now, first give following cmds :

sudo su

sudo apt-get update

- Active git using following cmd:

git init

- Create ssh key using following cmd in terminal

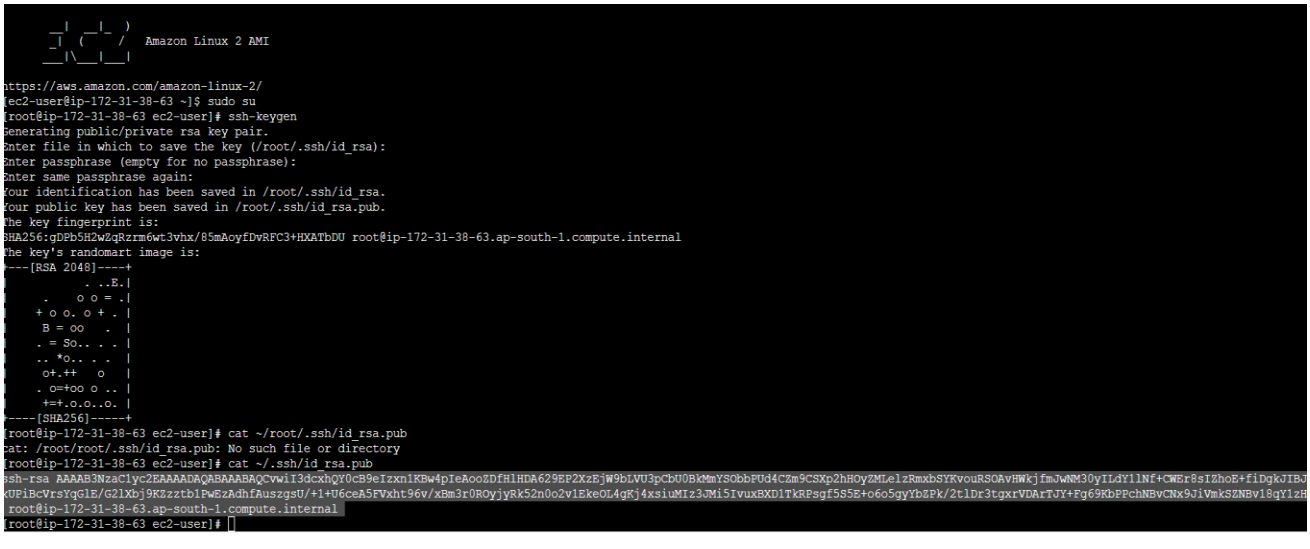
ssh-keygen

or

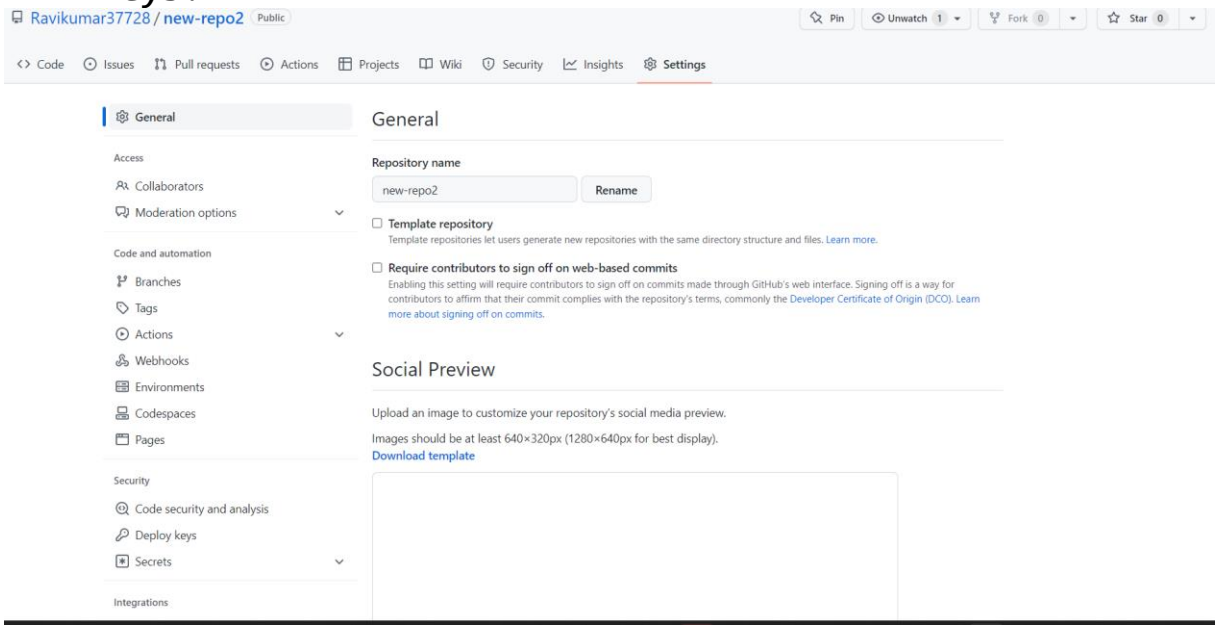
ssh-keygen -t ed25519 -C "mailto:youremailaddress@domain.tld DAY-MONTH-YEAR" -f ~/.ssh/my_key

- Use below shown cmd and then copy “id_rsa.pub” text data which have been shown below:

