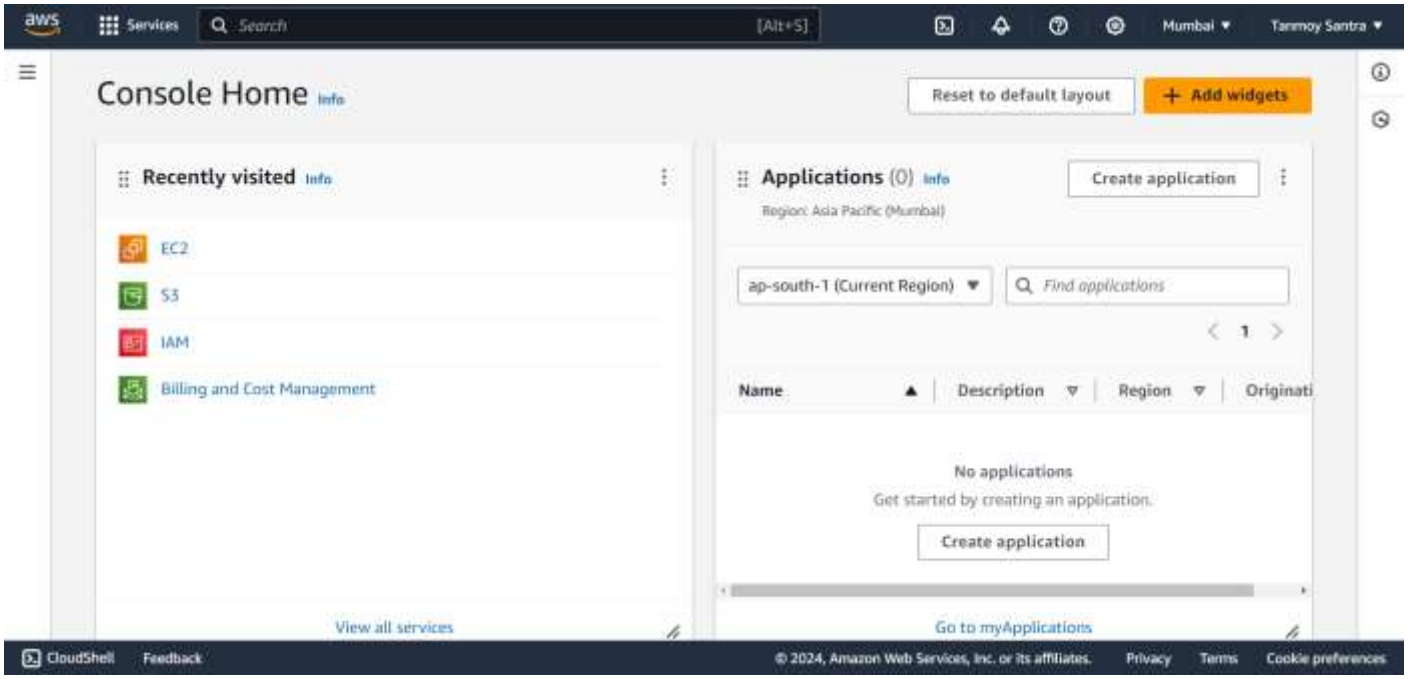
ASSIGNMENT - 7

PROBLEM STATEMENT - Hosting a Website on EC2.

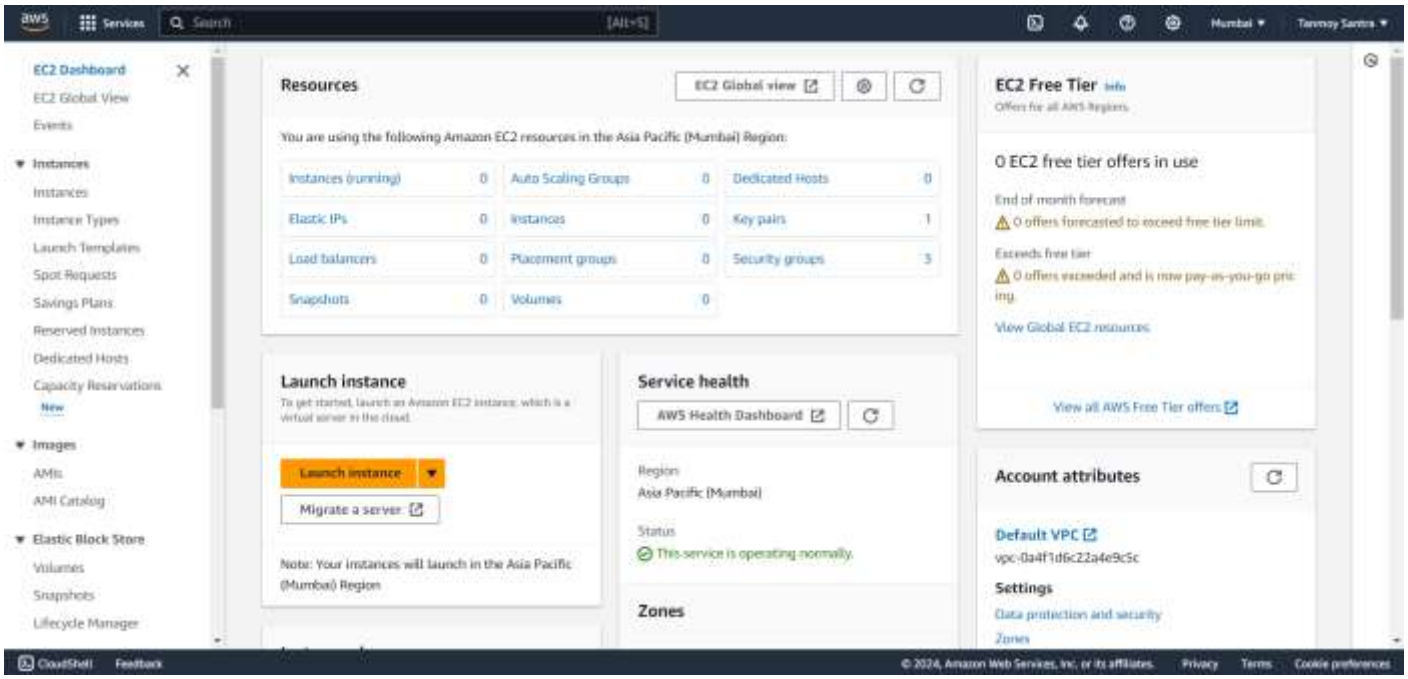
To host the website

STEP 1- Create 3 Static Webpages using HTML.

