ASSIGNMENT: 7

PROBLEM STATEMENT = Hosting a Website on EC2.

#To host the website:

STEP 1: Create 3- Static Webpages using HTML

```
<!DOCTYPE html>
<html lang="en"
 <h1>About page</h1>
<a href="index.html">index</a>
```

<!DOCTYPE html> <meta charset="UTF-8">
<meta name="viewport" content="width-device-width, initial-scale=1.0">
<title>Document</title> <h1>Index page</h1>
about

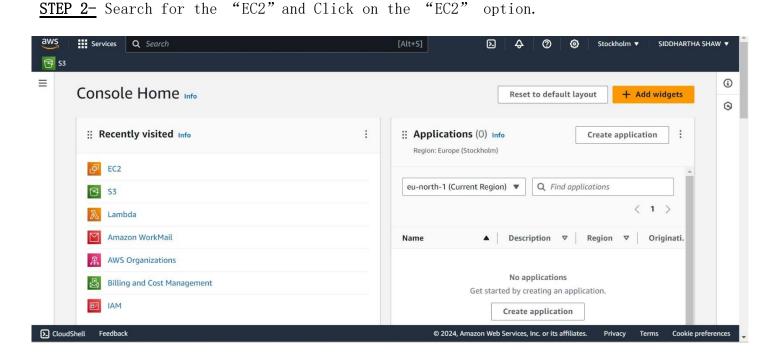
INDEX. HTML

ABOUT. HTML

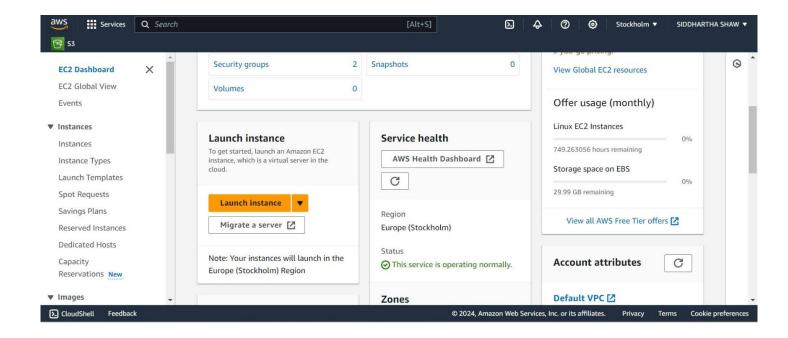
AWS > ♦ Next.html > ♦ html > ♦ body > ♦ br

<html lang="en": <meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document2</title> <h1>Next page</h1> about

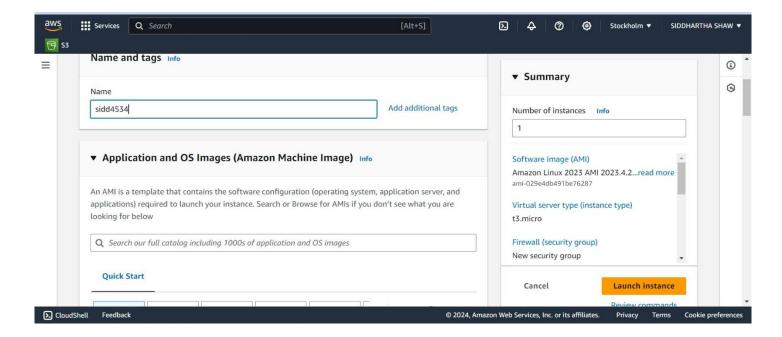
NEXT. HTML



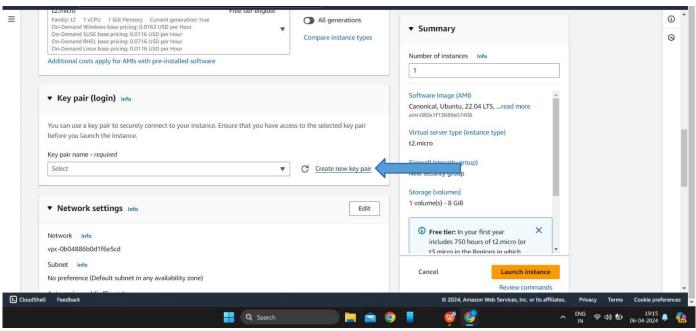
STEP 3: Click on "Launch Instance" button



