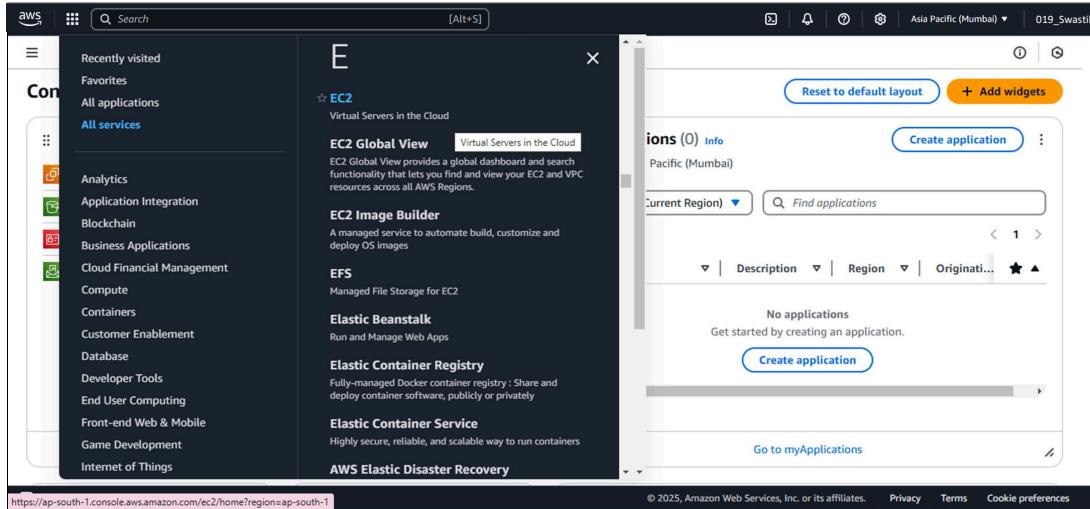


# ASSIGNMENT NO :- 07

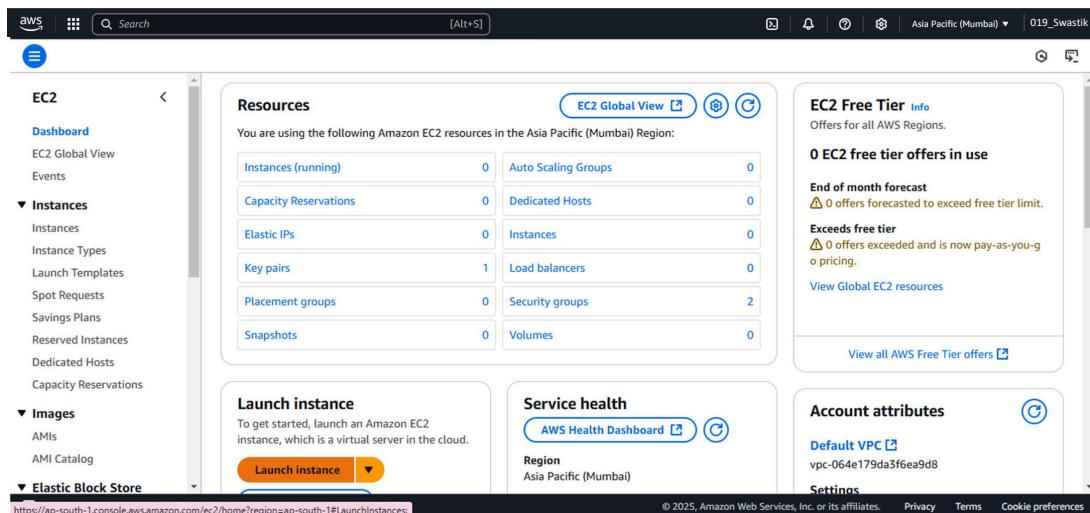
TITLE :- Hosting a website on EC2.

To Host a website on EC2 we have to follow some steps :-

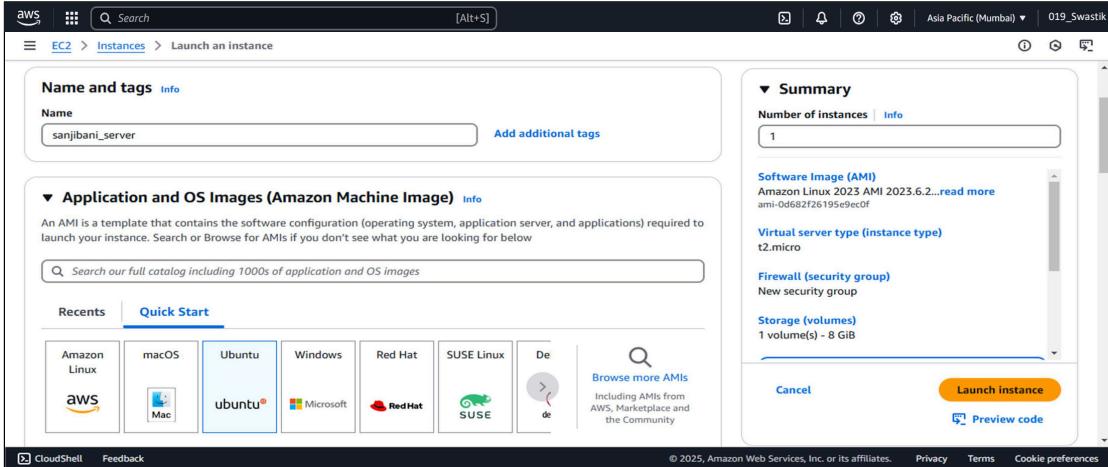
STEP 1 :-> Login to the account first. Then at the top left corner of AWS Management Console click on the Services and then click on All services and then go to EC2.



