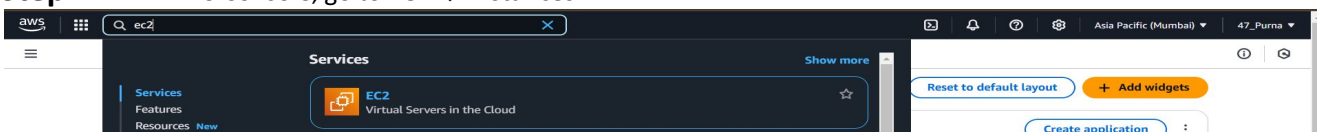
ASSIGNMENT 7 :-

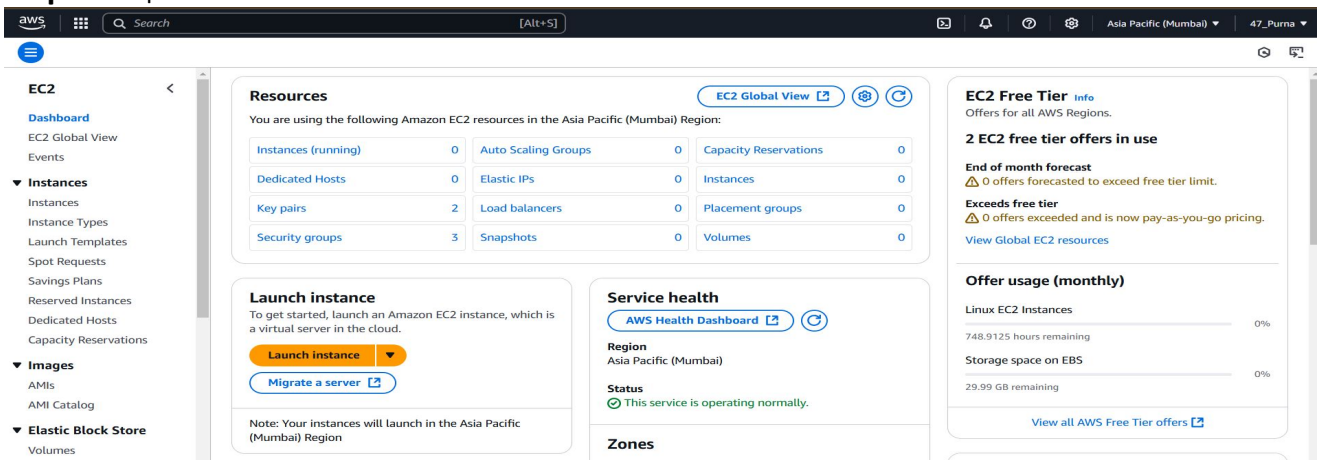
TITLE :- Hosting a website on EC2.

Step 1 :- • Go to AWS Console and sign in or create an account.
• Set up billing details and complete identity verification.

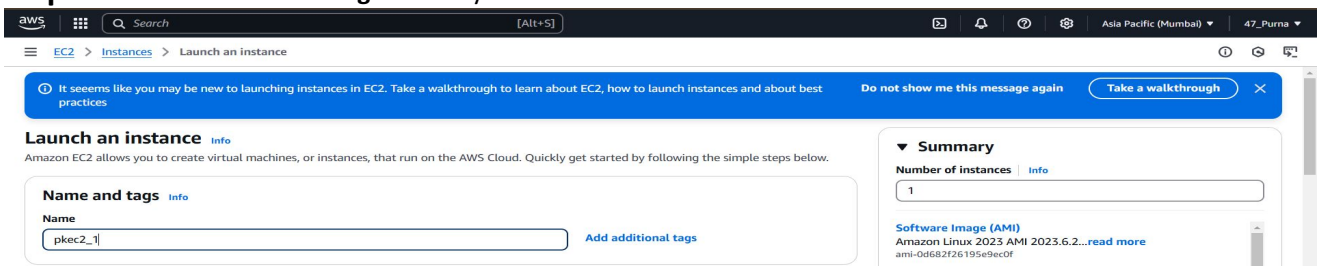
Step 2 :- In AWS Console, go to **EC2** → **Instances**.



