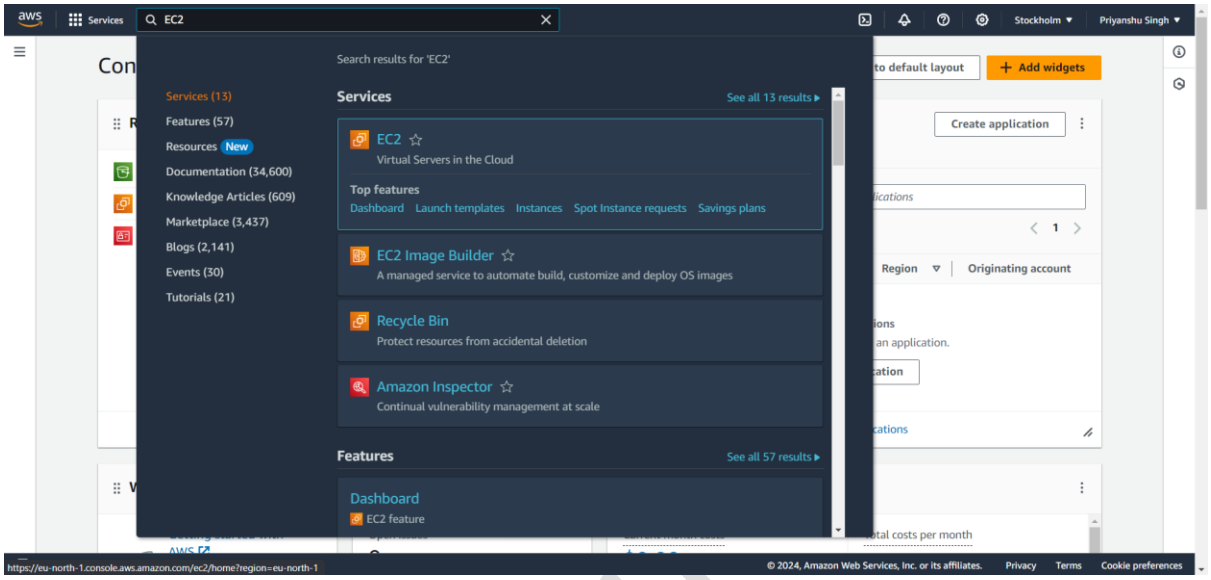
ASSIGNMENT -> 7

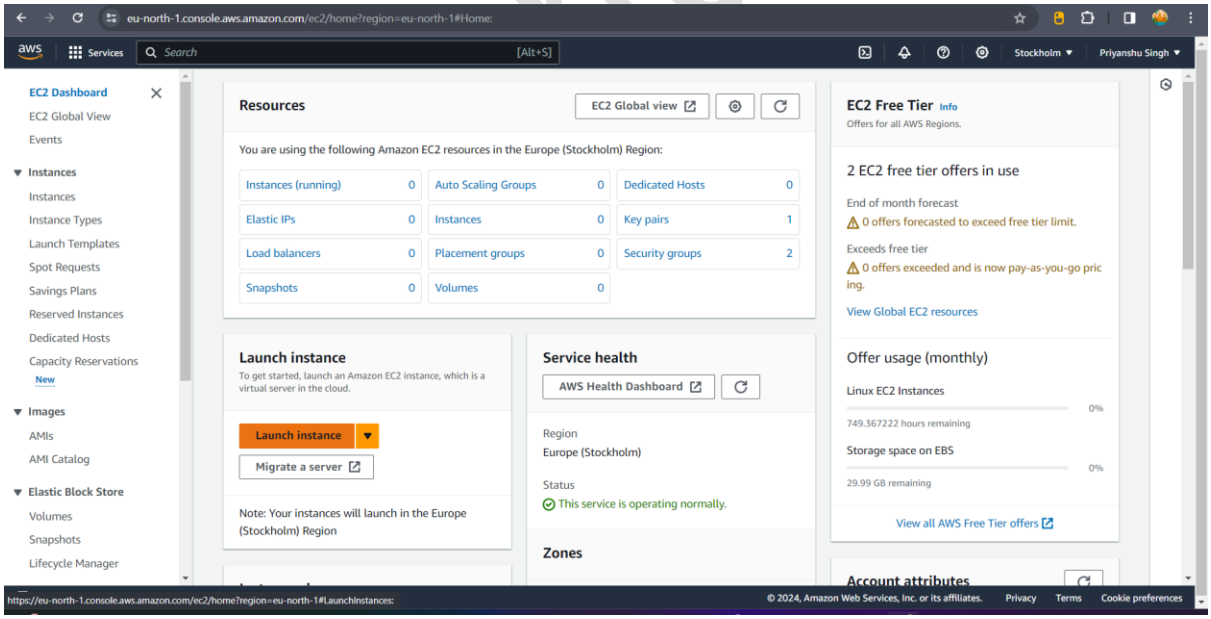
PROBLEM STATEMENT -> **Hosting a Website on EC2**.

To host the website -> STEP 1-> Create 3 Static Webpages using HTML.