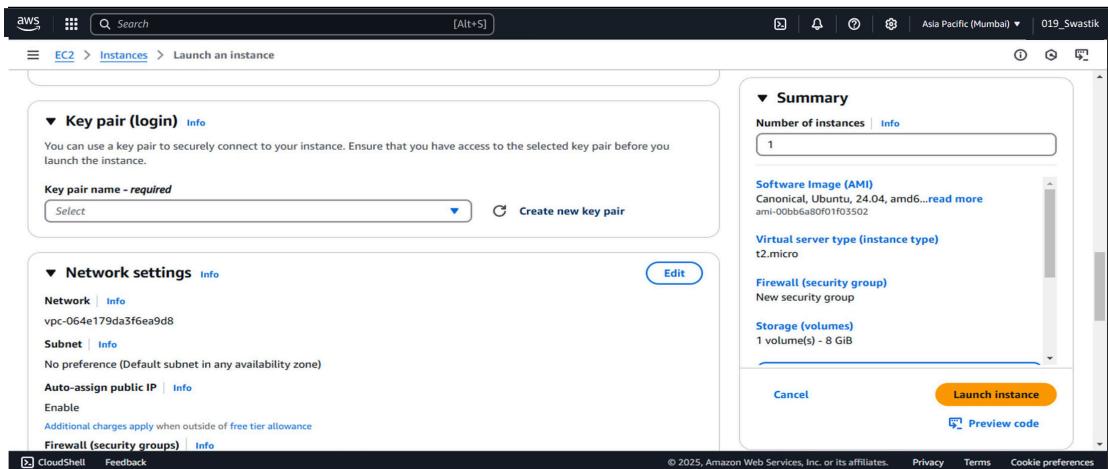
STEP 2 :-> At the left hand side EC2 go to the Dashboard and here you can check how many instances you have created . Click on Launch instance to create a new instance.



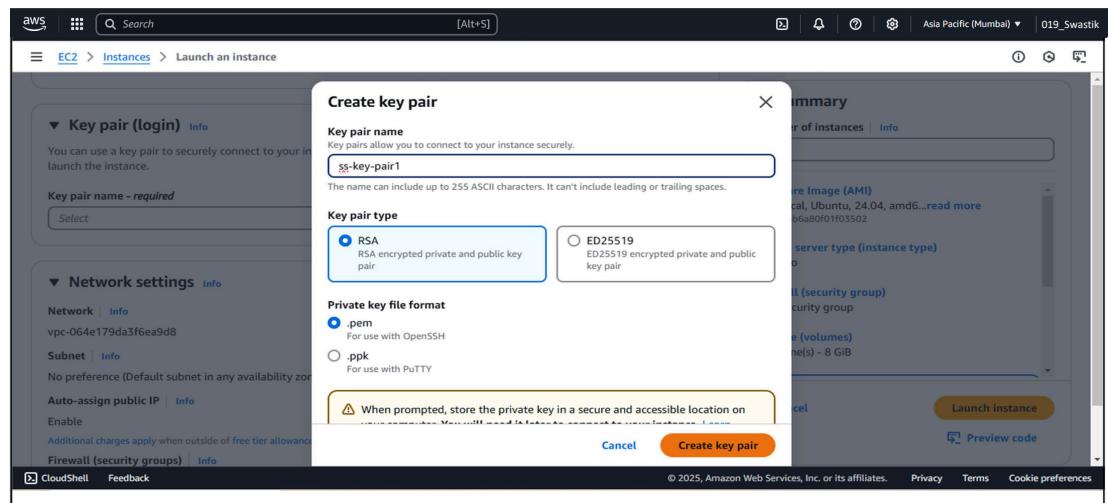
STEP 3 :-> Give your instance a Name and select appropriate Application and OS Images. Here we have selected Ubuntu.



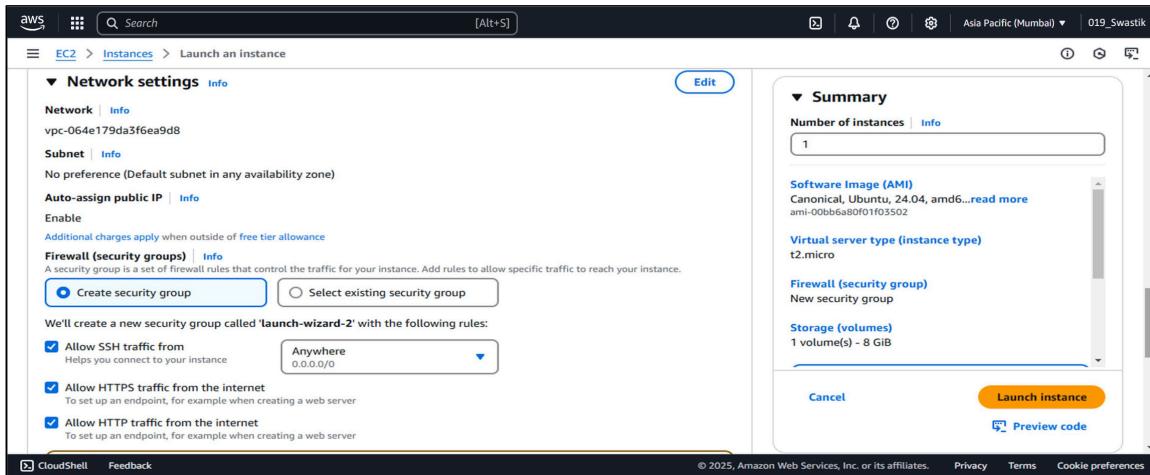
STEP 4 :-> Now Scroll down and go to Key pair (Login) and click on Create new key pair