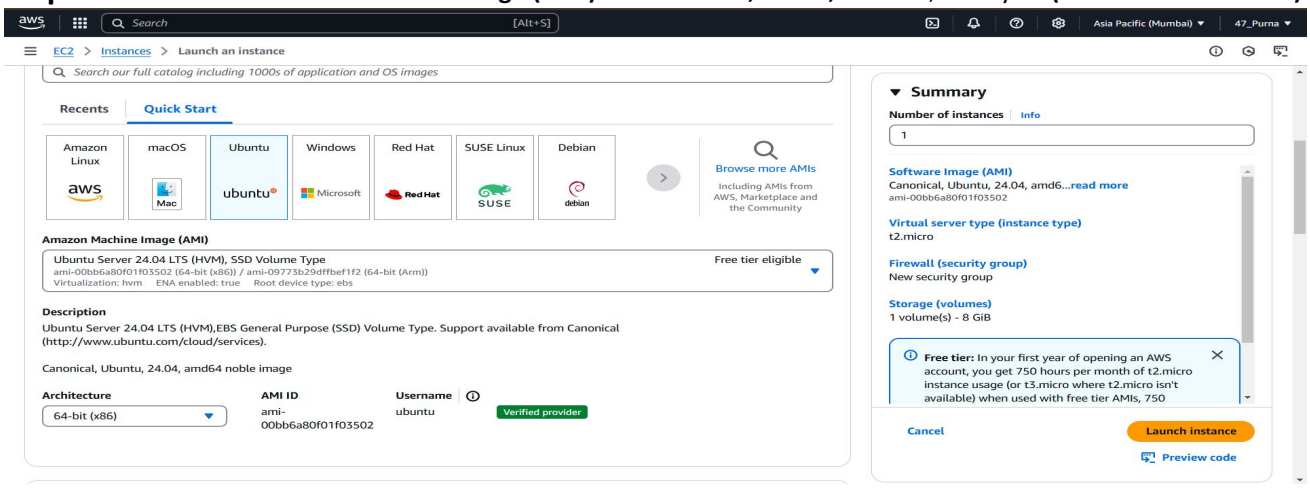
Step 3 :- Open EC2 Dashboard. Click **Launch Instance**.



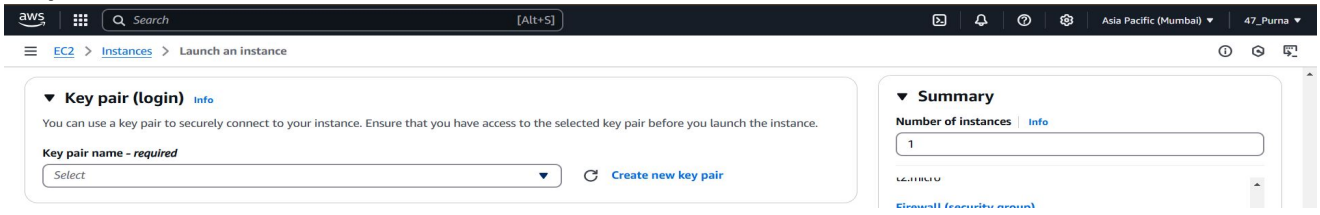
Step 4 :- Give a **Name and tags** of newly created instance.



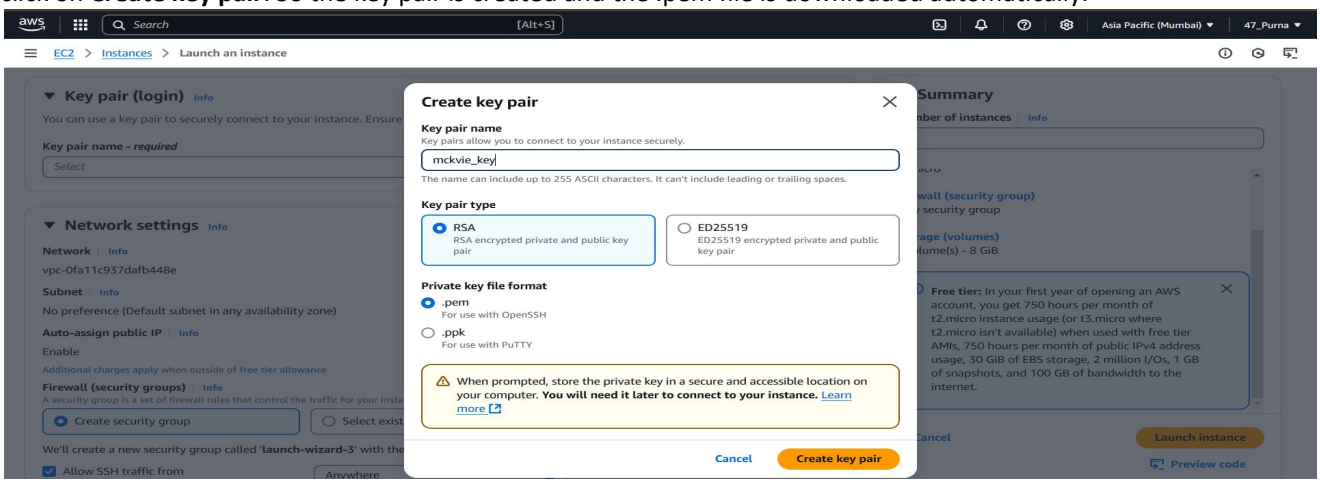
Step 5 :- Choose an **Amazon Machine Image (AMI)** like **Amazon, Linux, Ubuntu**, or any **OS(Here we use Ubuntu)**.