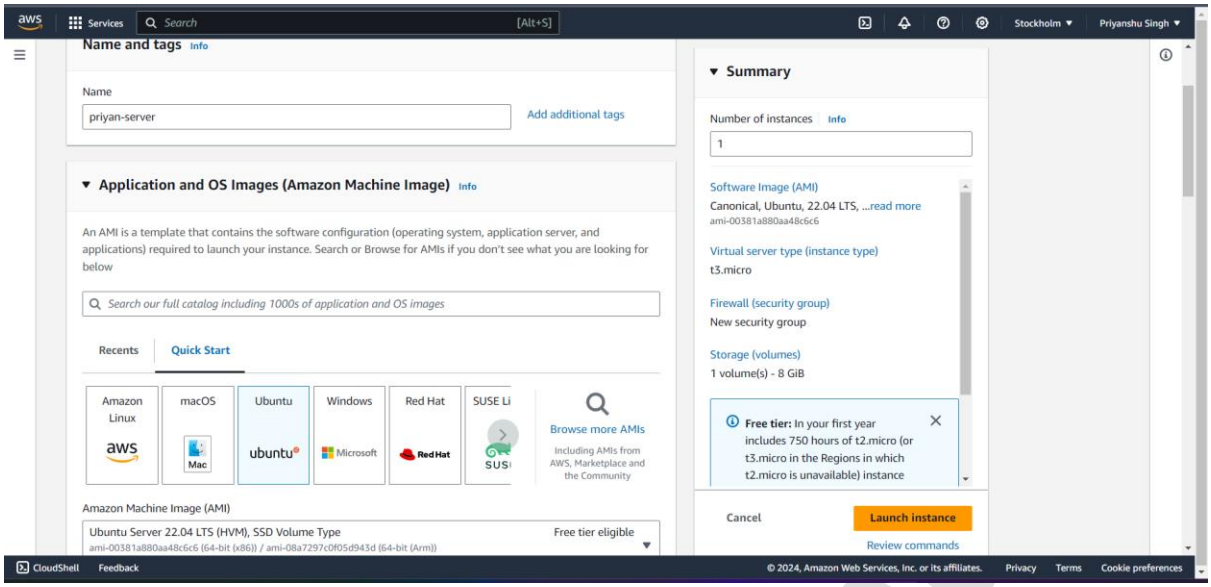
STEP 2-> Click on the “EC2” button.



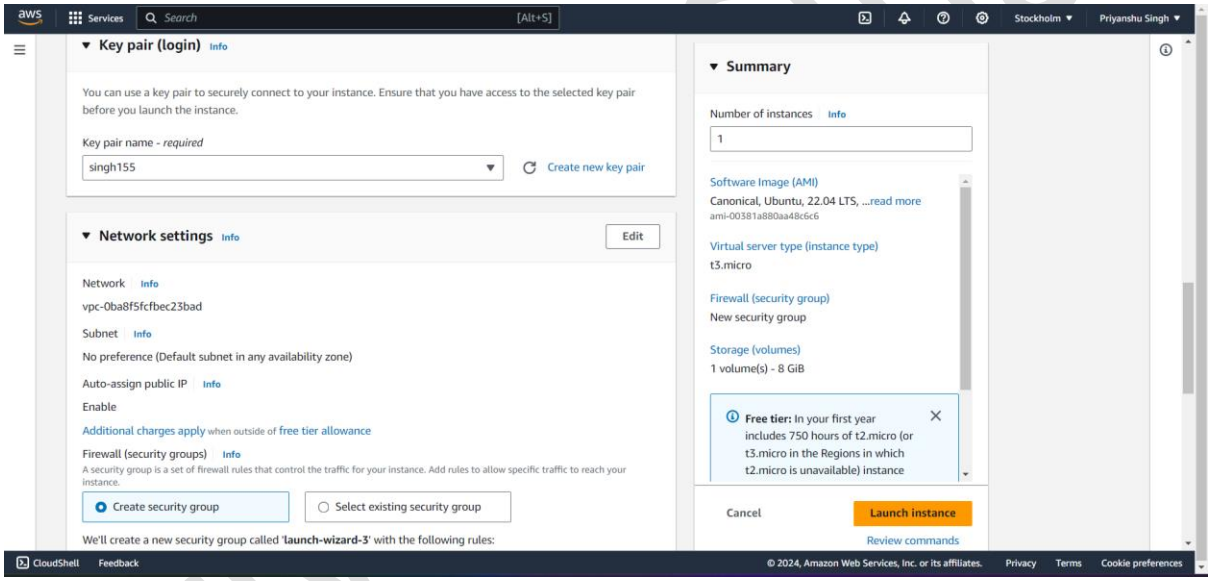
STEP 3-> Click on the “Launch Instance” button.



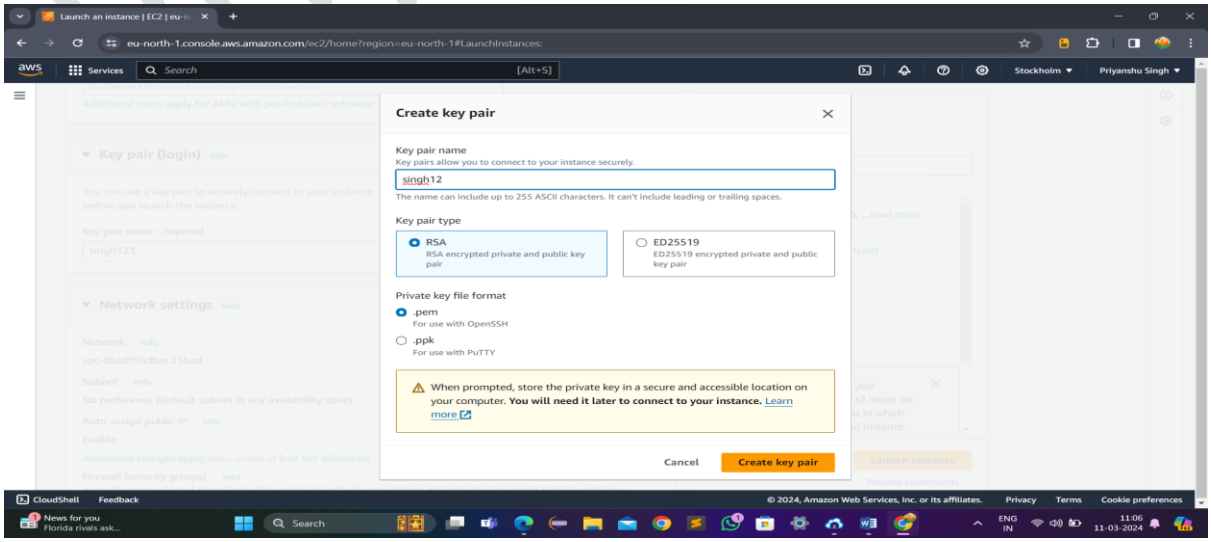
STEP 4-> Give a name to the instance & select “Ubuntu” .