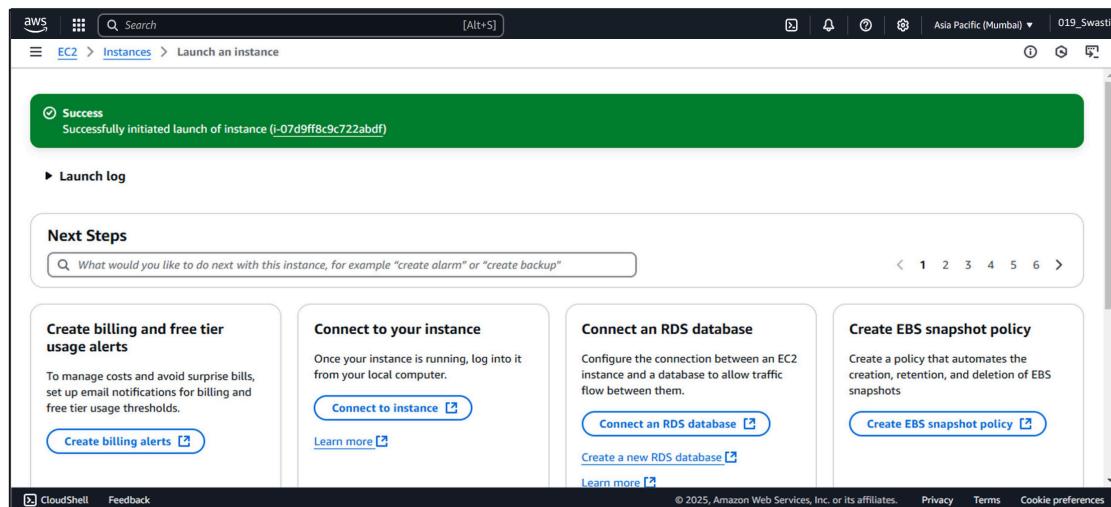
>> Give a Key pair name , Select the key pair type as RSA and give private key file format as .pem and click on Create key pair . Your Key pair file will be Downloaded automatically.



STEP 5 :-> Now Scroll down and go to Network settings and select go to Anywhere and select SSH , HTTPS,HTTP. And now Click on Launch instance at the Right hand side bottom of page.



STEP 6 :-> The instance is created Successfully.

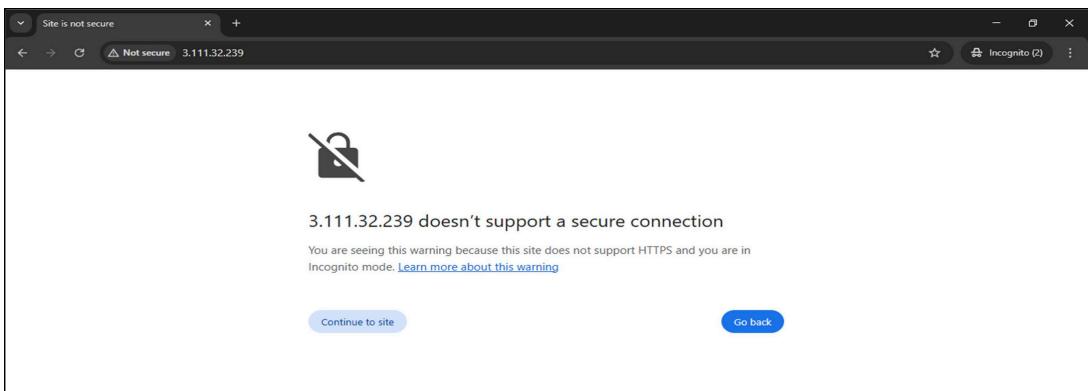


STEP 7 :-> Now go to Instance Dashboard and one can see the instance is created.

STEP 8 :-> Goto the Instances in left hand side and click on your Instance ID

STEP 9 :-> Copy the Public IPv4 Address and paste it in Incognito window.

>> Here you will get error



STEP 10 :-> Now go back to the Instance ID page and Click on Connect

EC2 > Instances > i-07d9ff8c9c722abdf

Instance summary for i-07d9ff8c9c722abdf (sanjibani\_server) [Info](#)

[Connect](#) [Instance state](#) [Actions](#)

Updated 2 minutes ago

Instance ID	Public IPv4 address	Private IPv4 addresses
i-07d9ff8c9c722abdf	3.111.32.239   <a href="#">open address</a>	172.31.5.130
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-3-111-32-239.ap-south-1.compute.amazonaws.com   <a href="#">open address</a>
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-5-130.ap-south-1.compute.internal	ip-172-31-5-130.ap-south-1.compute.internal	-
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
IPv4 (A)	t2.micro	<a href="#">Opt-in to AWS Compute Optimizer for recommendations</a>
Auto-assigned IP address	VPC ID	
3.111.32.239 [Public IP]	vpc-064e179da3f6ea9d8	

>> Give Connection Type as Connect using EC2 Instance Connect and here the username is Ubuntu , and then Click on Connect at the bottom of the page.