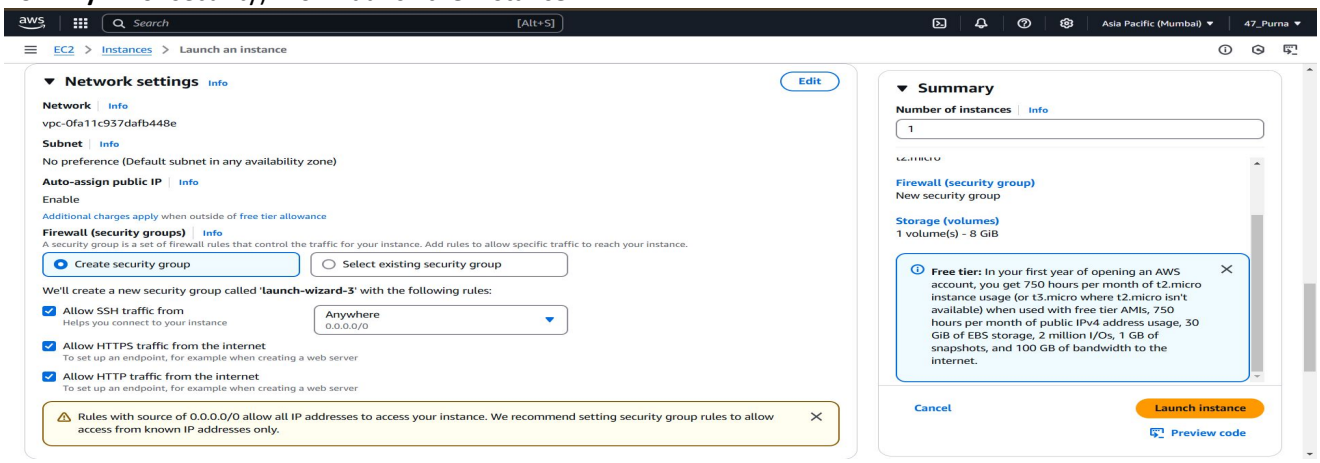
Step 6 :-In **Key pair(login)** click on **Create new key pair**.



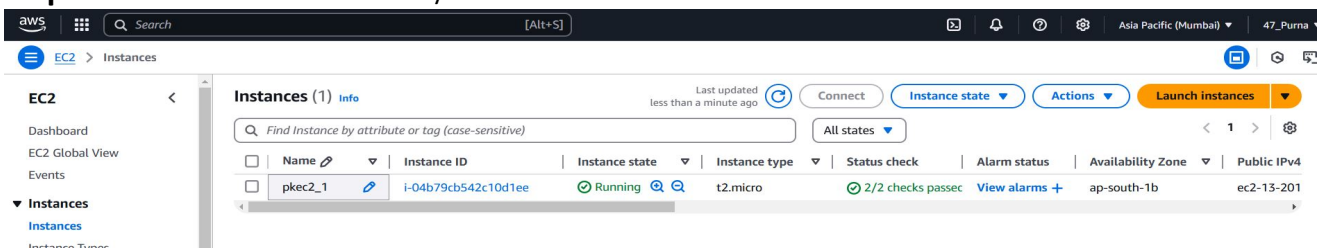
Step 7:- Give a **Key pair name** as **mckvie_key.** And **Key pair type** is **RSA** and **Private key file format** is **.pem** . And click on **Create key pair**. So the key pair is created and the .pem file is downloaded automatically.



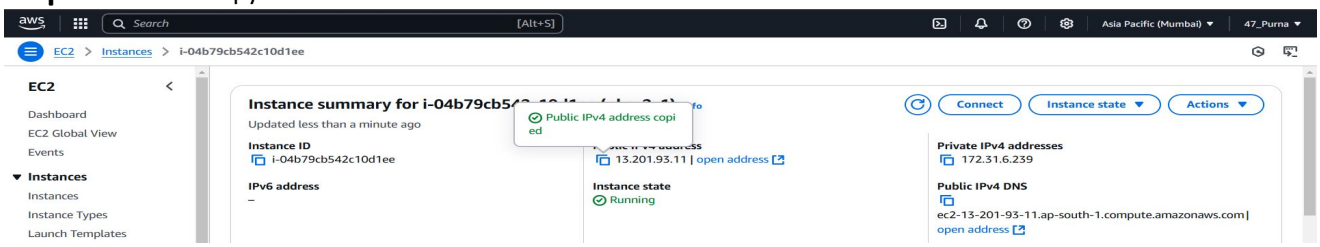
Step 8:- Allow HTTP (port **80**) and HTTPS (port **443**) for web access. Allow SSH (port **22**) for remote access (**only from my IP** for security). Now **Launch the Instance .**