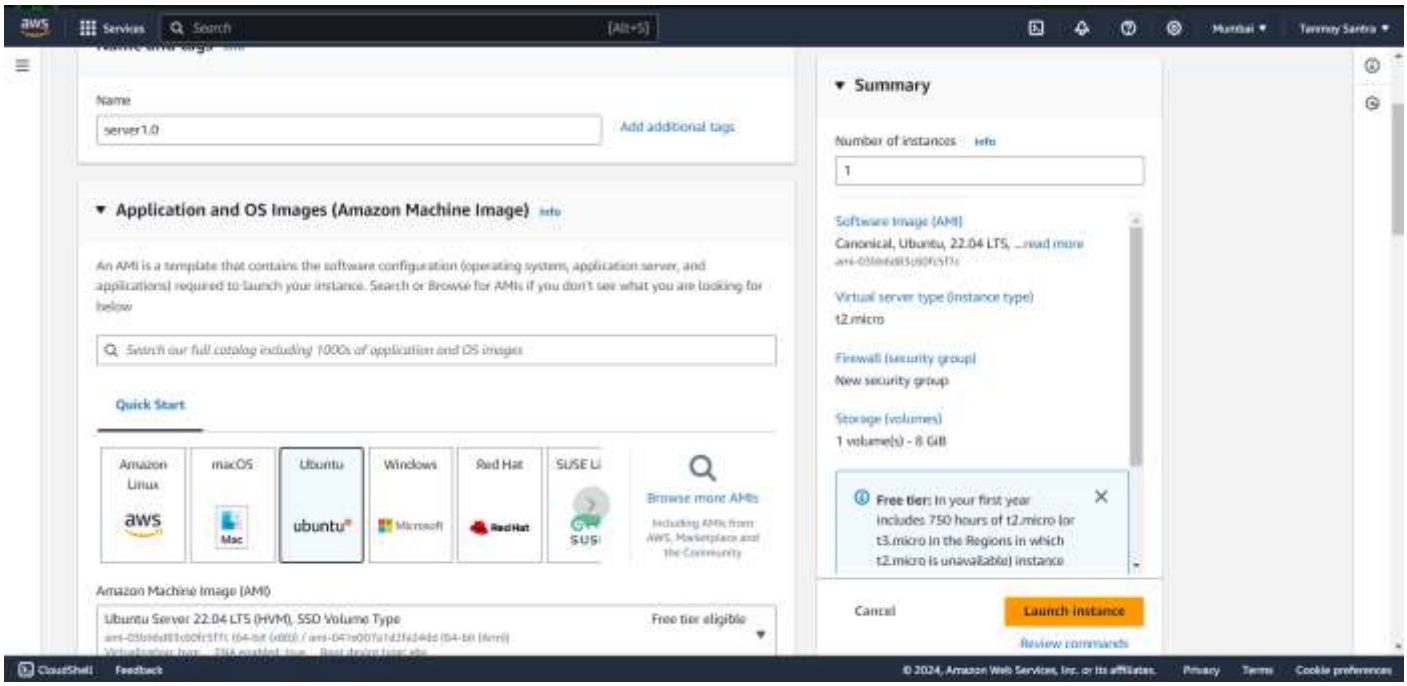
STEP 2- Click on the “EC2” button.



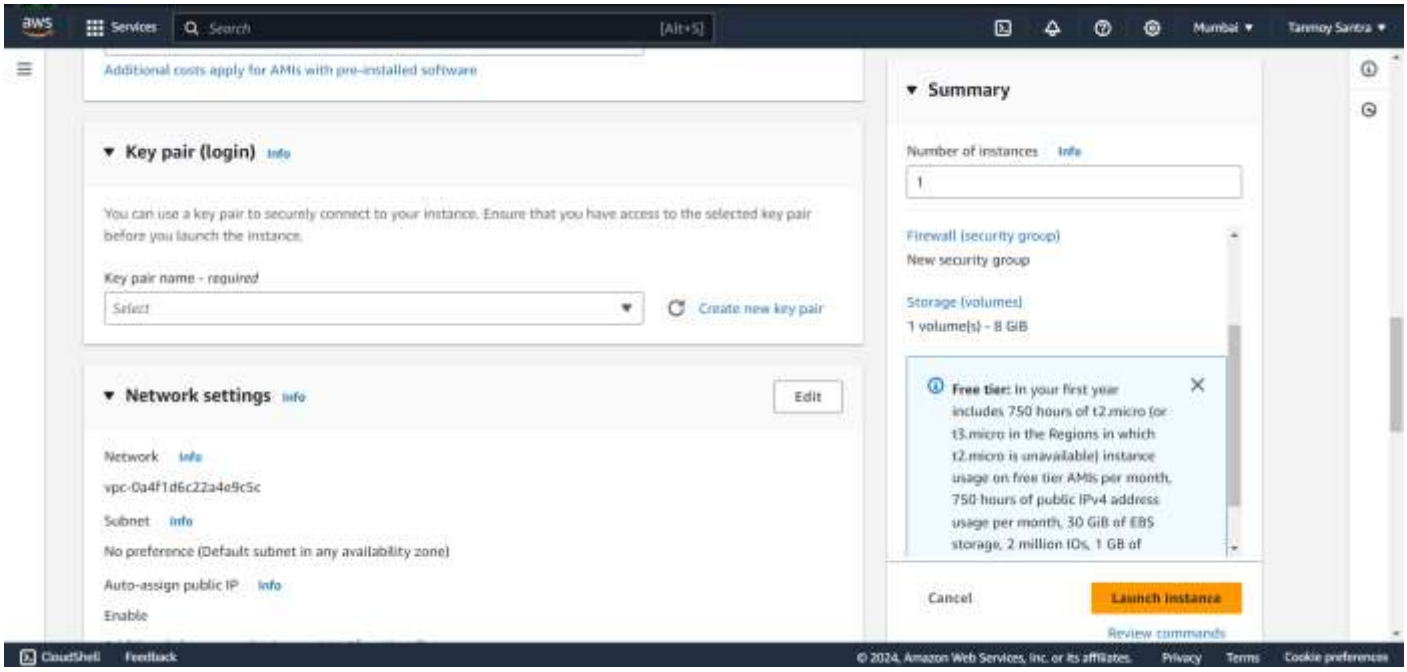
STEP 3- Click on the “Launch Instance” button.