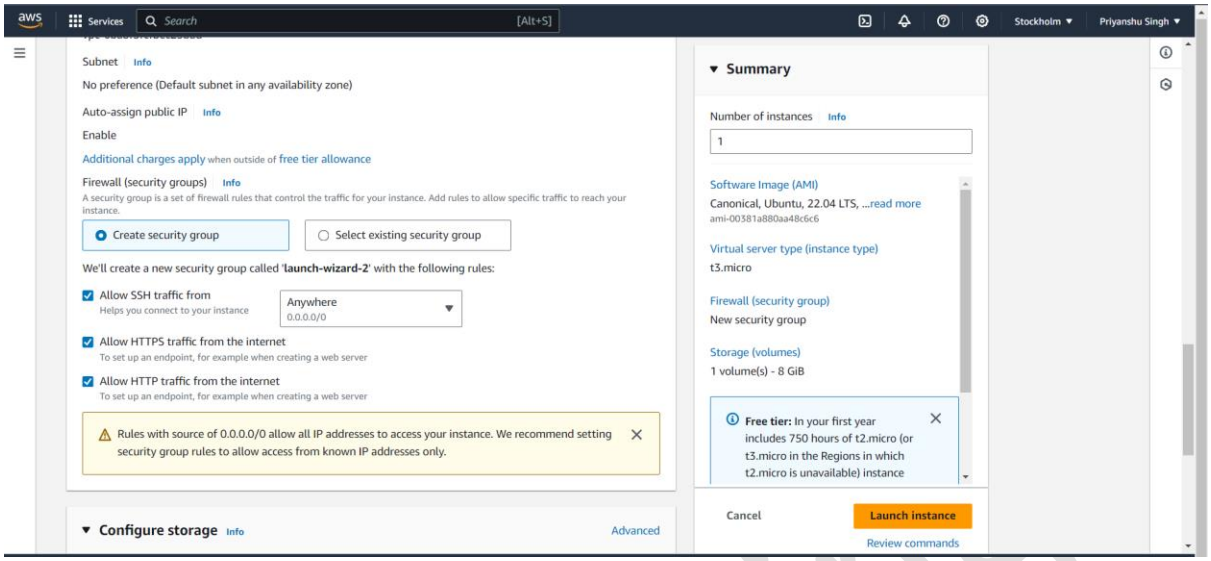
STEP 5-> Create a new one by clicking on “Create New Key Pair” button.



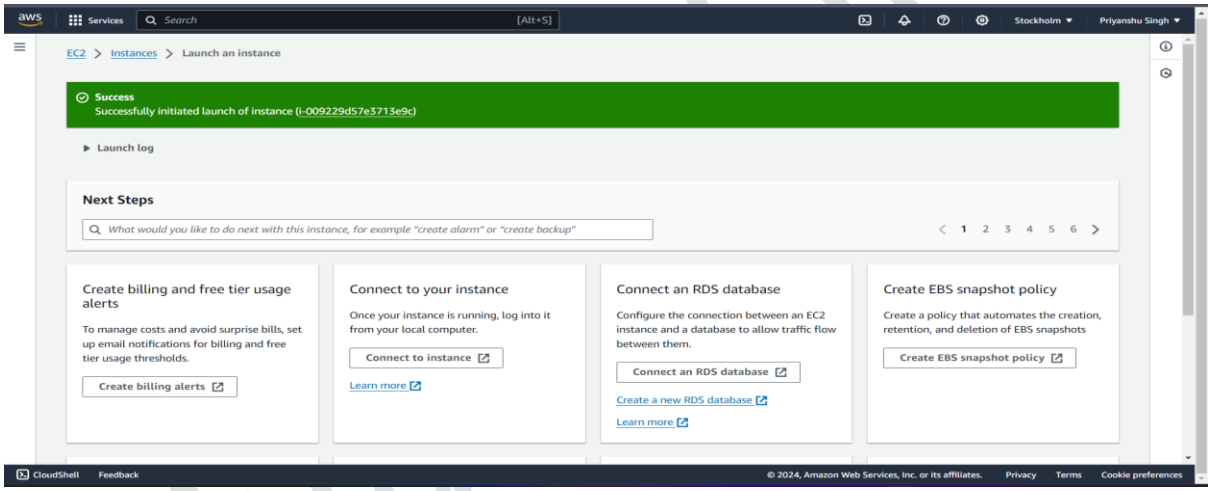
STEP 6-> Give a name to the key pair. Then click “Create Key Pair”.