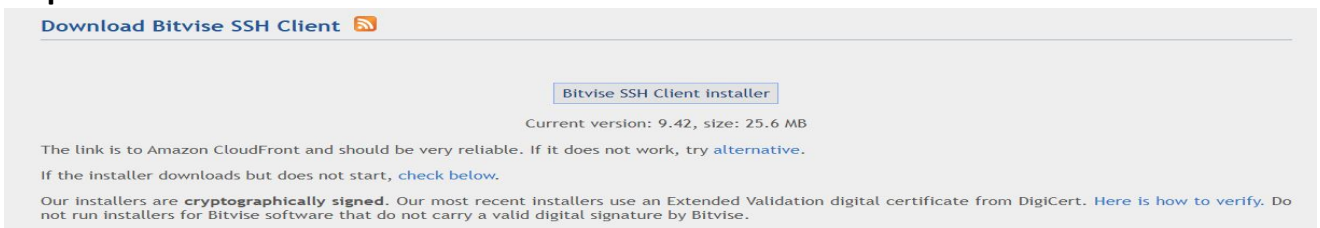
Step 9:- Now Instances is successfully created. So click on the instance ID.



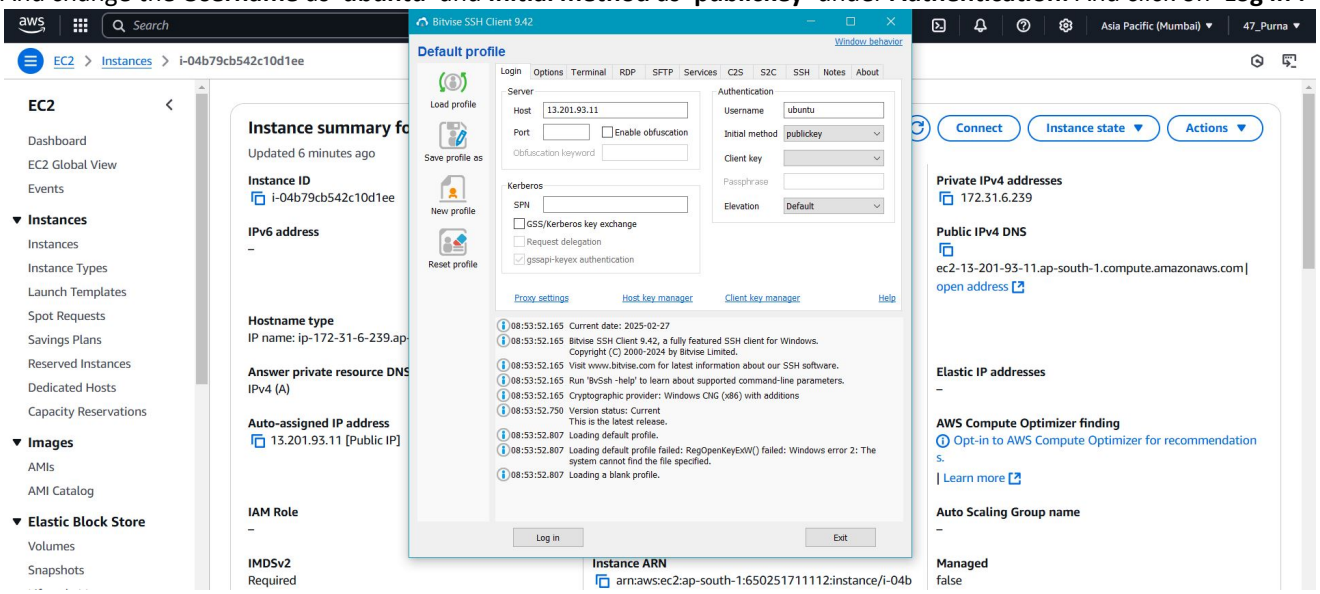
Step 10:- Now copy the instance ID.