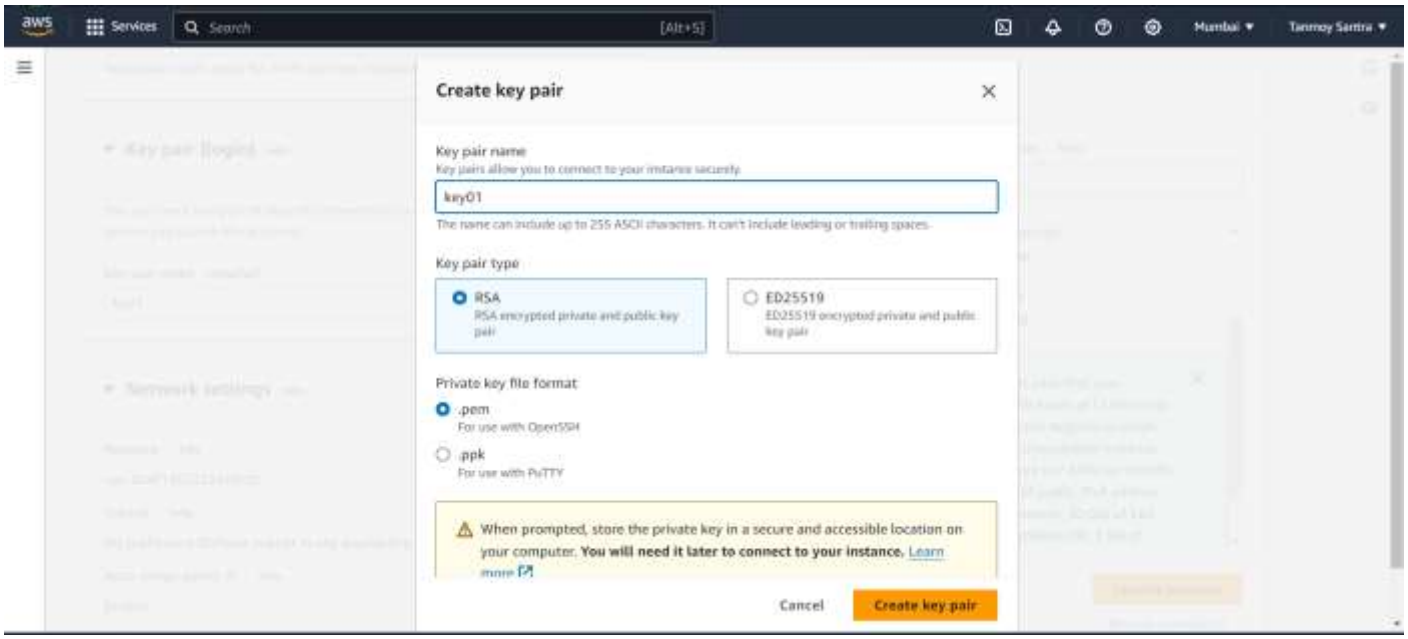
STEP 4- Give a name to the instance & select “Ubuntu” .



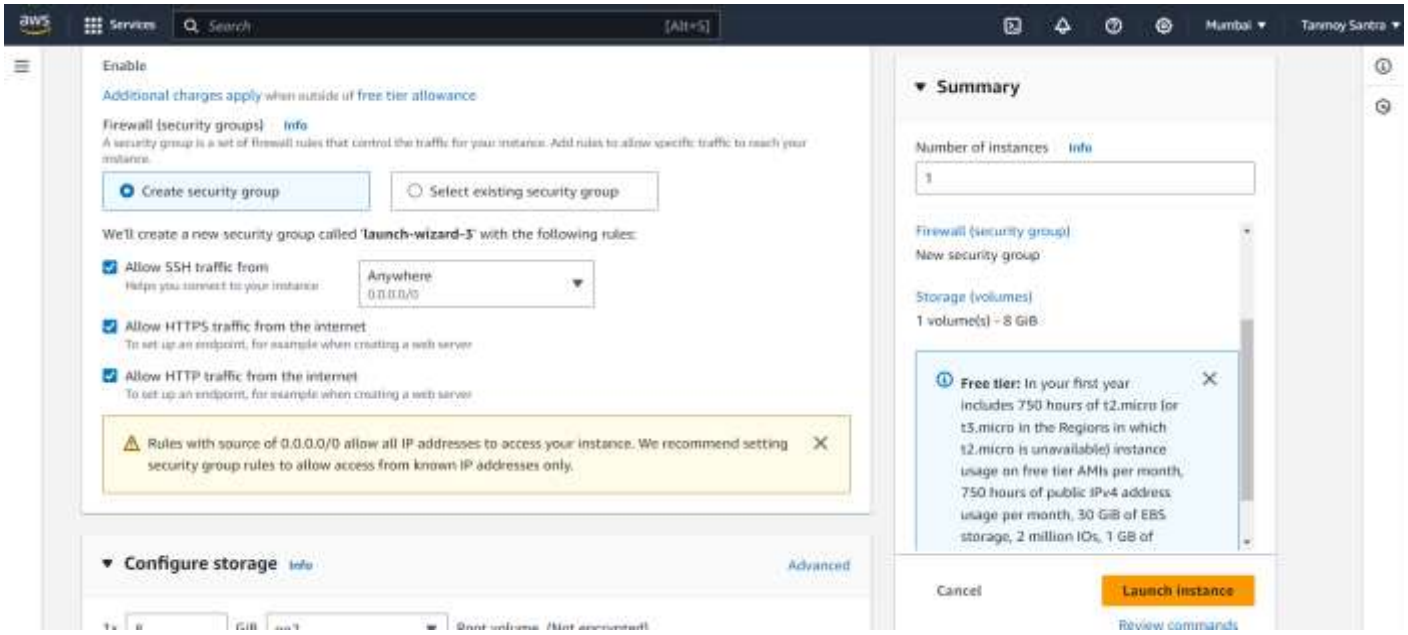
STEP 5- Create a new one by clicking on “Create New Key Pair” button.