EC2 > Instances > i-07d9ff8c9c722abdf > Connect to instance

EC2 Instance Connect | Session Manager | SSH client | EC2 serial console

Instance ID: i-07d9ff8c9c722abdf (sanjibani\_server)

Connection Type:

Connect using EC2 Instance Connect  
Connect using the EC2 Instance Connect browser-based client, with a public IPv4 or IPv6 address.

Connect using EC2 Instance Connect Endpoint  
Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IPv4 address: 3.111.32.239

IPv6 address: -

Username: ubuntu

Note: In most cases, the default username, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

Cancel [Connect](#)

>> After the Connection is Setup one will get the Terminal from where further steps can be proceed.

```

Security Maintenance for Applications is not enabled.
Updates can be applied immediately.

: ESM Apps to receive additional future security updates.
:tppa://ubuntu.com/esm or run: sudo pro status

List of available updates is more than a week old.
Check for new updates run: sudo apt update

Programs included with the Ubuntu system are free software;
exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

! Comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
! applicable law.

! A command as administrator (user "root"), use "sudo <command>".
! Run sudo_root" for details.

$ ip -172-31-5-130:~$ 

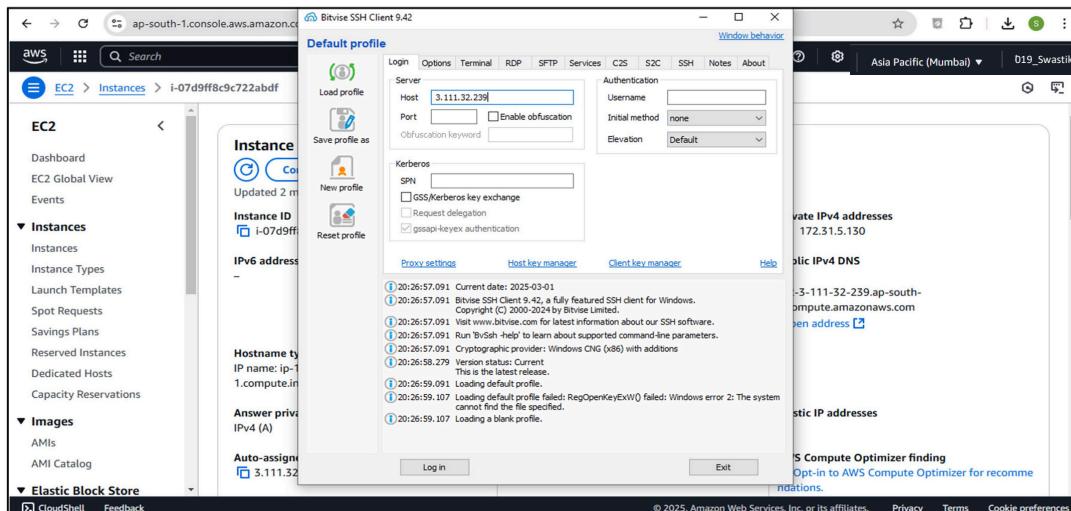
d9fffc8c9c722abdf (sanjibani_server)
Public IPs: 3.111.32.239 Private IPs: 172.31.5.130

CloudShell Feedback

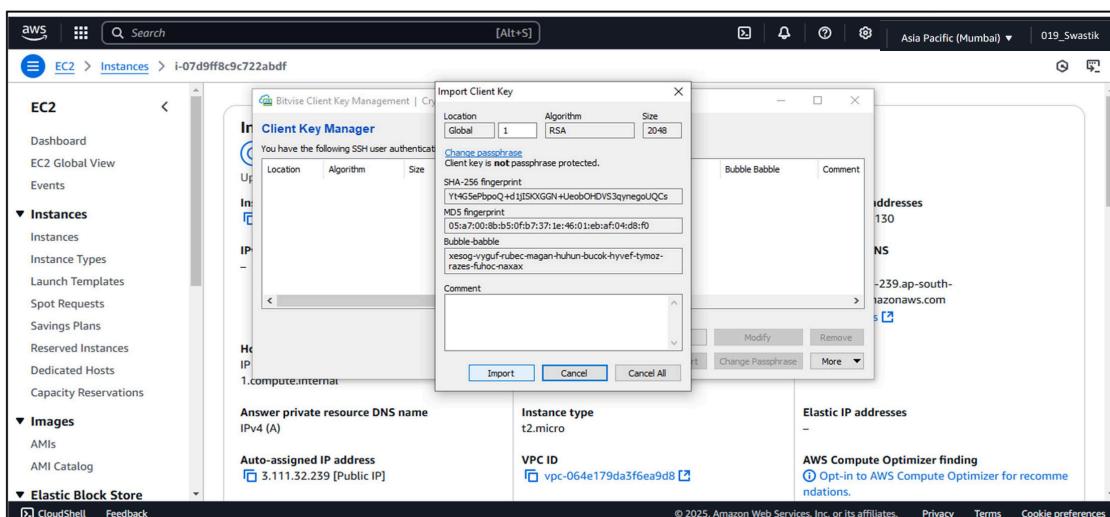
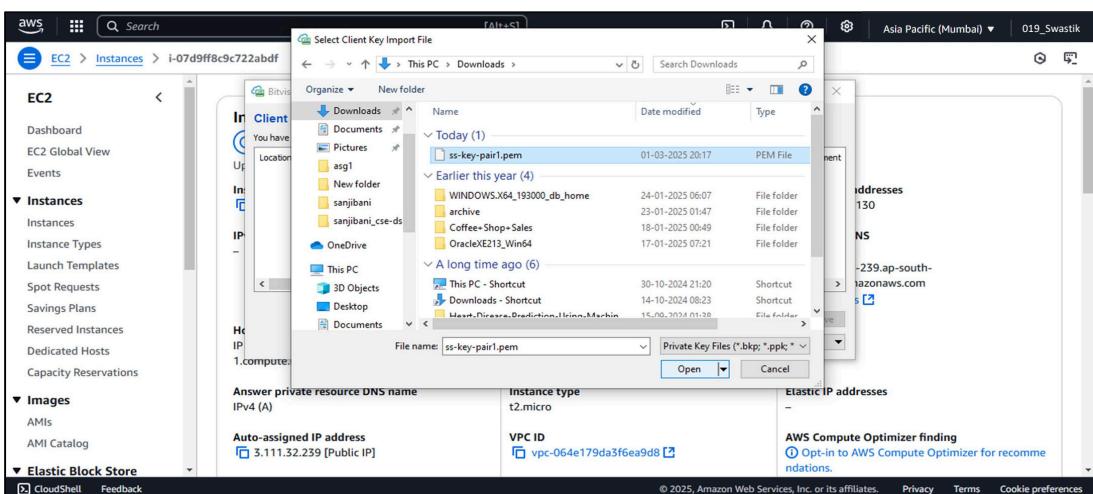
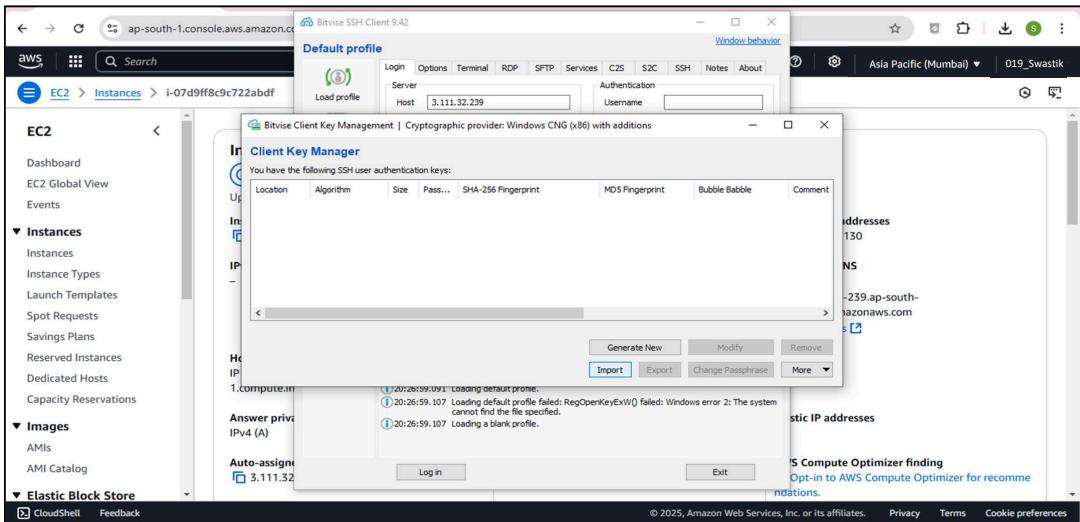
```