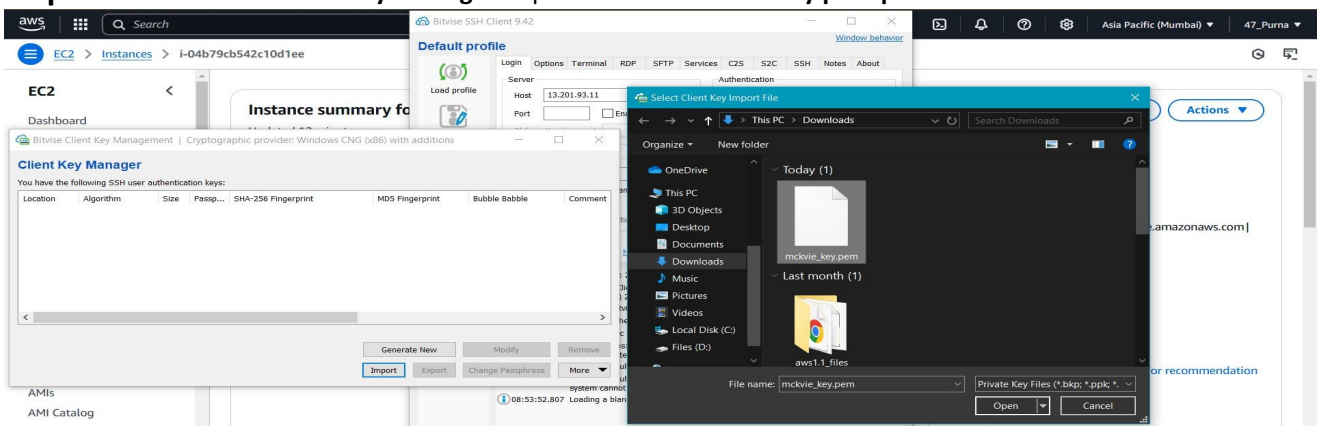
Step 11:- In another tab download the **"Bitvise SSH Client".**



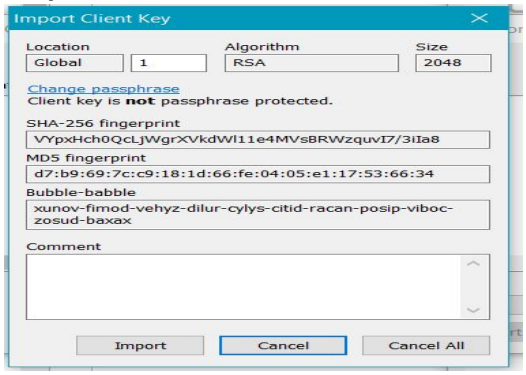
Step 12:- Now open **"Bitvise SSH Client".** And paste the ID of newly created instance in the **"Host"** under **Server.** And change the **Username** as **'ubuntu'** and **Initial method** as **'publickey'** under **Authentication.** And click on **'Log in'.**



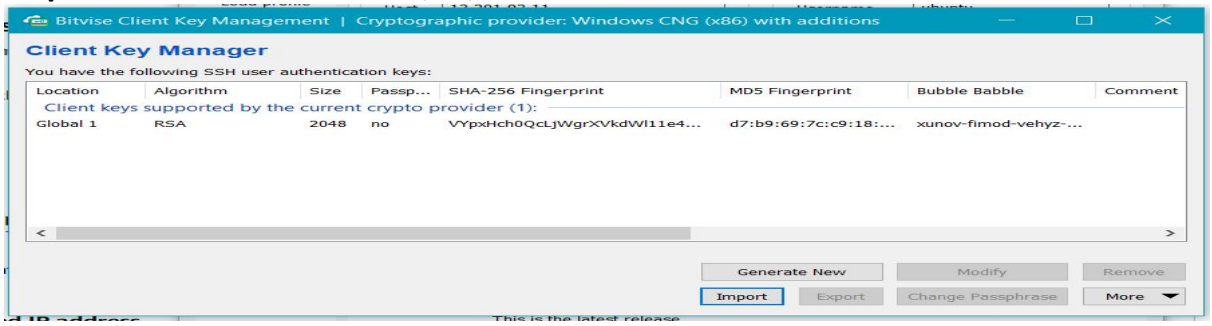
Step 13:- Now under **Client Key Manager** Import the downloaded **key pair .pem** file .