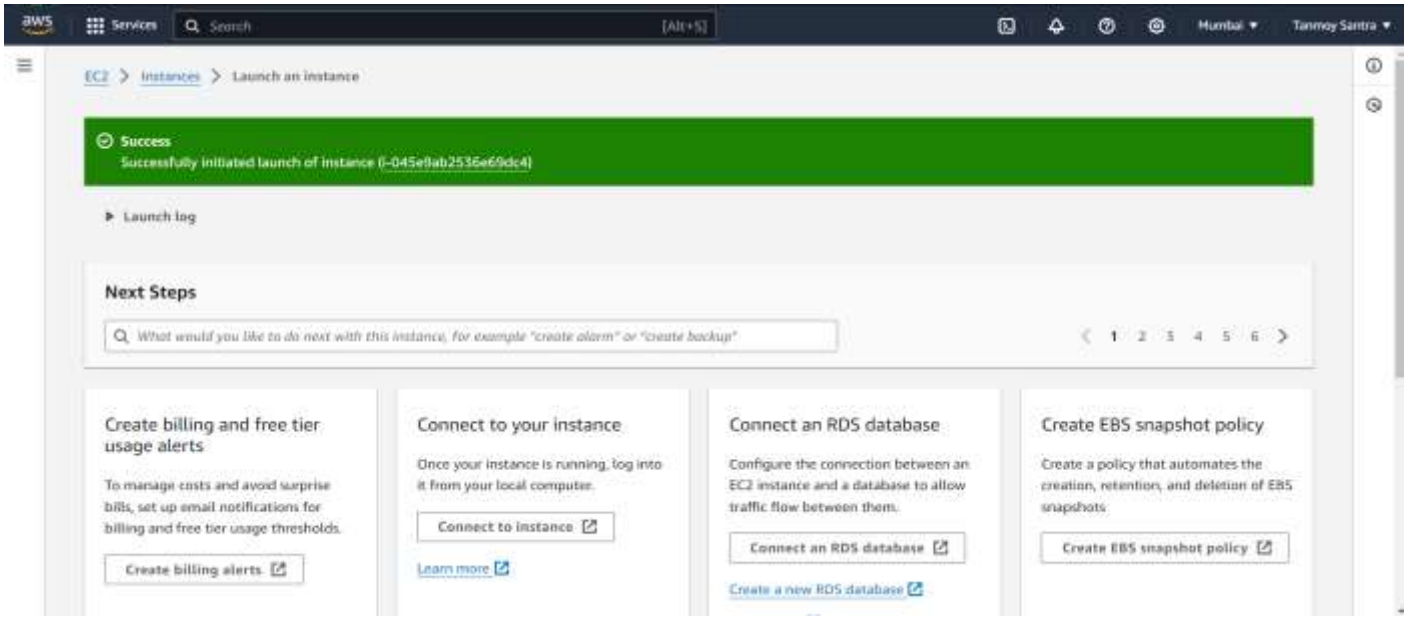
STEP 6- Give a name to the key pair. Then click “Create Key Pair”.



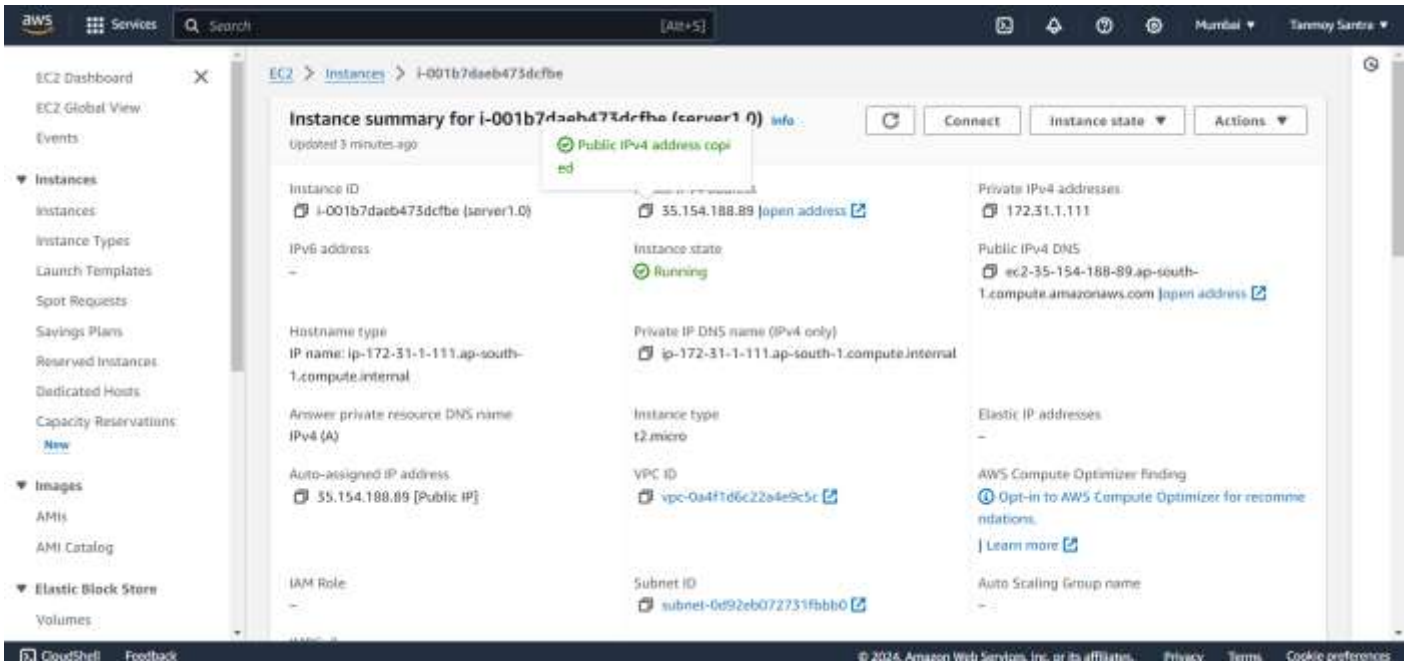
STEP 7- Select all the Security options. Then click on “Launch Instance”.



STEP 8- The new instance is thus created successfully. To Enter the Instance click on its ID.