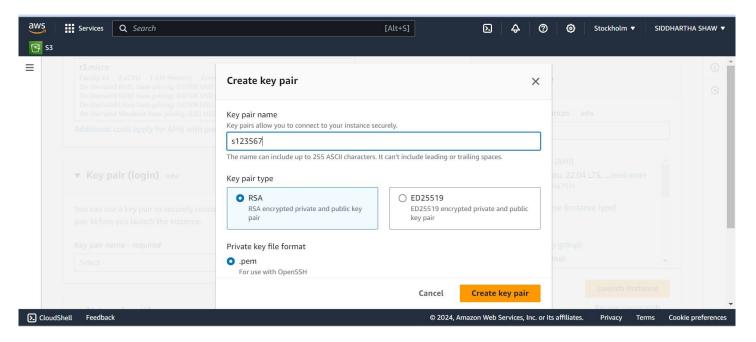
STEP 4: Give a unique name to the instance & select "Ubuntu"



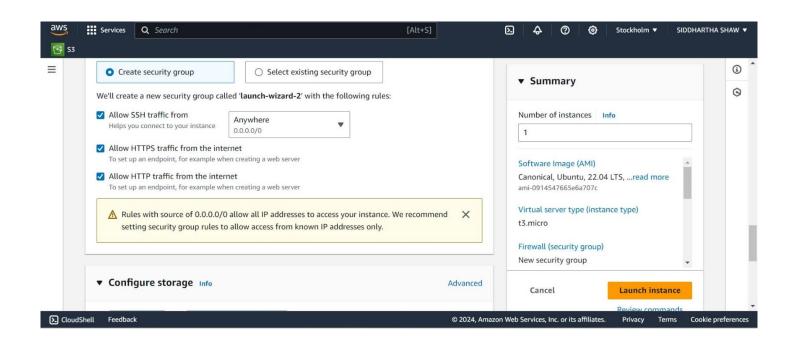
STEP 5: Create a new key pair by clicking "Create New Key Pair" button



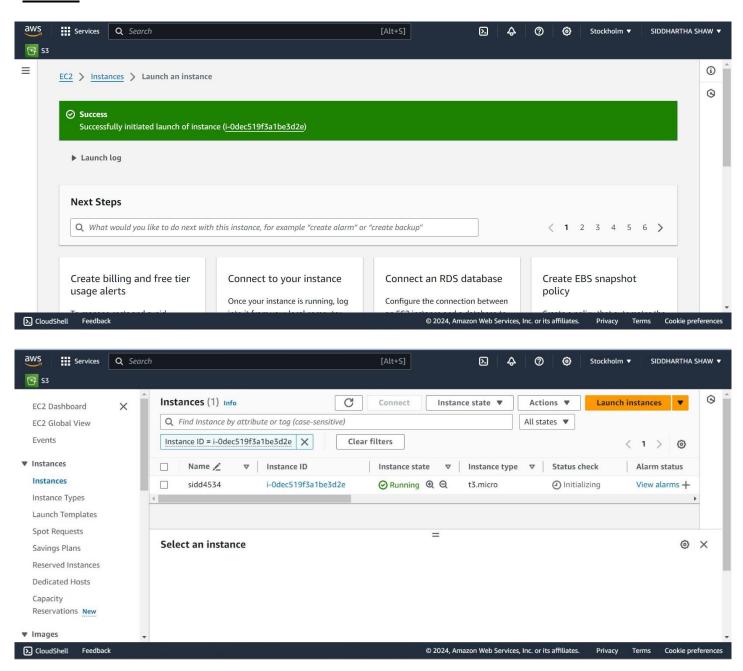
STEP 6: Give a name to the key pair, then click "Create Key Pair"