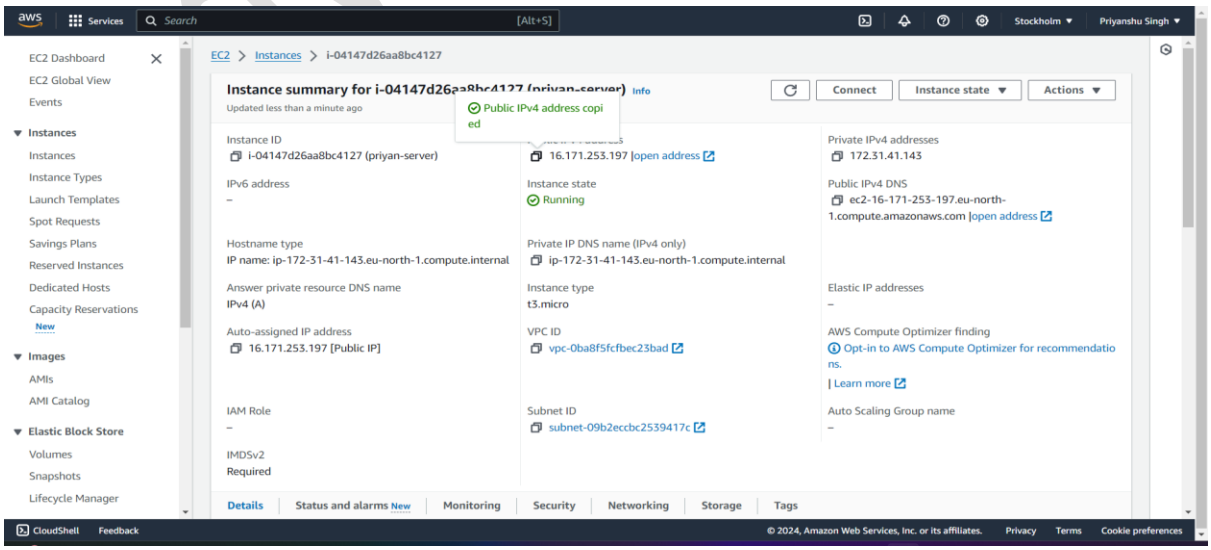
STEP 7-> Select all the Security options. Then click on “Launch Instance”.



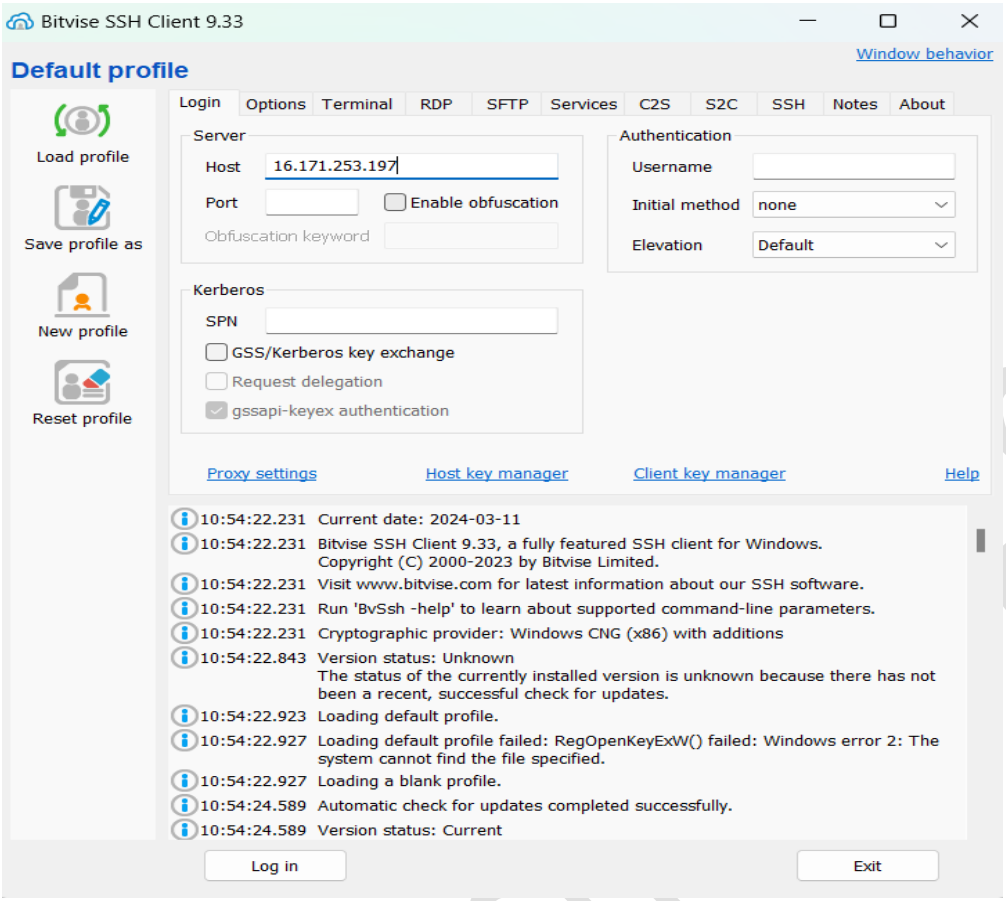
STEP 8-> The new instance is thus created successfully. To Enter the Instance click on its ID.



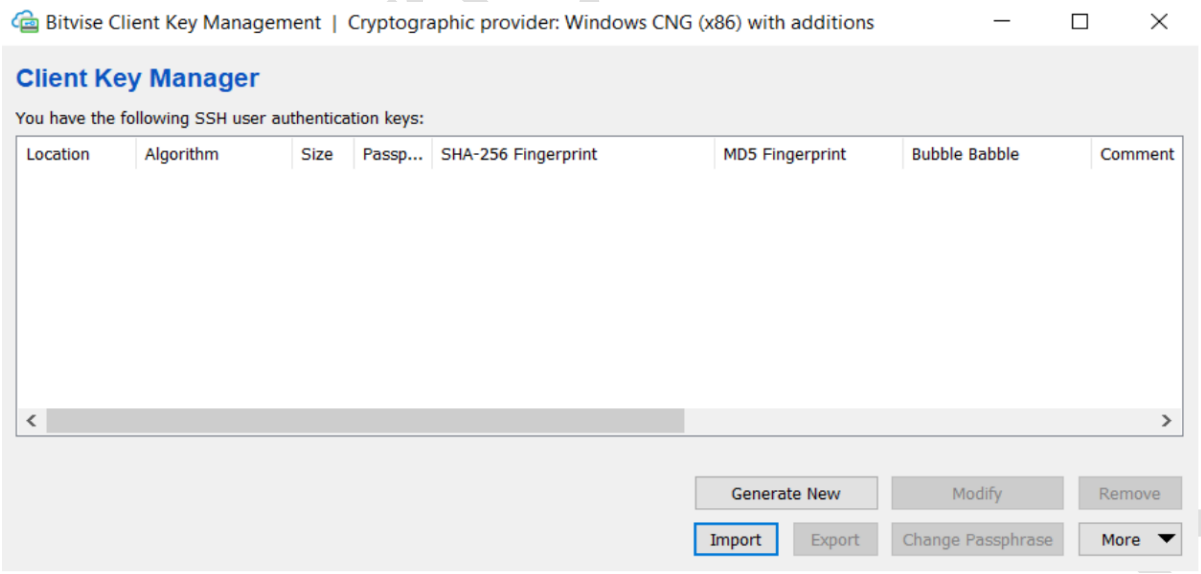
STEP 9-> Copy the “Public IPv4 Address” of the instance.