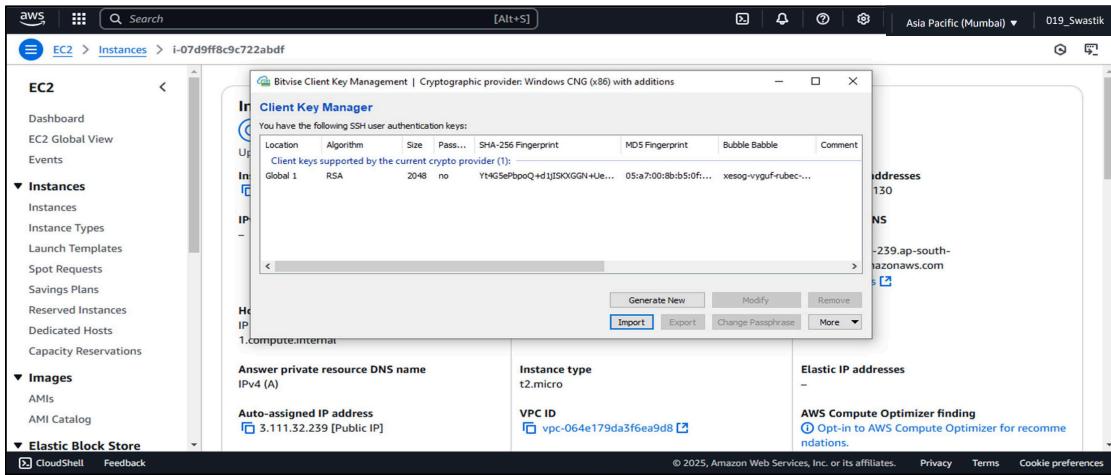
STEP 11 :-> But we will not use above connection process here, we will use Bitvise SSH Client.