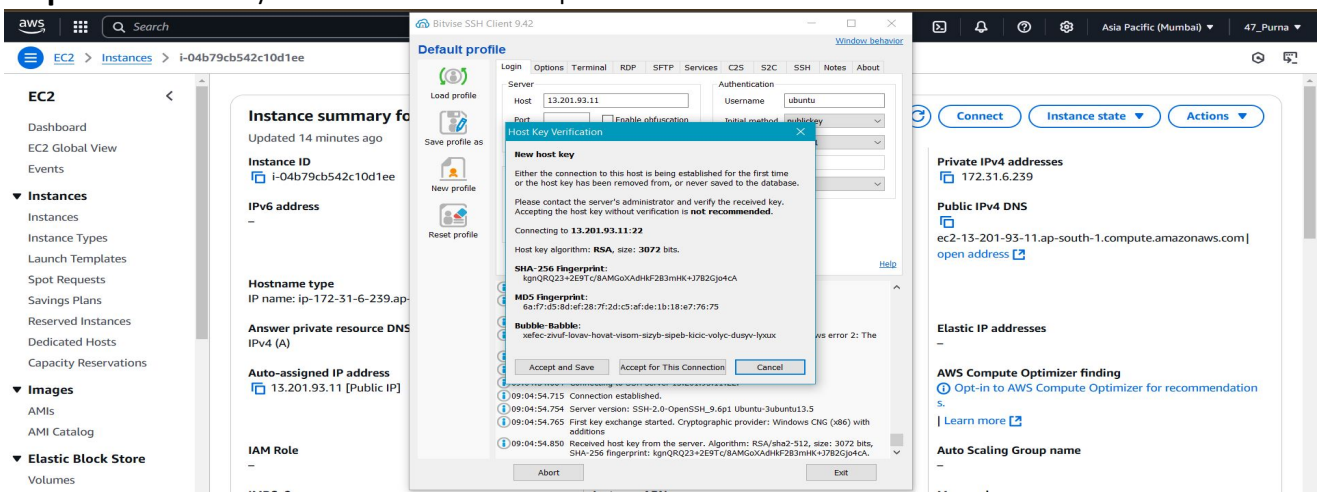
Step 14:- Now click on **'Import'.**



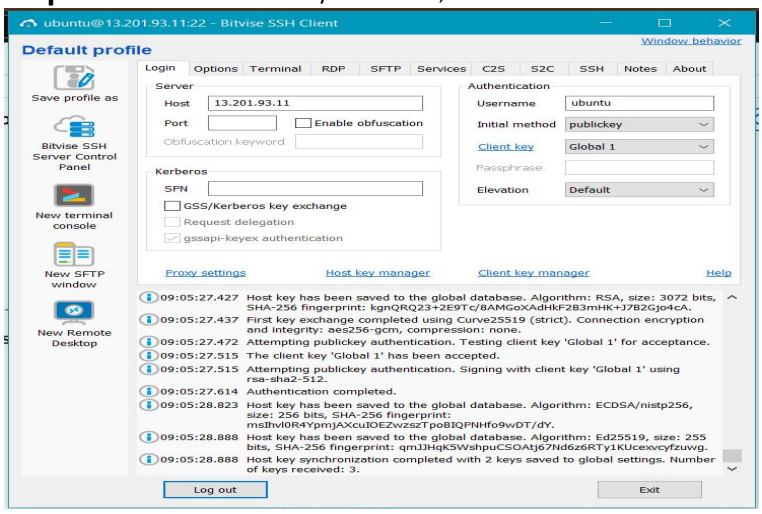
Step 15:- And the file is successfully imported. So cross the tab.



Step 16:- In Host Key Verification click on 'Accept and Save'.



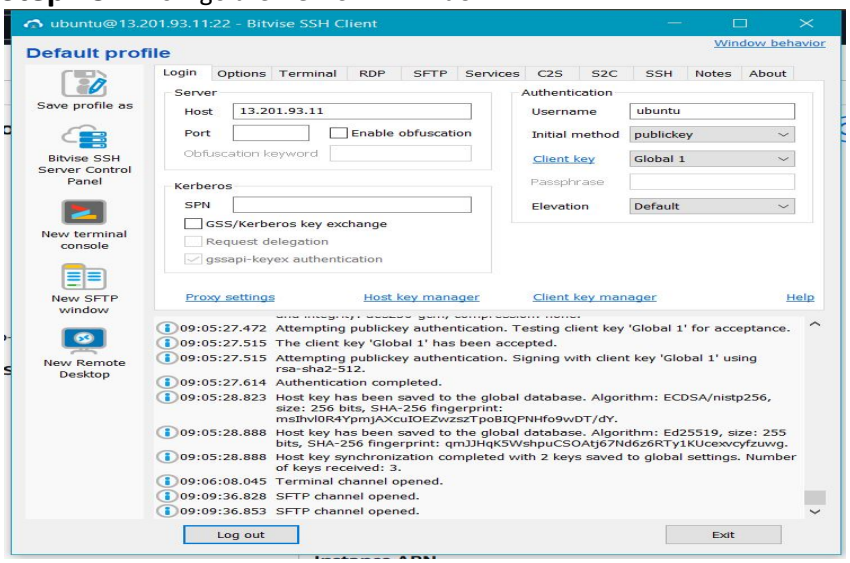
Step 17:- Now the Client Key is created , named as **Global 1** under **Authentication**. Now click on **New terminal console.**