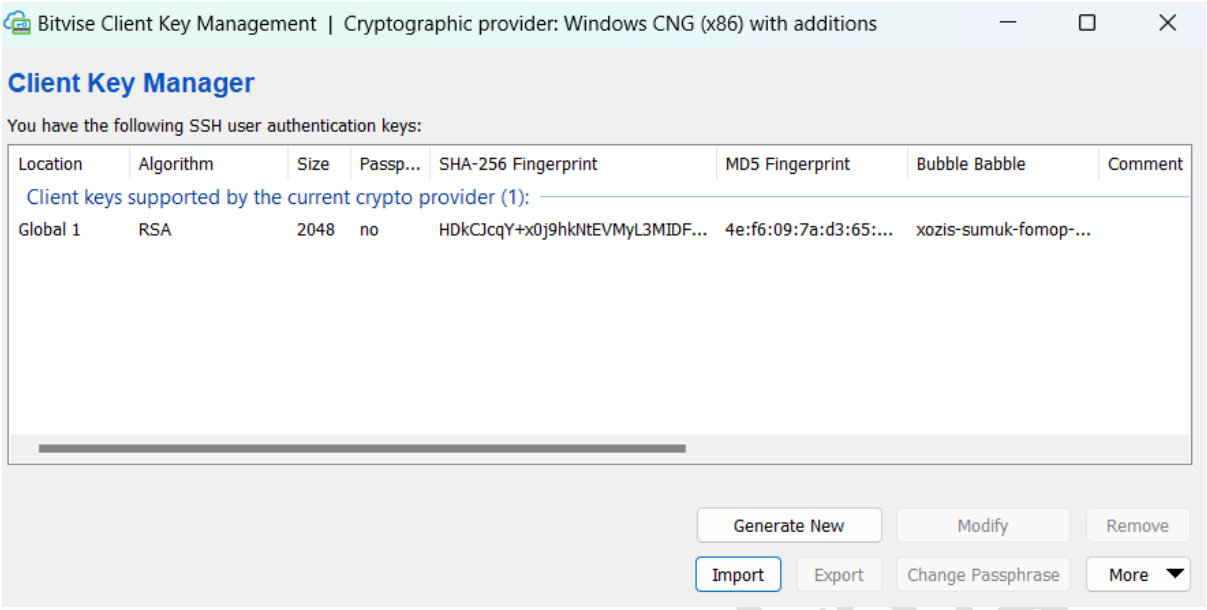
STEP 10-> Paste IP address under Host. Then go to the “Client Key Manager” option.



STEP 11-> Click on the “Import” button & select the key & click “Import”.