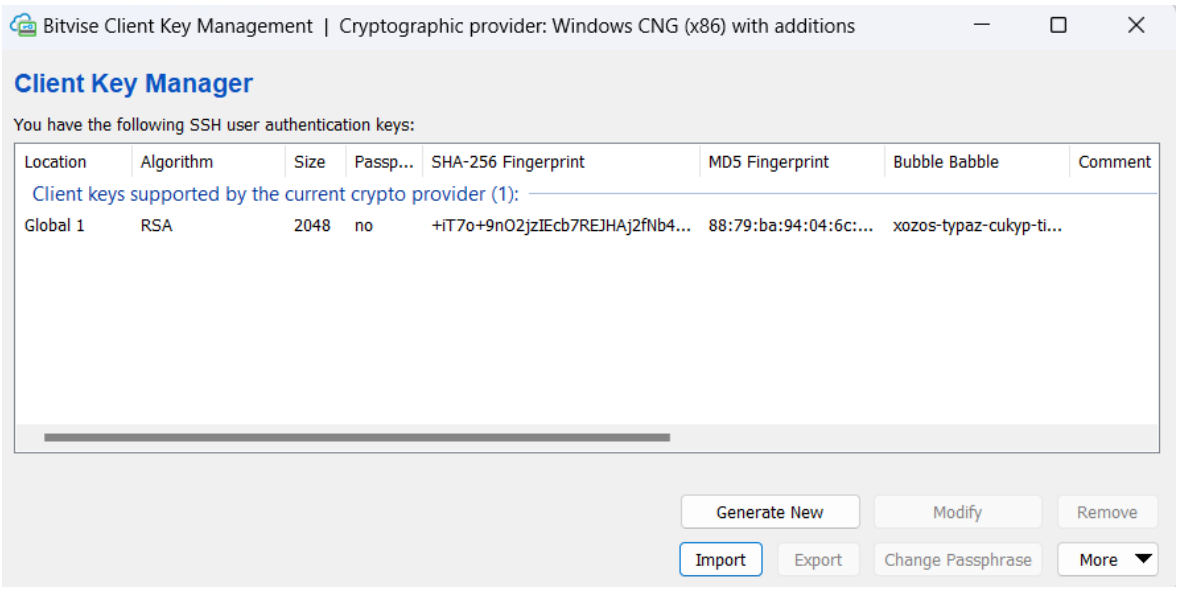


STEP 9- Copy the “Public IPv4 Address” of the instance.



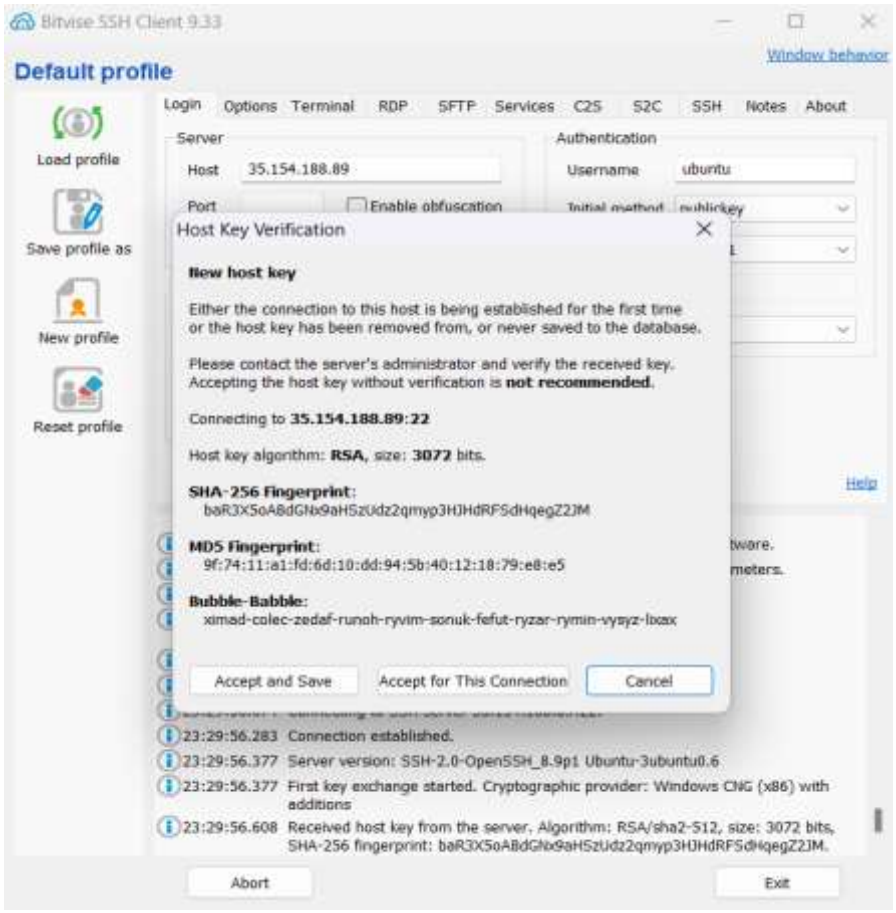
STEP 10- open SSH client Paste IP address under Host. Then go to the “Client Key Manager” option.

STEP 11- Click on the “Import” button & select the key & click “Import”. The new key is successfully added. Click “Import”.

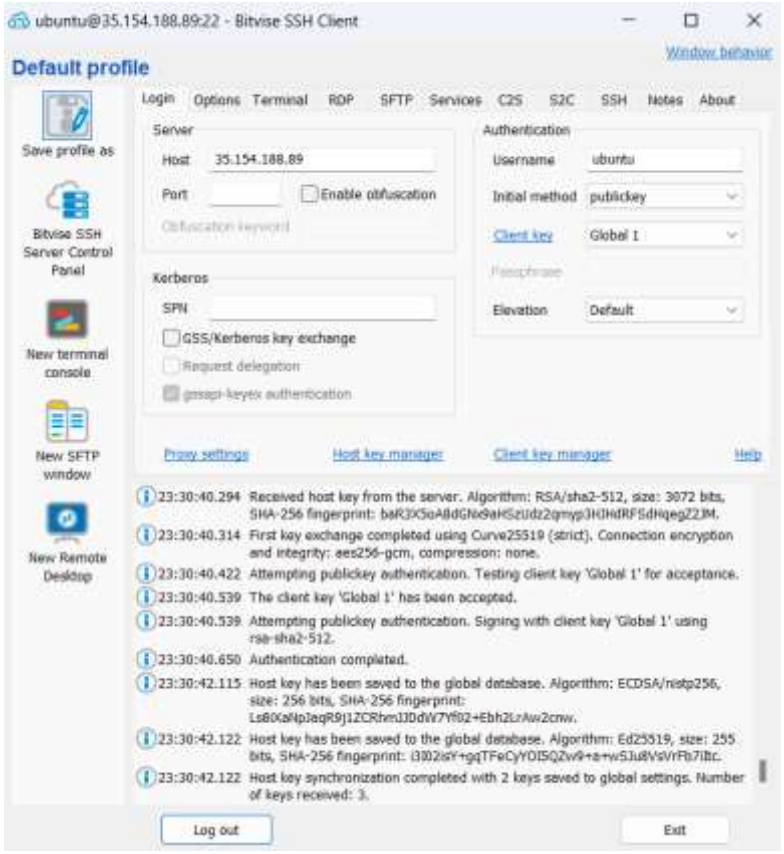


STEP 12- Give the username as “ubuntu, select “Public Key” & ” select “Global1”. Then click the “Log in”button.