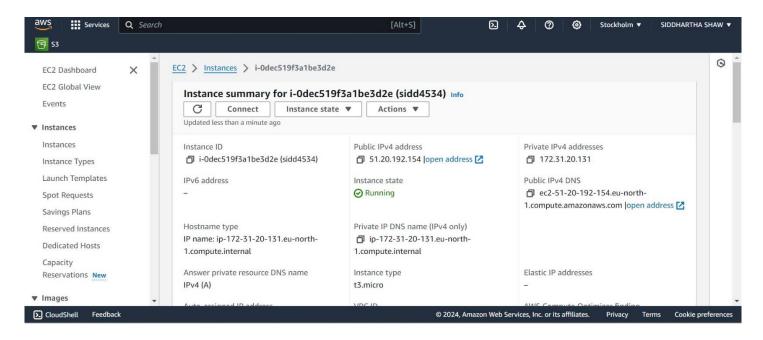
STEP 7: Select all the Security options, then click on "Launch Instance"



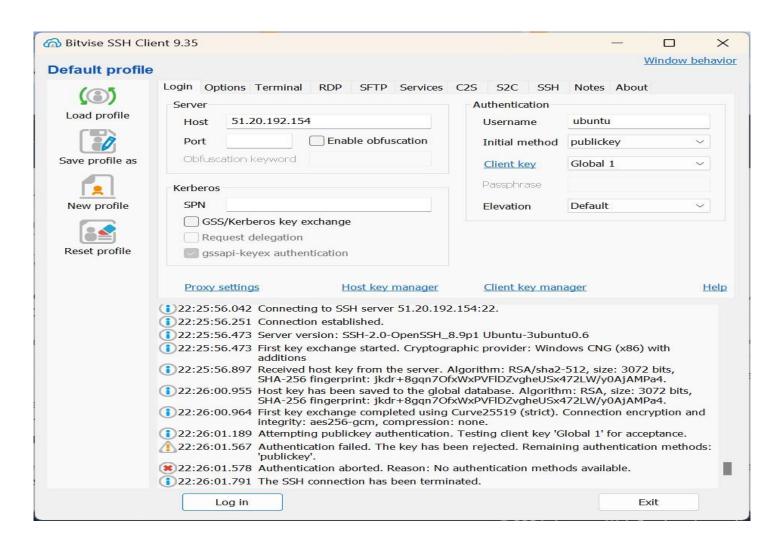
STEP 8: Click on the instance ID to access it



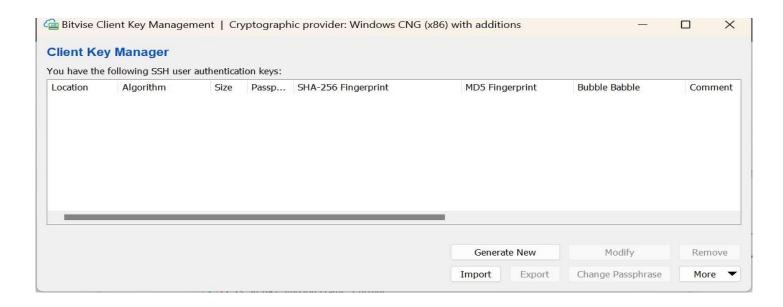
STEP 9: Copy the "Public IPv4 Address" of the instance



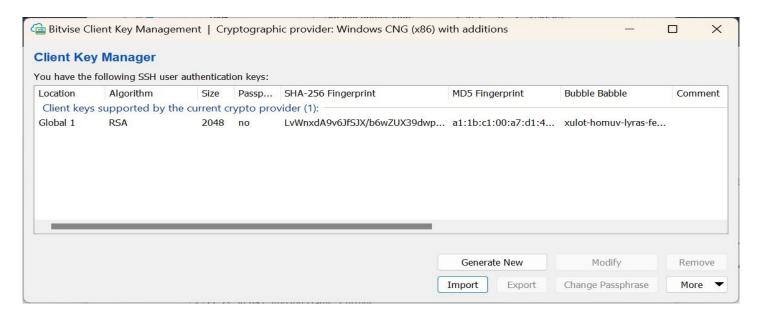
STEP 10: Paste IP address under Host, then go to "Client Key Manager" option



