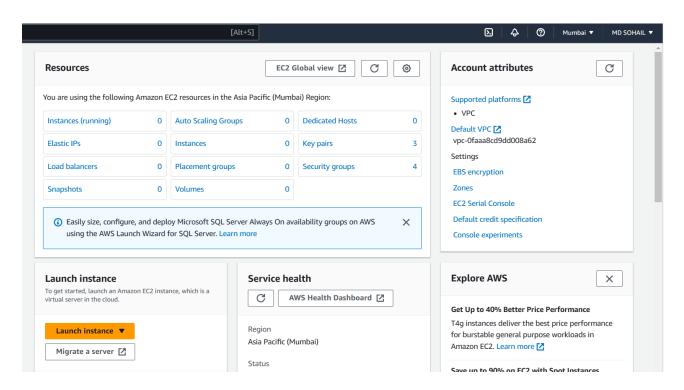
ASSIGNMENT 7

Problem Statement: Upload a website on EC2.

1. Create two html file Home.html and Next.html.

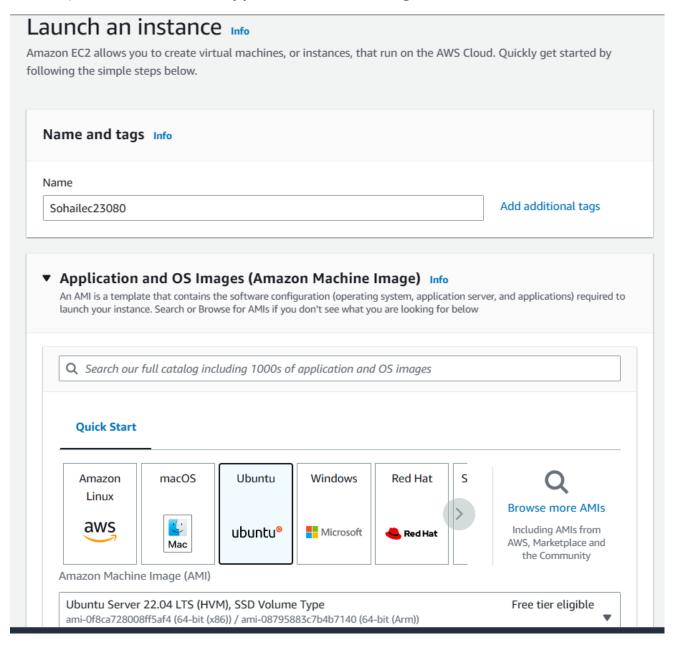
[Note-We should name the homepage of our website as **index.html** as nginx takes it as the starting page, but for better understanding in later steps we have taken names randomly]

- 2. Open the Amazon Web Services home page (aws.amazon.com).
- 3. Choose **Sign into Console**.
- 4. Sign in as Root user using your email address and password.
- 5. Go to search and search EC2. Click on Launch instance.