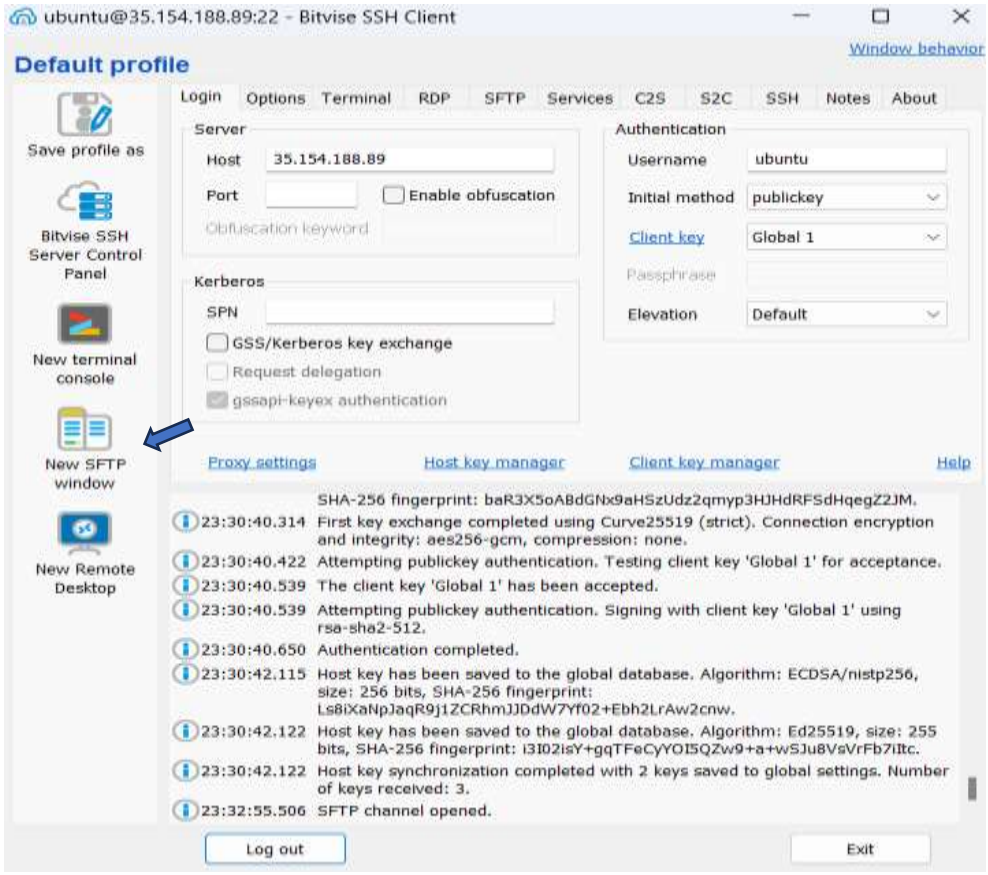
STEP 13- Click on the “Accept & Save” button.



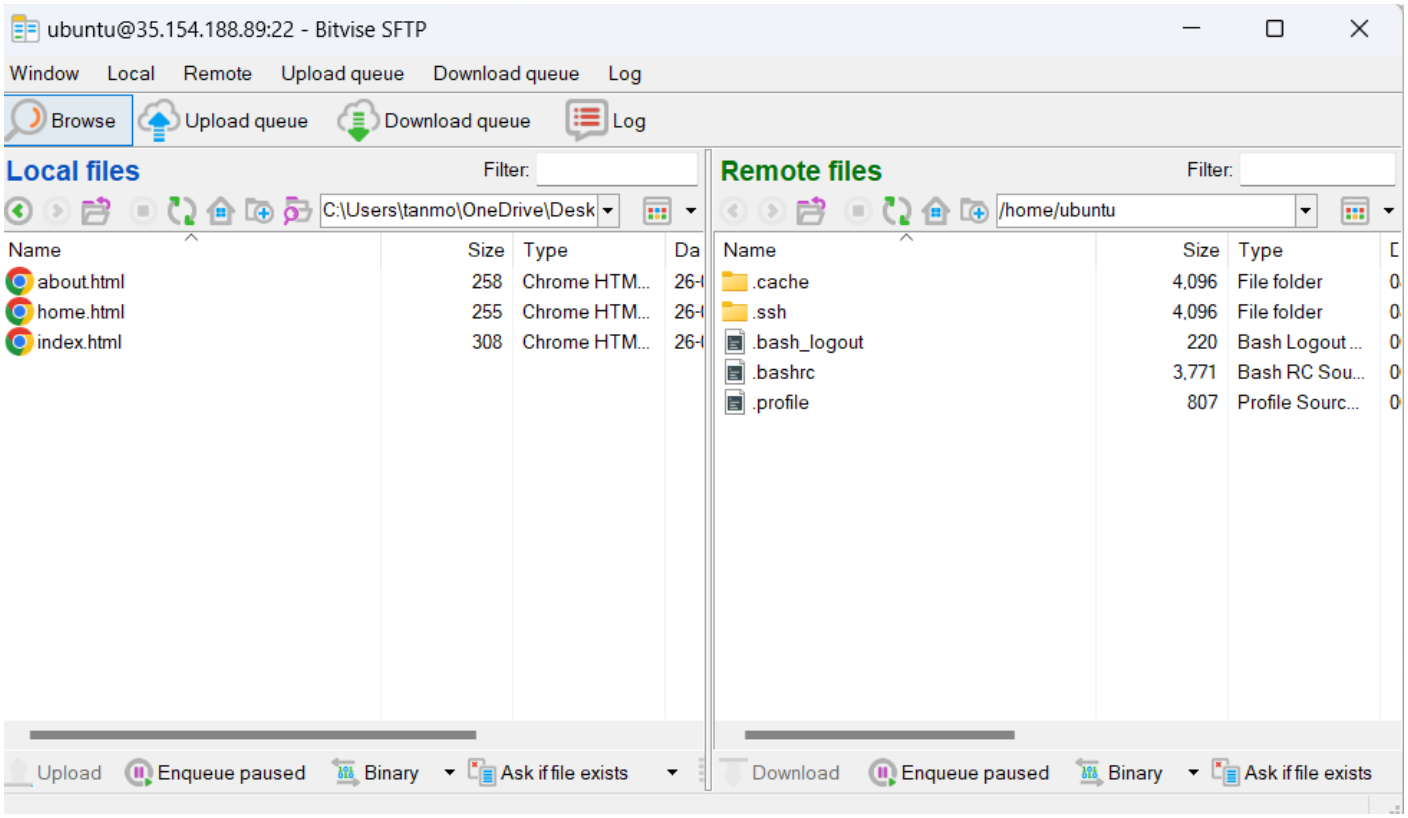
STEP 14- Now the client is connected.