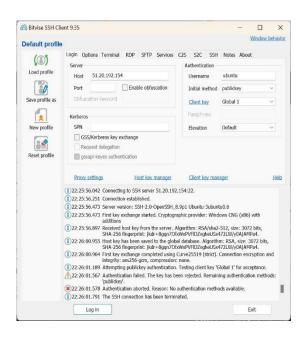
STEP 11→ Click on "Import" button & select the key, then click "Import"



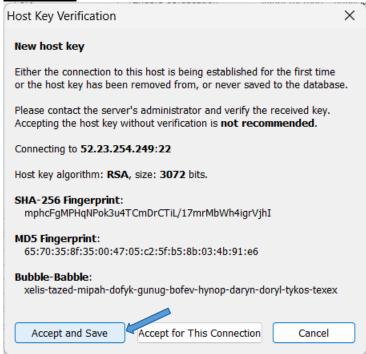
STEP 12-> The new key is successfully added, click "Import"



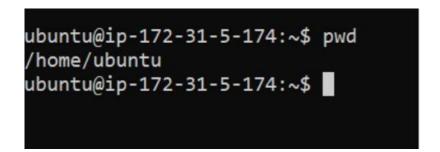
 $\underline{\text{STEP 13->}}$ Give the username as "ubuntu," select "Public Key" & "Global 1", then click in the "Log in" button



STEP 14-> Click on "Accept & Save" button: Accept and save the connection



<u>STEP 15-></u> Now the client is connected: Verify that the client has successfully established a connection to the EC2 instance.

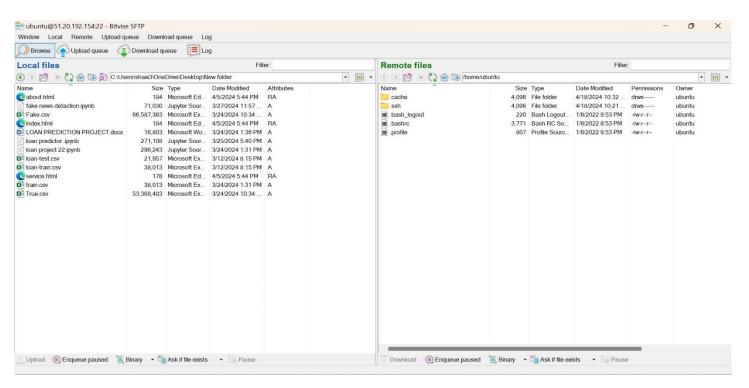




STEP 16: Click on "New SFTP Window" button: Open a new SFTP (Secure File Transfer Protocol) window.



STEP 17: Under Local Files, open the folder where the HTML files are present



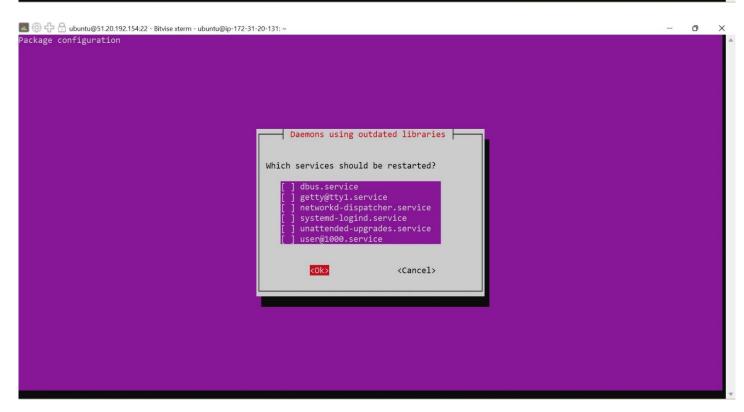
STEP 18: Go to the terminal and type the following commands. " sudo apt-get update
" , " sudo apt-get upgrade " , " sudo apt-get install nginx ".

<u>sudo apt-get update:</u> Updates the local package index to reflect the latest changes in repositories.

sudo apt-get upgrade: Upgrades installed packages to their latest available versions.
sudo apt-get install nginx: Installs the Nginx web server on the system.