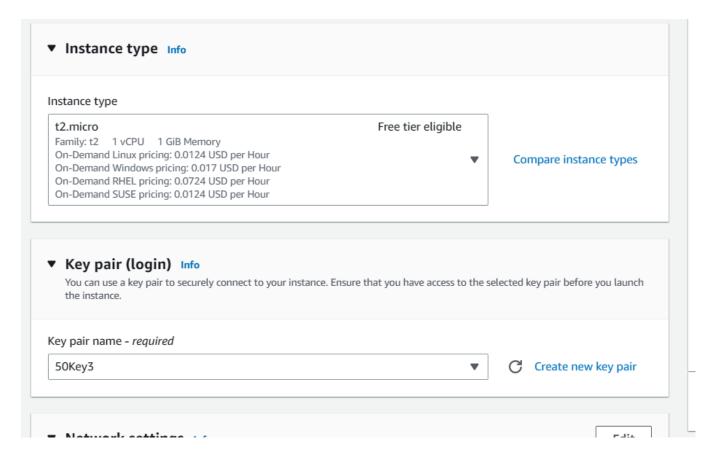


6. In Launch an instance page page:

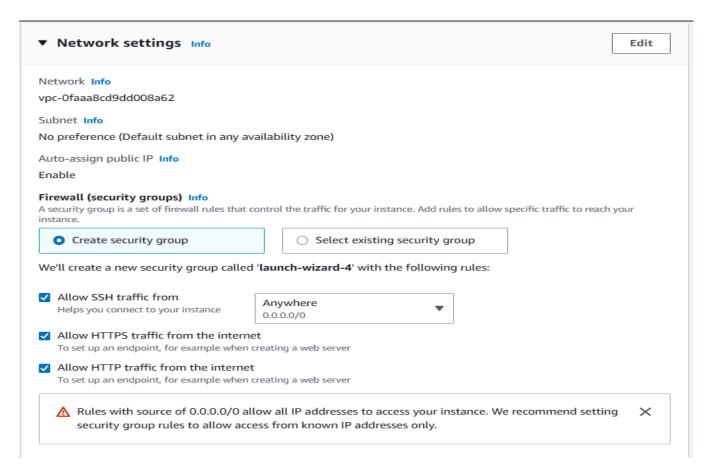
- a) Give the instance name in the Name and tags section. Give globally unique name as it is created globally.
- b) Select an OS from Application and OS Images section.



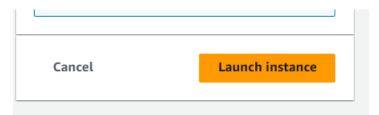
- c) Keep the instance type as t2.micro.
- d) Then create a new key pair by clicking on **Create new key pair**
- ->In the create key pair page give it a name and select RSA in **key pair type** and .pem in **Private key file format** and click on create a new key pair. It will download the the key pair in your local computer also.



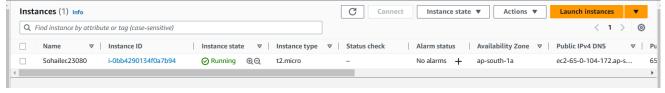
d) In Network settings section Check,



e) Click on Launch Instance.