>> Open the Bitvise SSH Client and paste the Public IPv4 Address in the Host and click on Client key manager

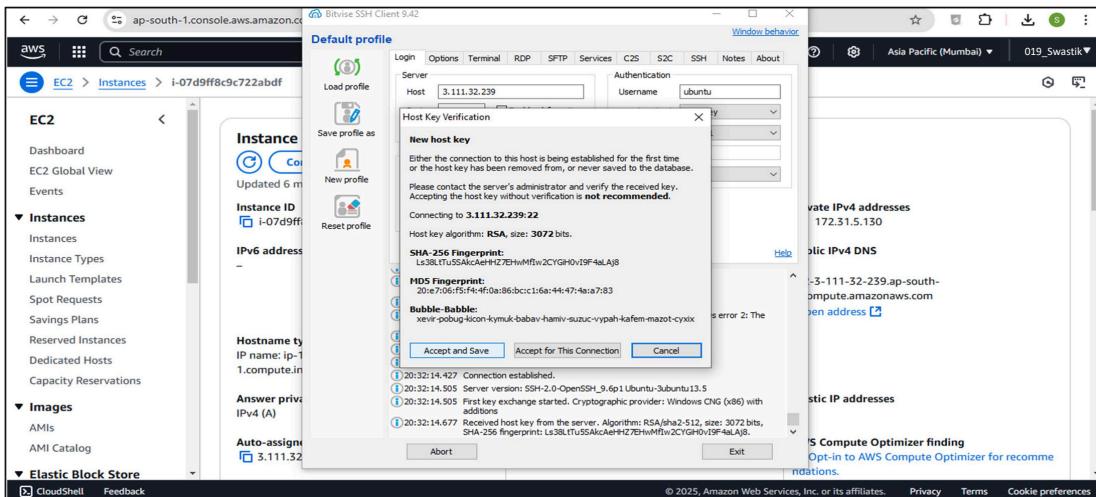
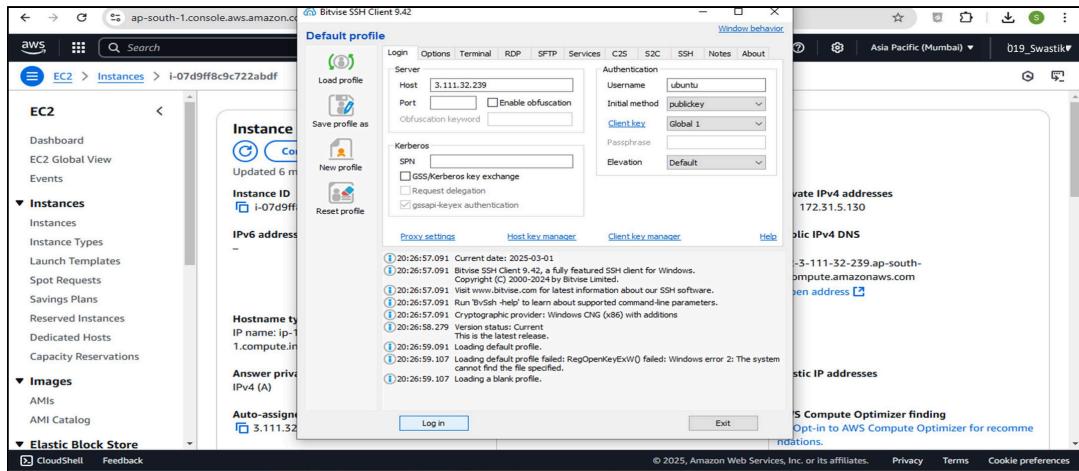


STEP 12 :-> A dialogue box will open for Client key manager and click on Import, then select your Downloaded key for this instance and again click on Import and your key will be named as Global1.