STEP 15- Click on the “New SFTP Window” button.



STEP 16- Under Local Files open the folder where the HTML files are present.



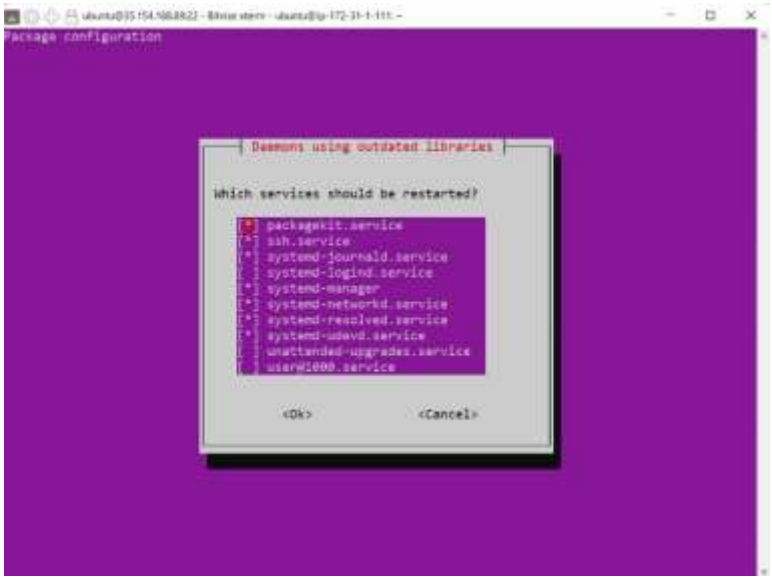
STEP 17- Go to the terminal and type the following commands.

“ sudo apt-get update “ , ” sudo apt-get upgrade “ , “ sudo apt-get install nginx ”

```
ubuntu@ip-172-31-1-111:~$ sudo apt-get update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
```

```
ubuntu@ip-172-31-1-111:~$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages have been kept back:
  dpkg linux-aws linux-headers-aws linux-image-aws
The following packages will be upgraded:
```