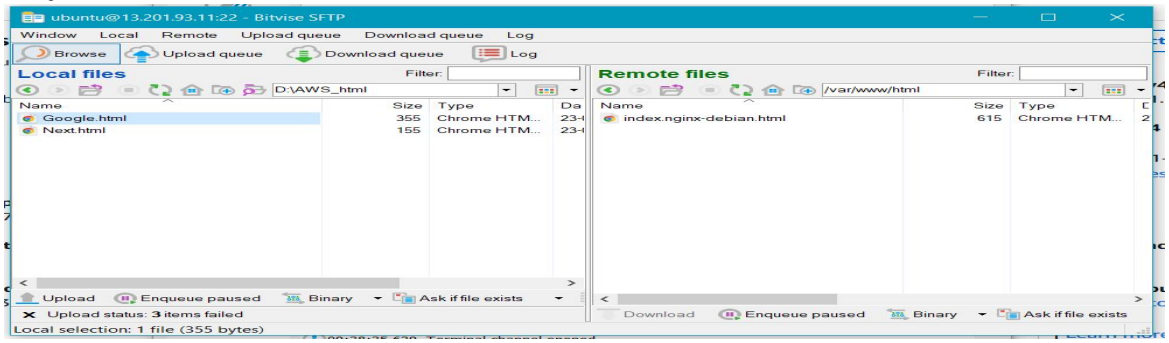
Step 18:- And give this three command and update all the necessary condition.

- `ubuntu@ip-172-31-6-239:~$ sudo apt-get update`
- `ubuntu@ip-172-31-6-239:~$ sudo apt-get upgrade`
- `ubuntu@ip-172-31-6-239:~$ sudo apt-get install nginx`

Step 19:- Now go the **New SFTP Window**.



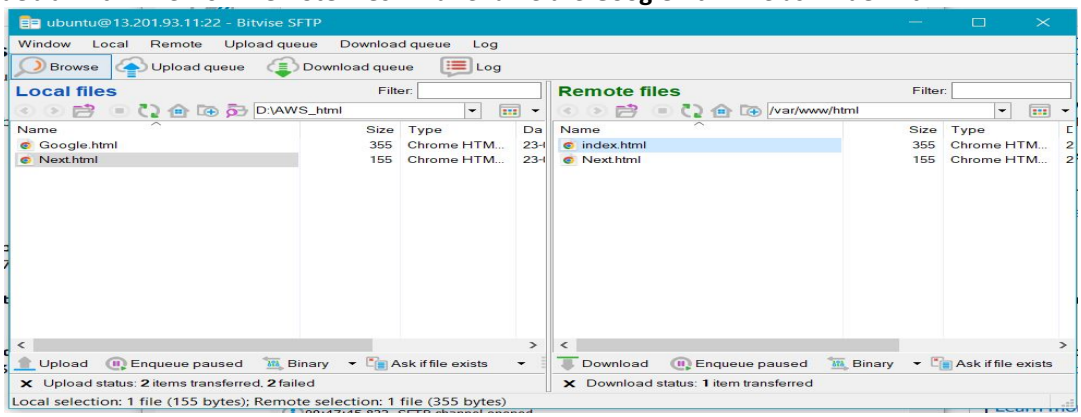
Step 20:-Now under **Remote files** open **/var/www/html**. And in **Local files** open two previously created html files.



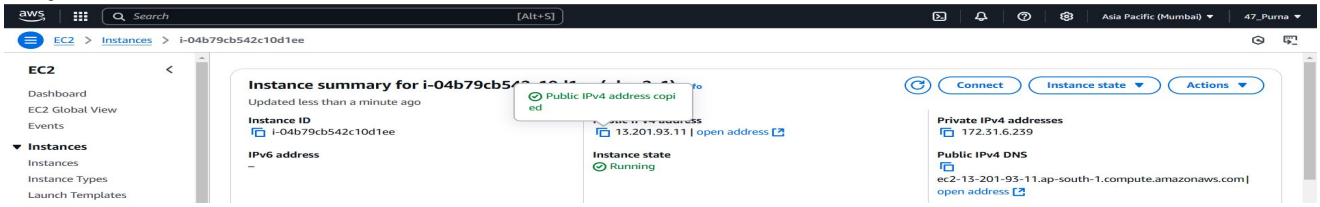
Step 21:-Now to copy past this two html files from **Local files** to **Remote files** go to **New terminal console** and run this given commands.

```
ubuntu@ip-172-31-6-239:~$ cd ..
ubuntu@ip-172-31-6-239:/home$ cd ..
ubuntu@ip-172-31-6-239:/$ cd var
ubuntu@ip-172-31-6-239:/var$ cd www
ubuntu@ip-172-31-6-239:/var/www$ sudo chmod 777 html
ubuntu@ip-172-31-6-239:/var/www$
```

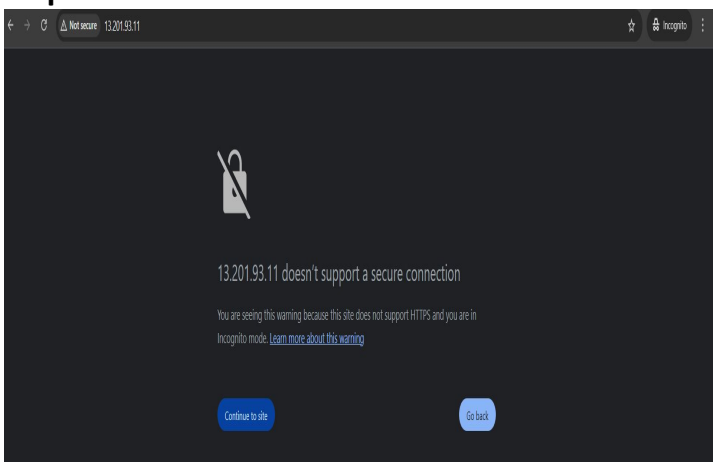
Step 22:- Now copy and paste the tow files from **Local files** to **Remote files .** And delete the **index.nginx-debian.html** file from **Remote files**. And rename the **Google.html** file as ' **index.html '**.