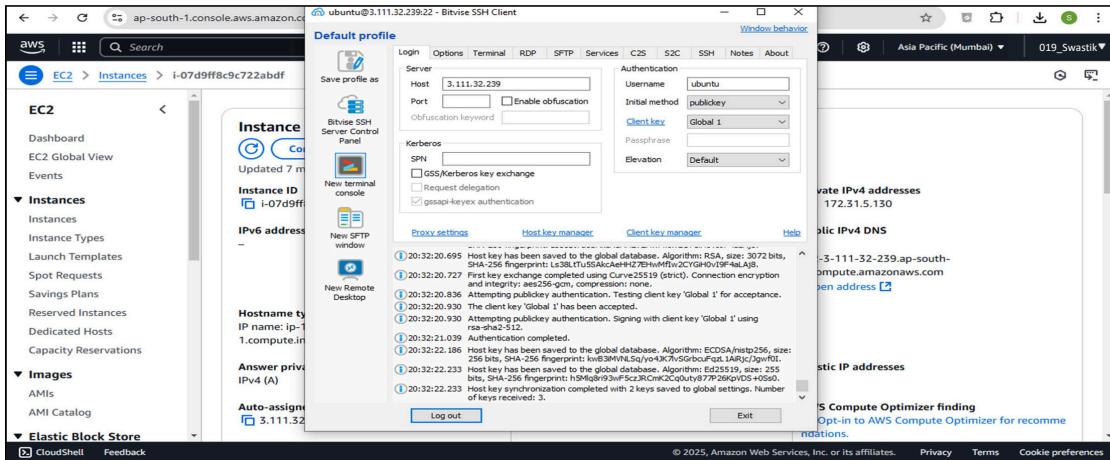




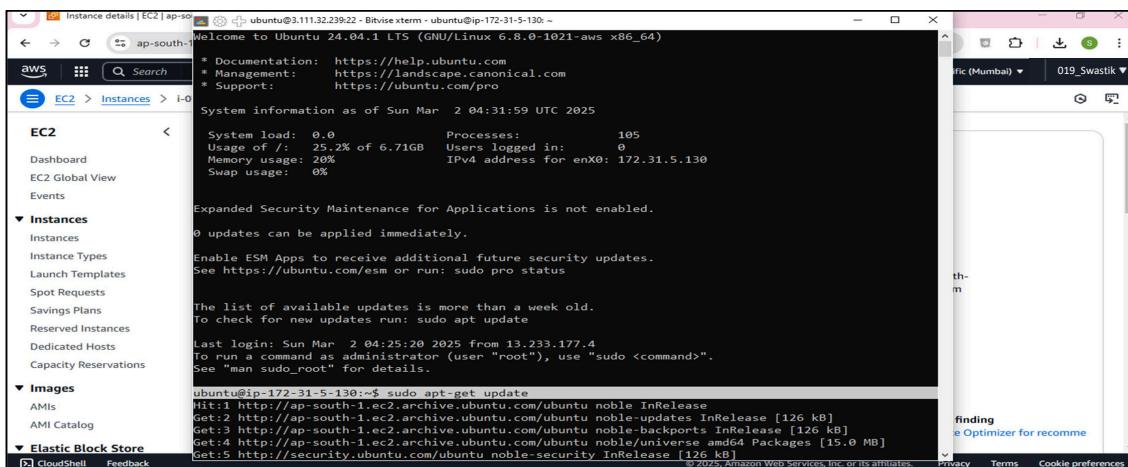
STEP 13 :-> Now on Bitvise SSH on Authentication side give Username as Ubuntu , select Initial method as publickey and Clientkey as Global1. Then click on Log in and then click on Accept and Save



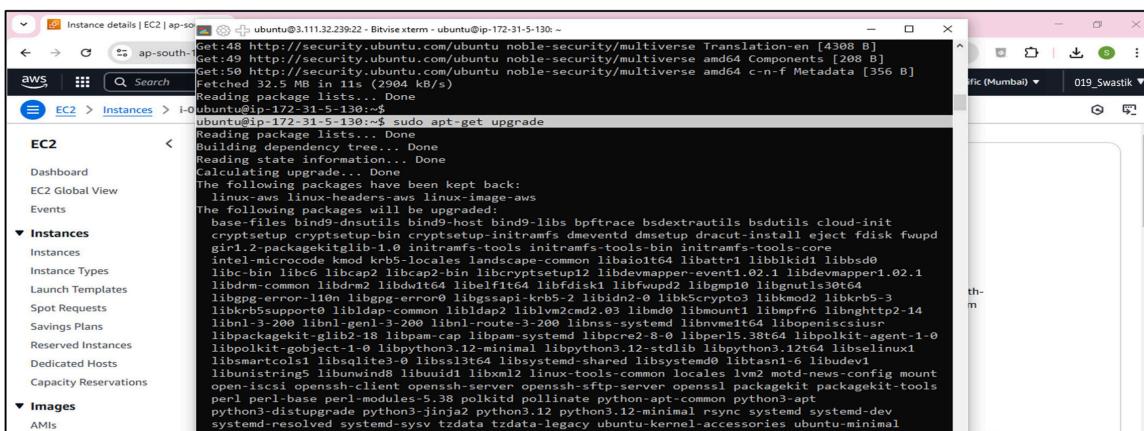
**STEP 14 :->** Now on Bitvise SSH Click on New Terminal Console and a Terminal will be open.



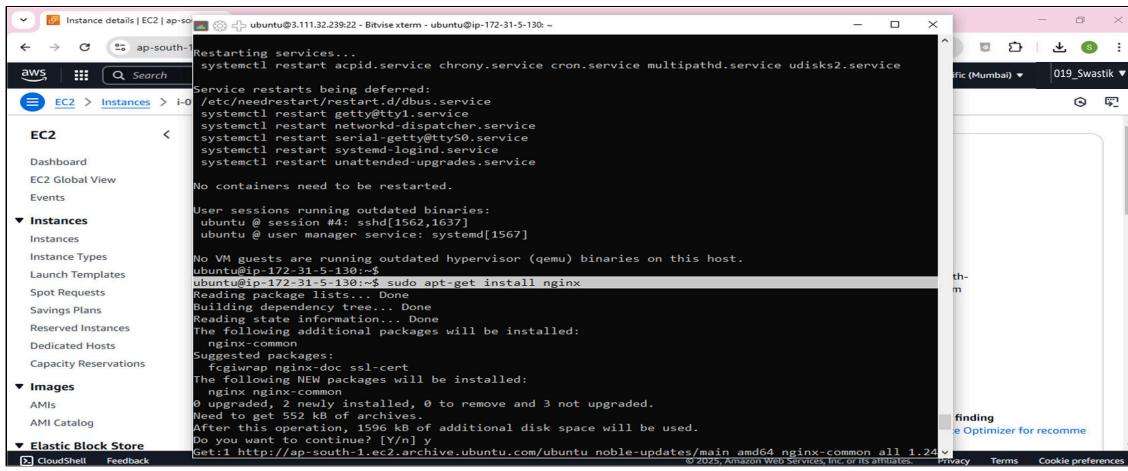
>> Write `sudo apt-get update` in the terminal and press Enter.