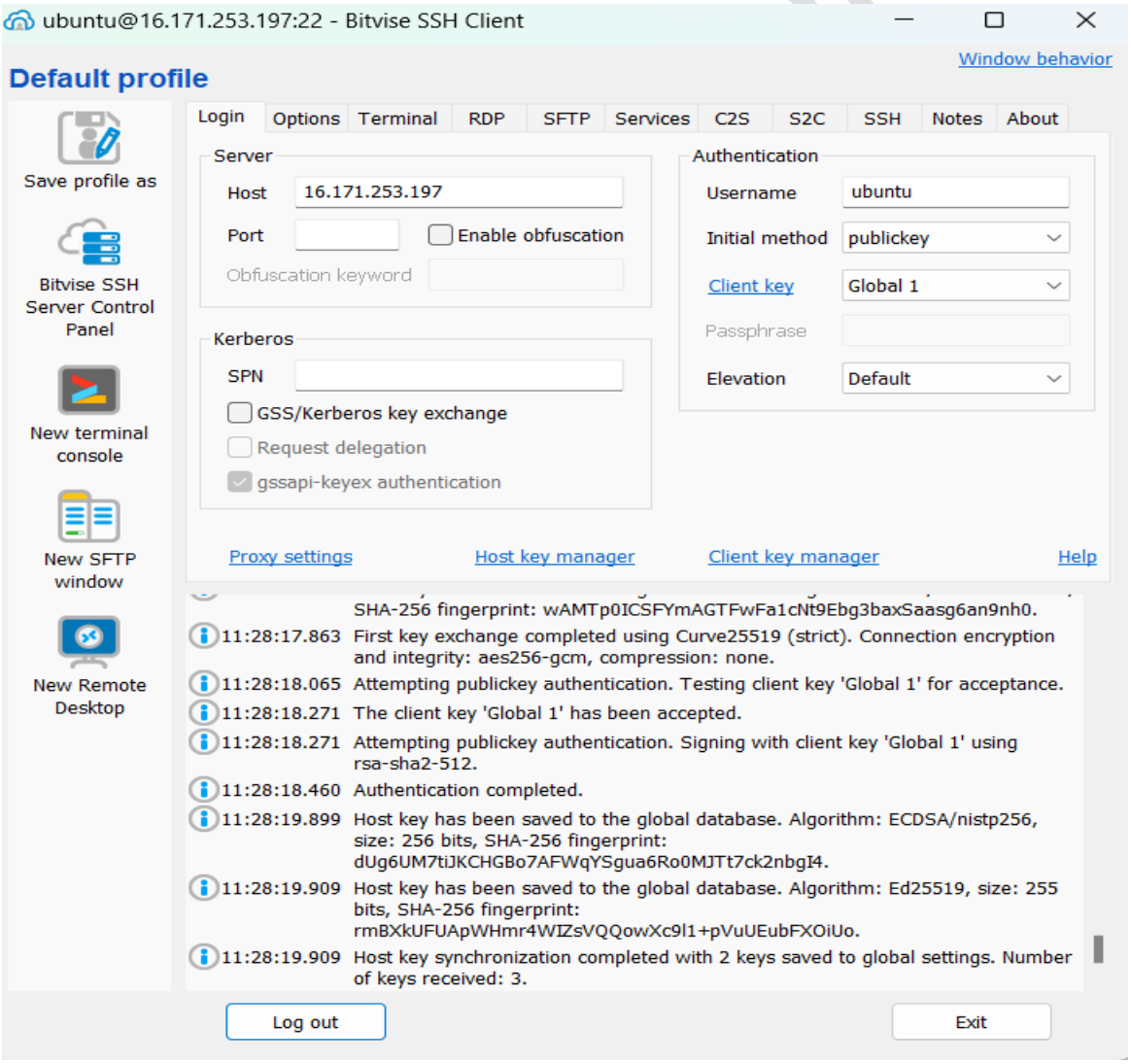


STEP 12-> The new key is successfully added. Click “Import”.

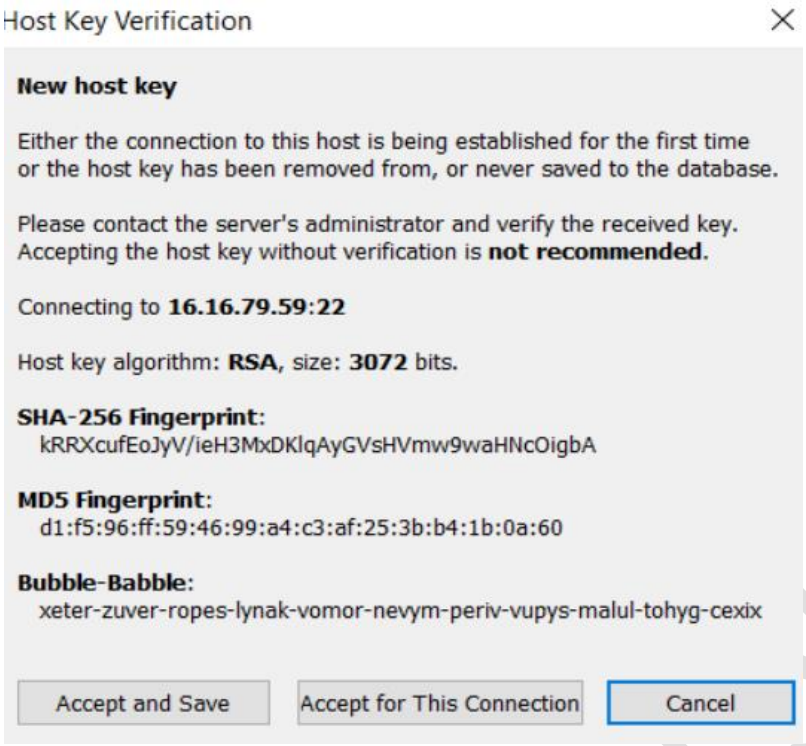


STEP 13-> Give the username as “ubuntu, select “Public Key” & ” select “Global1”.

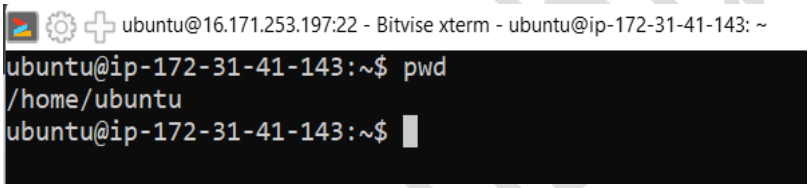
Then click the “Log in” button.