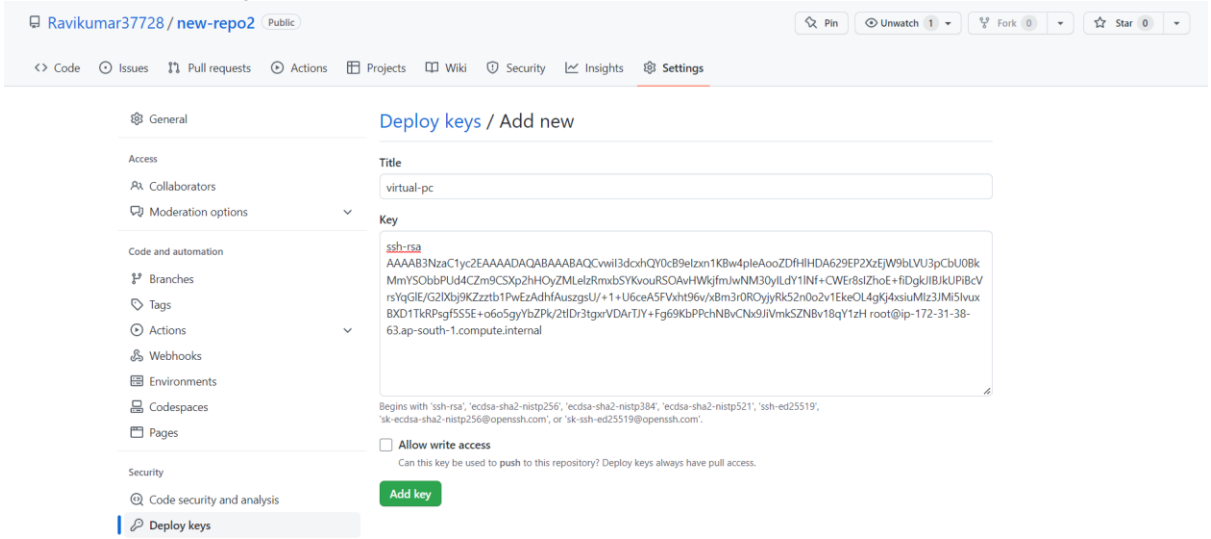
cat ~/.ssh/id_rsa.pub



- Paste it in git-hub source code repo.>settings>Deploy Keys.



- Paste copied text in there and named it. Then press “Add key”



Your key is ssh key is now added in git hub repo.

Step 11:

- Give following cmd for activate github repo in ec2.

ssh git@github.com

- Type “yes” in connecting
- Now git hub is successfully connected to your ec2 insatnces.

- Give following cmds:

  sudo apt-get install apache2

  sudo systemctl status apache2

NOTE: Now, if you're using a firewall, it is necessary to establish a rule in the Firewall so that Apache can run smoothly. If you have no firewall installed, feel free to skip this step

  sudo ufw allow "Apache Full"

- Open IPv4 public Ip on browser, this type of interface is open.

- Fire following cmds:

cd /var/www/html

sudo apt install php libapache2-mod-php php-mbstring php-xmlrpc php-soap php-gd php-xml php-cli php-zip php-bcmath php-tokenizer php-json php-pear

sudo apt-get install php8.1-mysql

apt-get update

sudo apt-get install mysql-server

curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.34.0/install.sh | bash

. ~/.nvm/nvm.sh

nvm install 16

- Remove index.html, which is create when we install apache2.

rm -rf index.html

- Now add ssh link in your following cmd and fire it in terminal

  git init

  git remote add origin (ssh link)
  e.g.
  git remote add origin git@github.com:Ravikumar37728/new-repo2.git

- Now use following cmd for pull codes in ec2 on path var/www/html.

  git pull origin Master

  or

  git pull origin main

  NOTE: main or master or other branch is depended upon which branch code you want to pull from git-hub repo.

- Now fire following cmds:

```
npm i npm@latest -g
// npm install --legacy-peer-deps
npm i @vue/cli-service --legacy-peer-deps
```

- fire following cmd:

```
sudo nano /etc/apache2/sites-available/000-default.conf
```

- add path in “DocumentRoot” /var/www/html/ to /var/www/html/dist
- add given below data just above the </VirtualHost> as we can see in fig.

```
<Directory “/var/www/html”>
    Options Indexes FollowSymLinks MultiViews
    AllowOverride All
    Require all granted
</Directory>
```

- fire following cmds

```
sudo a2enmod rewrite
```

sudo service apache2 restart

```
sudo apt update
sudo apt upgrade


sudo apt install software-properties-common
sudo add-apt-repository ppa:ondrej/php
sudo apt update
```

```
sudo apt install php8.1-fpm php8.1-common php8.1-mysql php8.1-xml php8.1-xmlrpc
php8.1-curl php8.1-gd php8.1-imagick php8.1-cli php8.1-dev php8.1-imap php8.1-
mbstring php8.1-soap php8.1-zip php8.1-bcmath -y
```

then fire following cmd:

```
nano /etc/apache2/apache2.conf
```

- go to the very bottom and paste this

```
<Directory "/var/www/html">

        AllowOverride All

</Directory>
```

- restart the apache2 service using below cmd.

service apache2 restart

- now browse ec2 IPv4 and your project is live.