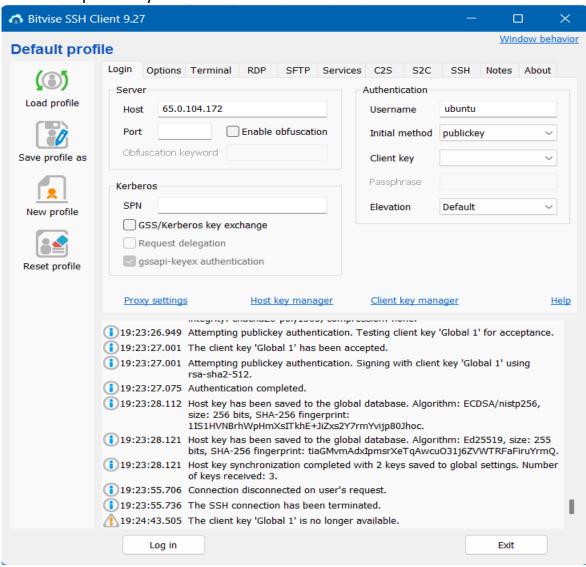


7. Go back to instances page. Select the instances and copy the public ipv4 from the **Details** page.

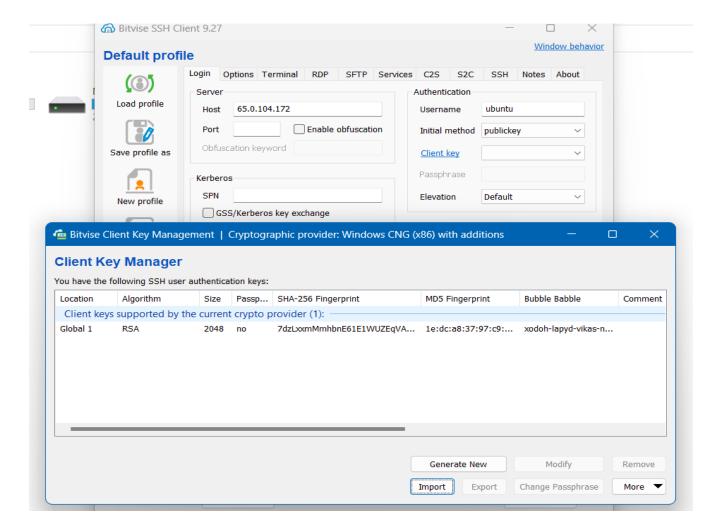


8. Download and install **Bitvise SSH Client**. Open **Bitvise SSH Client**. In **Bitvise SSH Client**

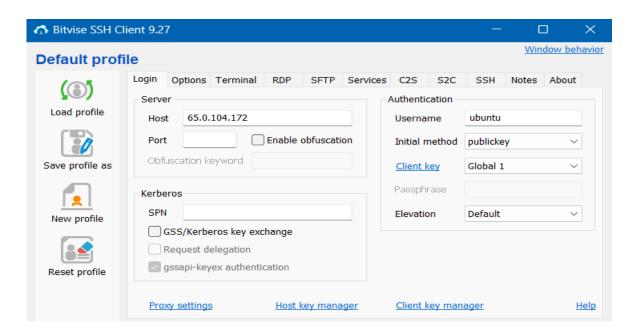
- a) Paste the public ipv4 in the host in **Server** section.
- b) Keep the Username ubuntu in **Authentication** section as we using ubuntu in EC2 and publickey as **Initial method**.



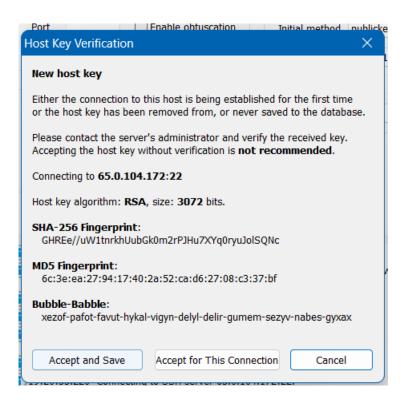
c) Click on client key manager, remove if any key exists, next import your key pair, next close client key manager.



Next, Choose the client key that you imported



9. Click on login and click on accept and a save.



10. Click on New terminal console on the left sidebar

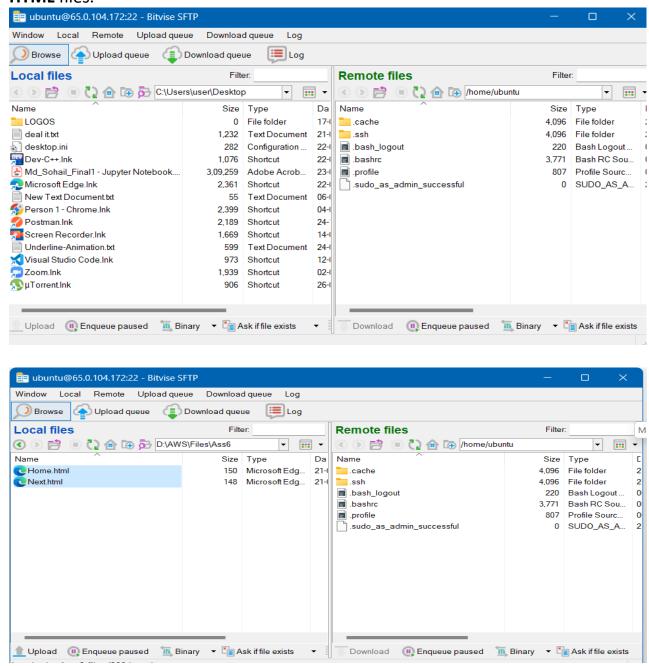
In the terminal run command,

- a) pwd //To show present working directory
- b) sudo apt-get update
- c) sudo apt-get upgrade
- d) sudo apt-get install nginx

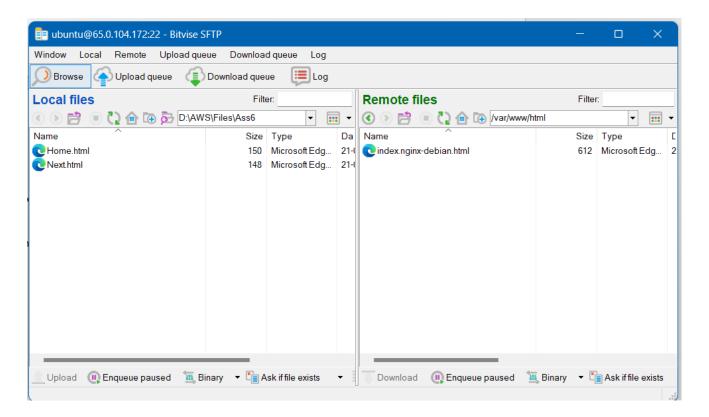
Select ok if any pop up shows up



11.. Go back to the **Bitvise SSH Client.** Click on **new SFTP window** in the left side panel. In the SFTP panel in the **Local Files** go to your folder where you kept the **HTML** files.