Press ‘tab’ then ‘ok’ hit enter.




```
ubuntu@ip-172-31-1-111:~$ sudo apt-get install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo8
  libjpeg8 libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter
  libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libtiff5 libwebp7 libxpm4
  nginx-common nginx-core
Suggested packages:
  libgd-tools fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo8
  libjpeg8 libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter
  libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libtiff5 libwebp7 libxpm4 nginx
  nginx-common nginx-core
0 upgraded, 20 newly installed, 0 to remove and 4 not upgraded.
Need to get 2693 kB of archives.
After this operation, 8350 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

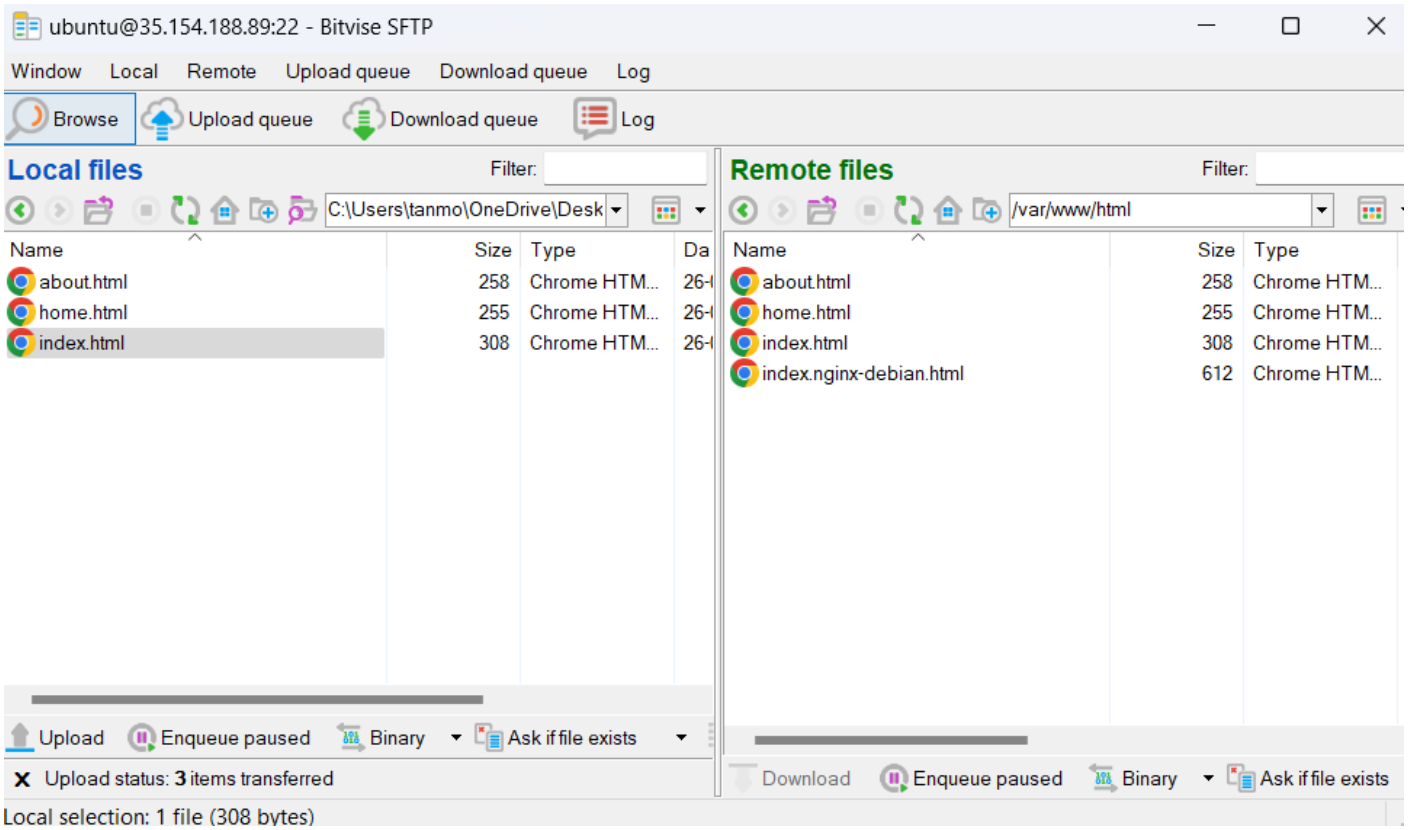
STEP 18- Type the command

“sudo chmod 777 html” and press “Enter”.

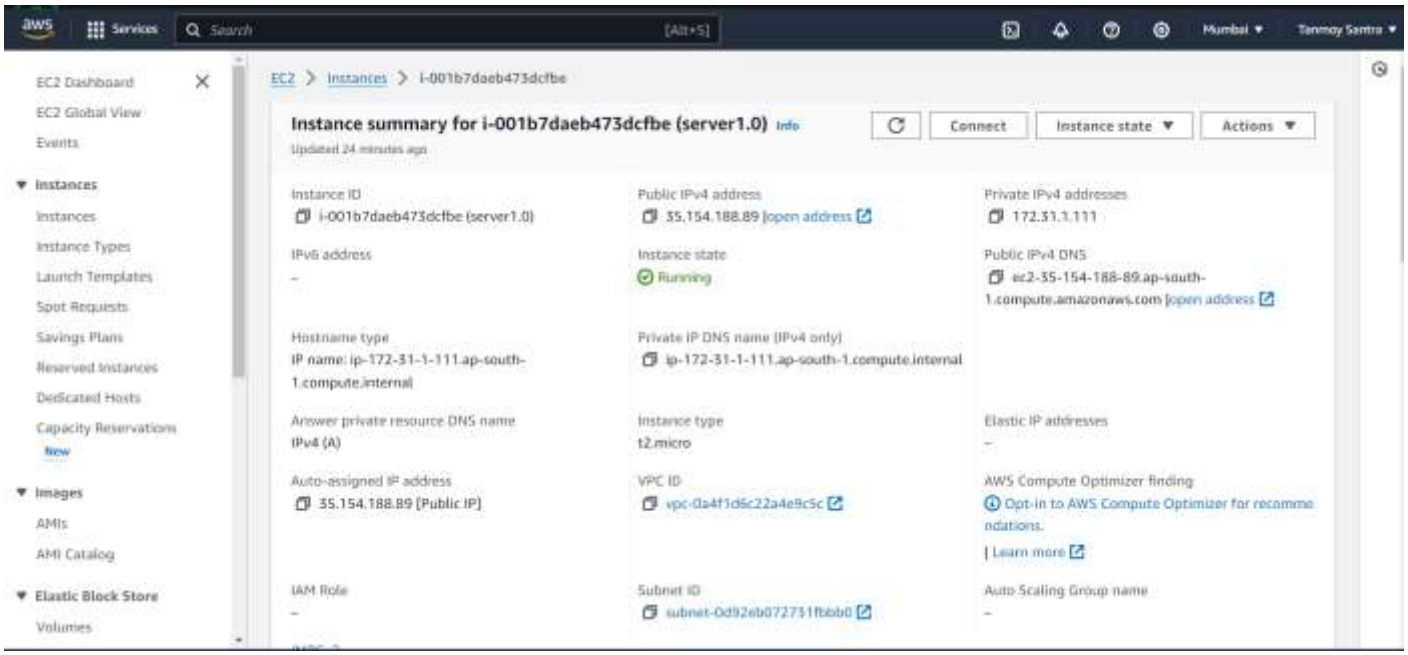
```
ubuntu@ip-172-31-1-111:~$ cd /
ubuntu@ip-172-31-1-111:/$ ls
bin   dev  home  lib32  libx32      media  opt   root  sbin  srv  tmp  var
boot  etc  lib   lib64  lost+found  mnt    proc  run   snap  sys  usr
ubuntu@ip-172-31-1-111:/$ cd var
ubuntu@ip-172-31-1-111:/var$ ls
backups  cache  crash  lib  local  lock  log  mail  opt  run  snap  spool  tmp  www
ubuntu@ip-172-31-1-111:/var$ cd www
```

```
ubuntu@ip-172-31-1-111:/var/www$ sudo chmod 777 html
ubuntu@ip-172-31-1-111:/var/www$ cd html
ubuntu@ip-172-31-1-111:/var/www/html$ ls
index.nginx-debian.html
ubuntu@ip-172-31-1-111:/var/www/html$
```

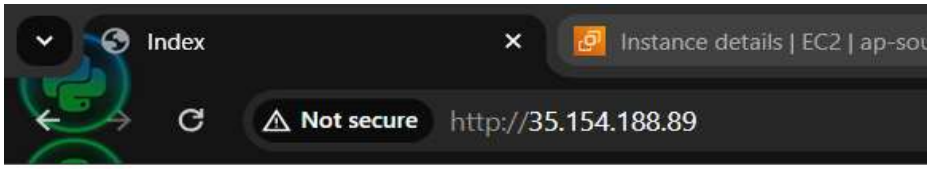
STEP 19- Now going back to the “SFTP Window” under the “Remote Files” open the HTML directory and drag & drop the HTML files.



STEP 20- Now go back to the “AWS Window” and click on the “Open Address” button beside the IP address.

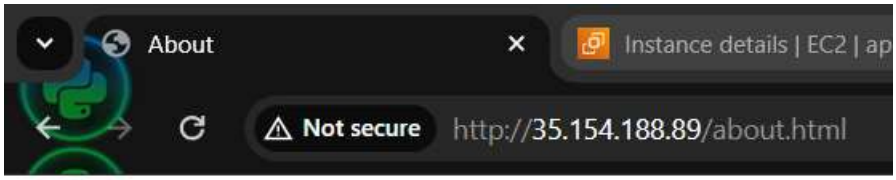


STEP 21- A new window will open with the webpage.



Inside index.html

Home About



About

Inside About page