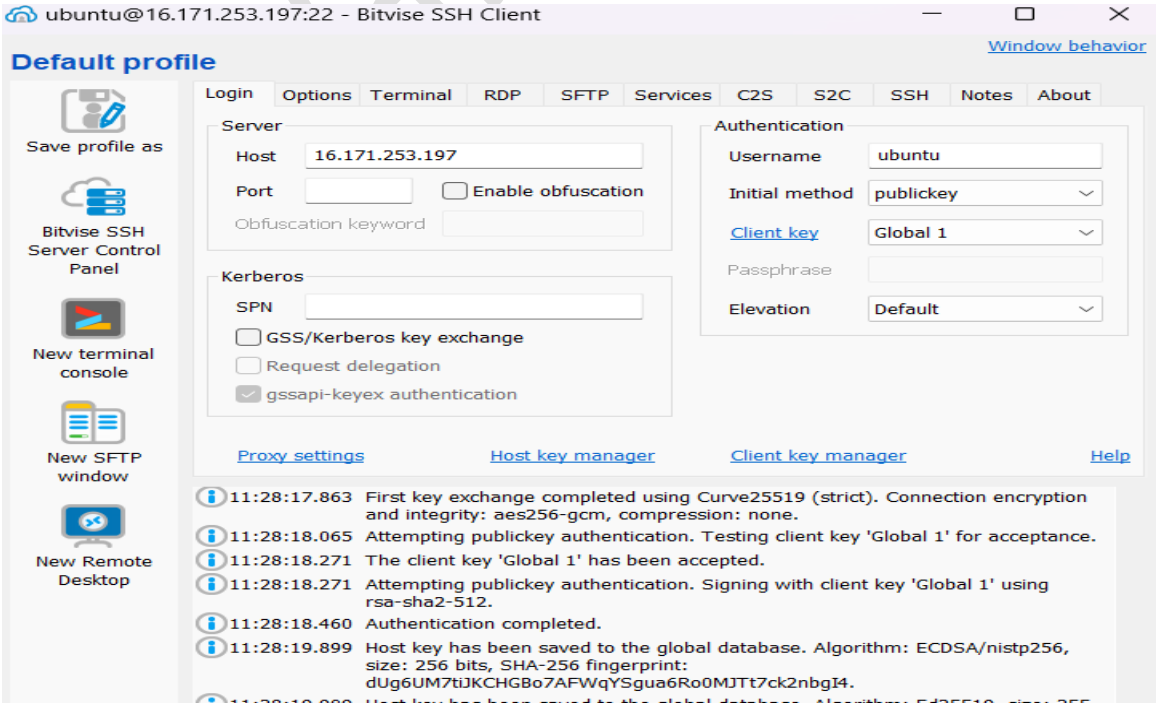
STEP 14-> Click on the “Accept & Save” button.



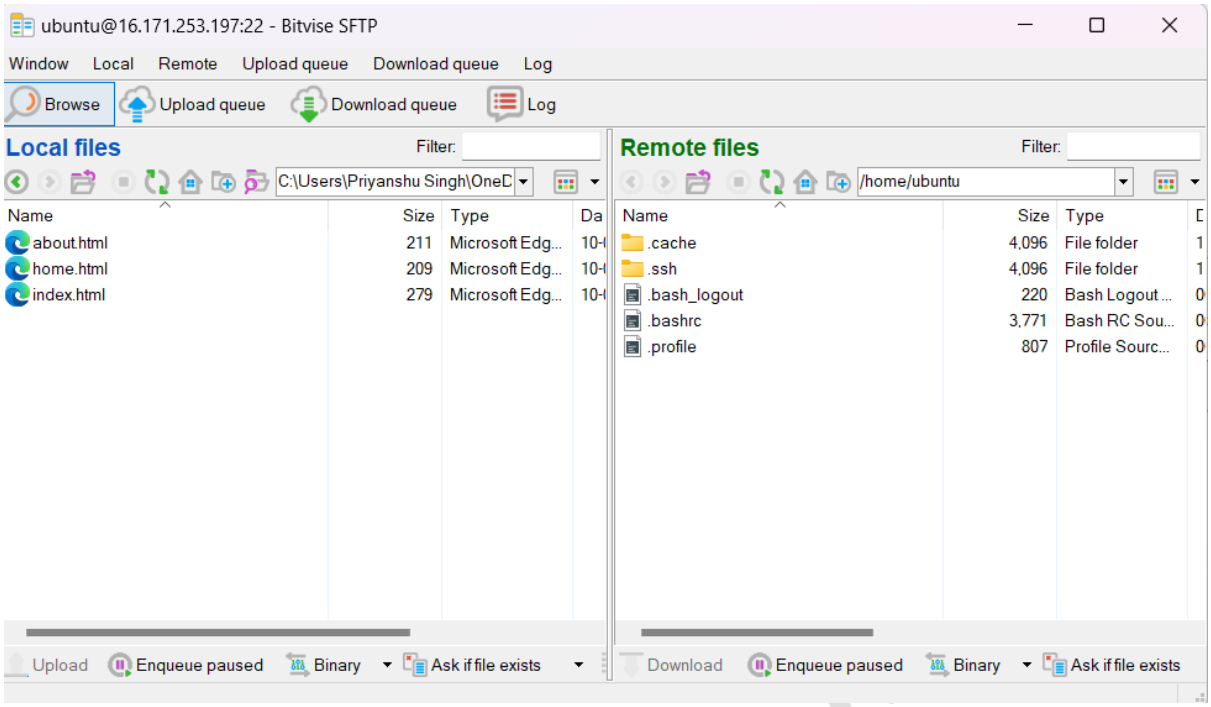
STEP 15-> Now the client is connected.



STEP 16-> Click on the “New SFTP Window” button.



STEP 17-> Under Local Files open the folder where the HTML files are present.



STEP 18-> Go to the terminal and type the following commands.