Next, In remote files go to root by clicking on **Up** or using the **path "/"**, then open the **var**, open **www**, open **html** folder.



12. Copy the EC2 instance IPv4 and open in a new browser window. You can see the Welcome to "nginx!" page.



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 <u>nginx.org</u>. Commercial support is available at <u>nginx.com</u>.

Thank you for using nginx.

13.Go back to the terminal console.

In the terminal console run,

a) nginx -v // To show the version info of the nginx ubuntu@ip-172-31-36-76:~\$ nginx -v nginx version: nginx/1.18.0 (Ubuntu)

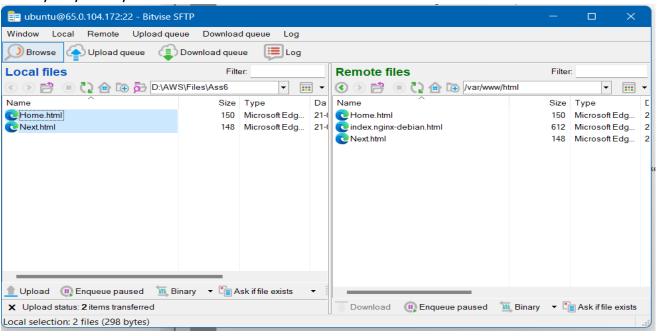
b) cd/ //To go back to the root in the terminal ubuntu@ip-172-31-36-76:~\$ cd / ubuntu@ip-172-31-36-76:/\$ pwd /

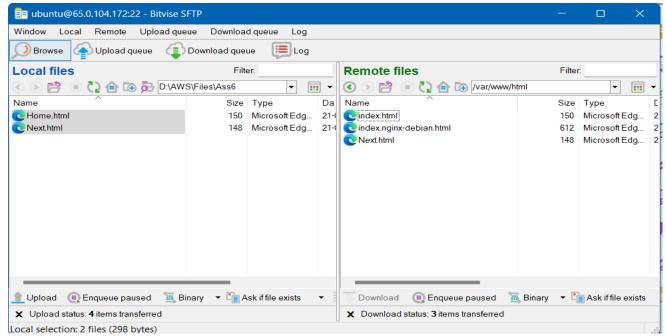
c) cd /var/www //To go to the www folder
d) ls //To show the files
 ubuntu@ip-172-31-36-76:/\$ cd /var/www
 ubuntu@ip-172-31-36-76:/var/www\$ ls
html

e) sudo chmod 777 html //To give read and write permissions to the HTML folder.

```
ubuntu@ip-172-31-36-76:/var/www$ sudo chmod 777 html
ubuntu@ip-172-31-36-76:/var/www$ ls -l
total 4
drwxrwxrwx 2 root root 4096 Mar 27 14:14 html
```

14. Now go to the Bitvise's SFTP panel and move your file from local files to remote files "/var/www/html".





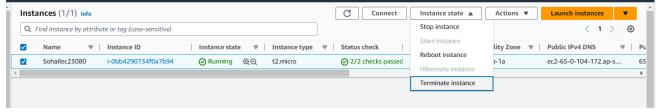
Make sure the home of your webpage is "index.html". If it is not, rename it to index.html as nginx takes it as the starting page of the website.

15. Refresh the nginx page your website will be displayed now.



16. Now for **Termination**:

a) Click on instance state On the EC2 Instances page and click on **instance state** then click on terminate instance.



b) Click on Abort in Bitvise SSH Client.

19:27:09.210 Authentication completed. 19:30:34.768 SFTP channel opened. 19:30:36.822 SFTP channel closed by user. 19:30:37.945 Terminal channel opened. 19:33:30.624 SFTP channel opened. 19:45:04.860 SFTP channel closed by user. 19:45:12.251 SFTP channel opened. 20:11:49.511 The SSH connection has terminated with error. Reason: Error class: ${\tt LocalSshDisconn, code: ConnectionLost, message: FlowSshTransport: received}$ 1 20:11:49.545 Automatic reconnection started. Reconnection attempt is scheduled at 20:11:52. 1 20:11:51.526 Started a new SSH connection. 1 20:11:51.548 Connecting to SSH server 65.0.104.172:22. Abort

Exit