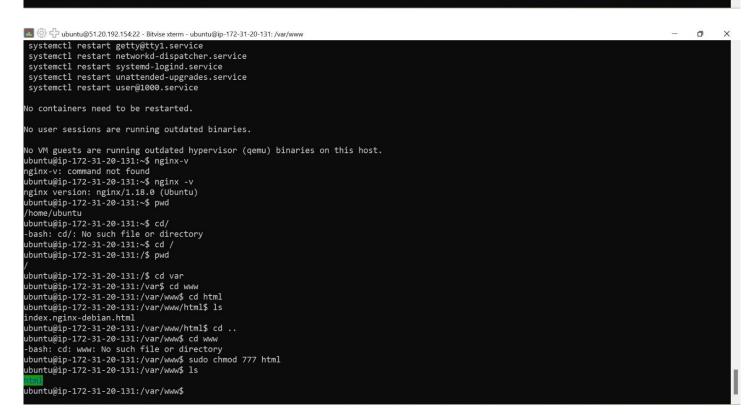
```
buntu@ip-172-31-3-213:∞$ sudo apt-get update
hit:1 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [109 kB]
Get:4 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:5 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 k
B]
Get:8 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [83
2 B]
Get:11 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1519 k
B]
Get:12 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [293 kB]
Get:13 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1644 kB]
Get:14 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [274 kB]
Get:15 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [274 kB]
Get:16 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [16 6 kB]
Get:17 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [18 6 kB]
Get:18 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [18 6 kB]
Get:19 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [274 kB]
Get:18 http://ap-southeast-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multivers
```

```
    Descripting up annual State 1.3 August 1.2 August
```

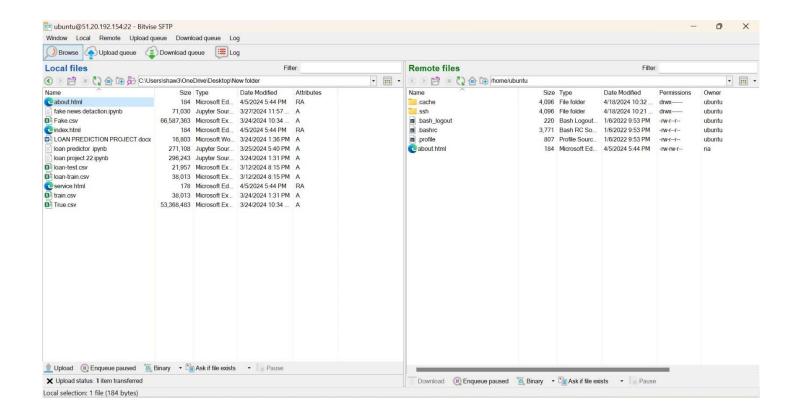


STEP 19: Type the command "sudo chmod 777 html" and press "Enter".

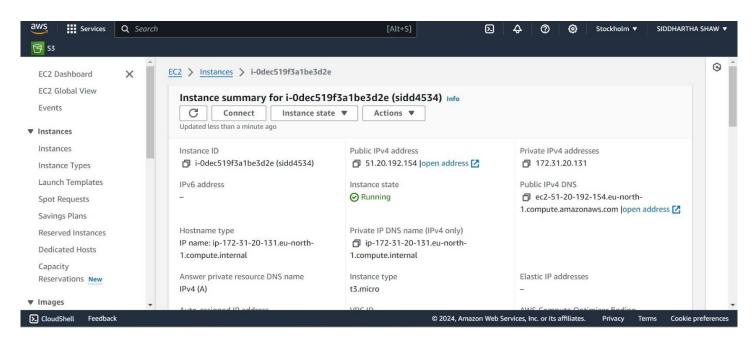
The command "sudo chmod 777 html" is used to change the permissions of the directory named "html" to allow full read, write, and execute permissions for all users.



<u>STEP 20:</u> 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 copy the public IPV4 address and paste in the new tab. Anyone can access it.



STEP 22: A new window will open with the webpage.