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

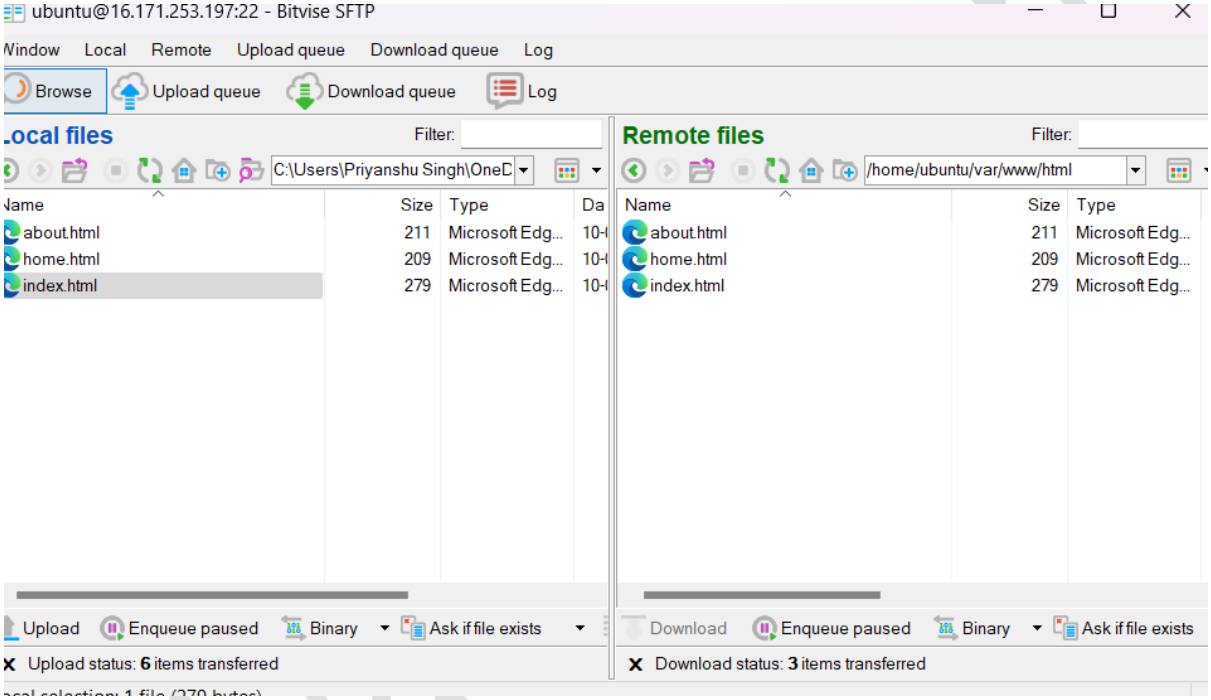
```
ubuntu@ip-172-31-3-144:~$ sudo apt-get update
Reading package lists... Done
ubuntu@ip-172-31-3-144:~$ sudo apt-get upgrade
```

```
ubuntu@ip-172-31-3-144:~$ 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 3 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] Y
```

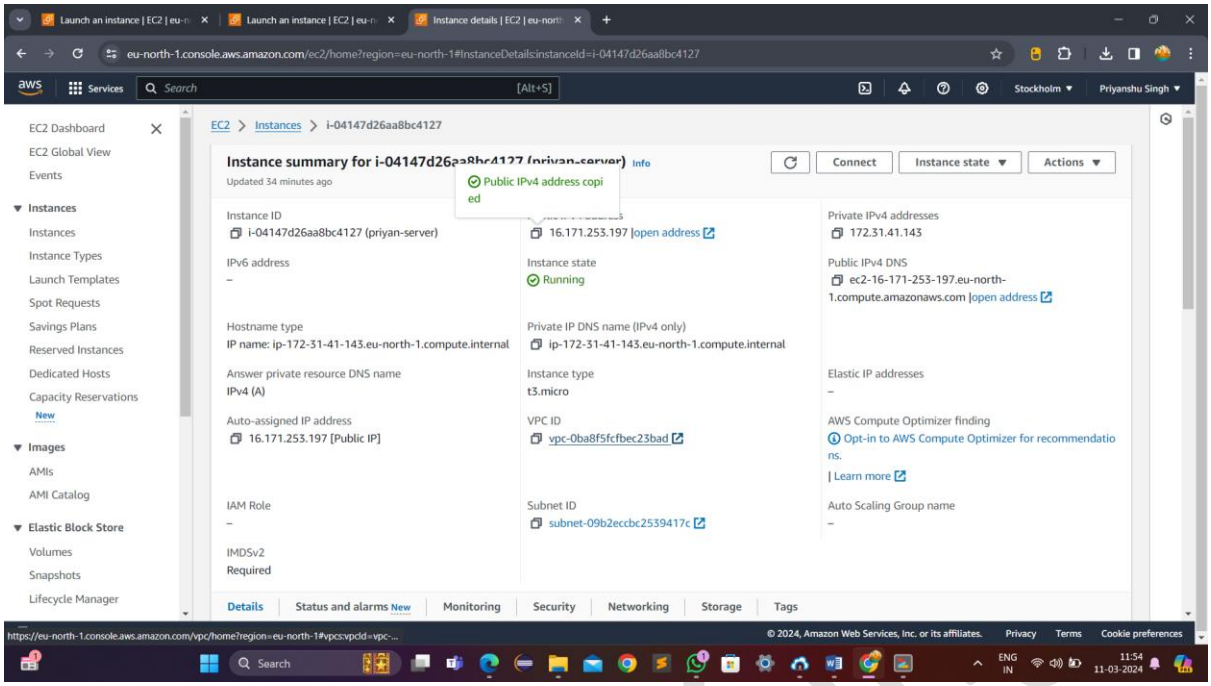
STEP 19-> Type the command **“sudo chmod 777 html”** and press “Enter”.

```
ubuntu@ip-172-31-3-144:/$ cd var
ubuntu@ip-172-31-3-144:/var$ ls
backups  cache  crash  lib  local  lock  log  mail  opt  run  snap  spool  tmp  www
ubuntu@ip-172-31-3-144:/var$ cd www
ubuntu@ip-172-31-3-144:/var/www$ ls
html
ubuntu@ip-172-31-3-144:/var/www$ cd html
ubuntu@ip-172-31-3-144:/var/www/html$ ls
index.nginx-debian.html
ubuntu@ip-172-31-3-144:/var/www/html$ cd..
cd..: command not found
ubuntu@ip-172-31-3-144:/var/www/html$ cd ..
ubuntu@ip-172-31-3-144:/var/www$ sudo chmod 777 html
ubuntu@ip-172-31-3-144:/var/www$
```

STEP 20-> Now going back to the **“SFTP Window” under the “Remote Files”** open the HTML directory and drag & drop the HTML files.



STEP 21-> Now go back to the “AWS Window” and click on the “Open Address” button beside the IP address.



STEP 22-> A new window will open with the webpage.