Step 23:- Now copy the **public id** from previous AWS tab and go to incognito mode and search the id.



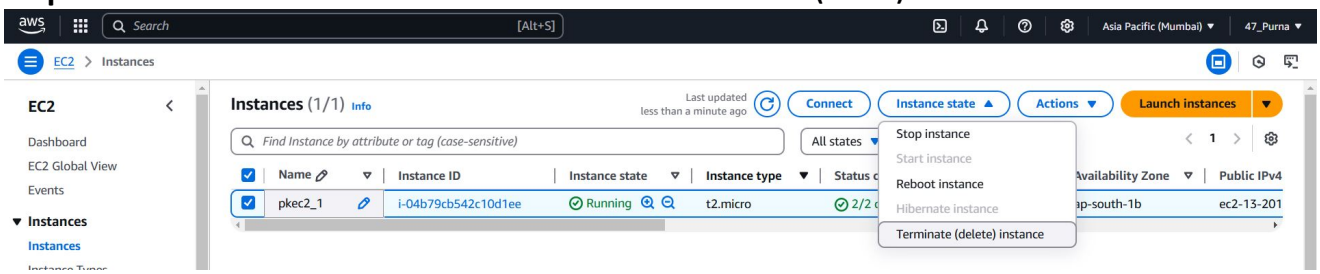
Step 24:- click on **Continue to site.**



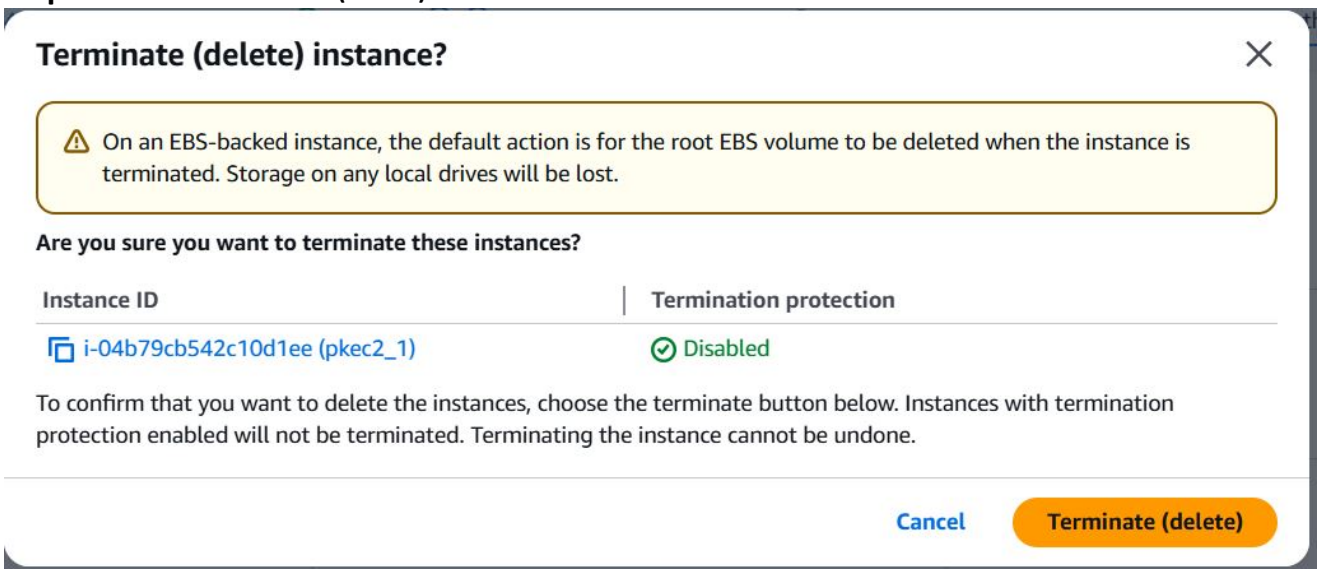
Step 25:- Now website should be visible.

Now to delete the Instance……..

Step 1:- Go to **Instances** and under **Instances state** click on **Terminate (delete) instance**.



Step 2:- Click on **Terminate (delete).**



Step 3:- After some time the instance deleted automatically.