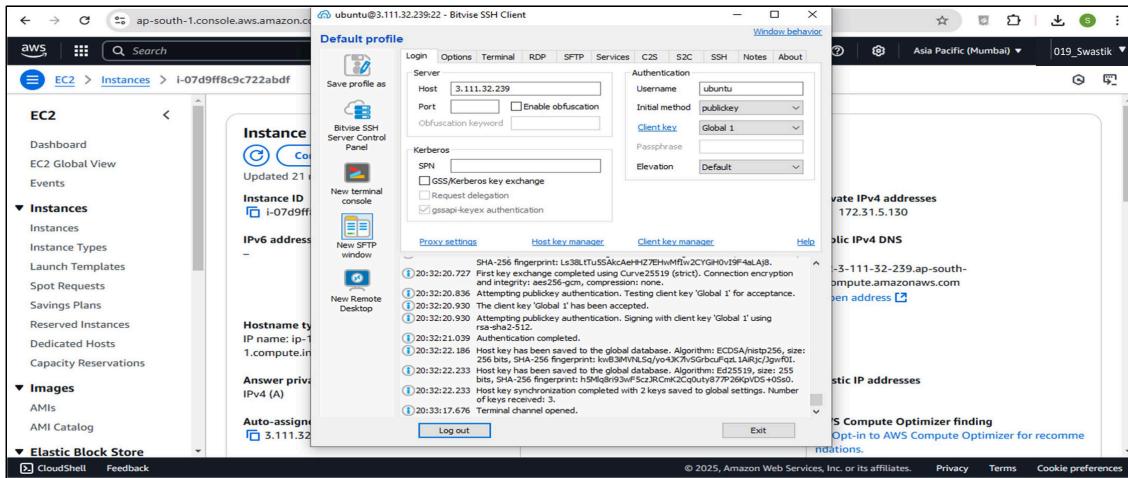
>> After that Write `sudo apt-get upgrade` in the terminal and press Enter.



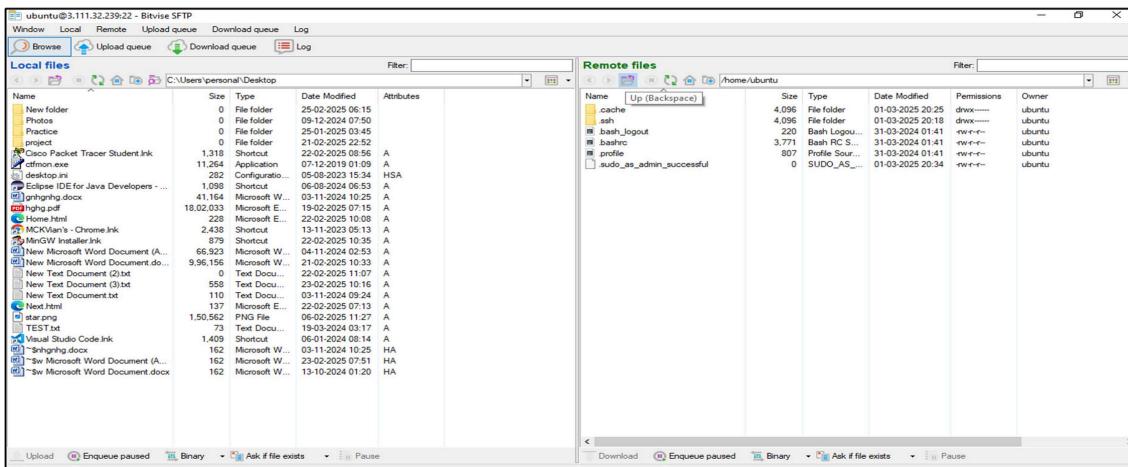
>> After that Write `sudo apt-get install nginx` in the terminal and press Enter.



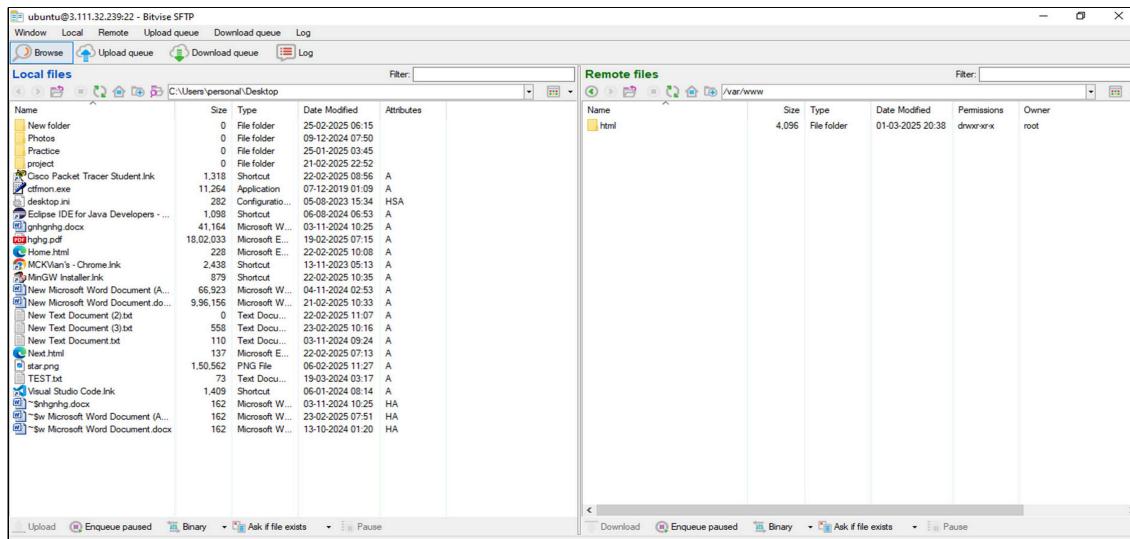
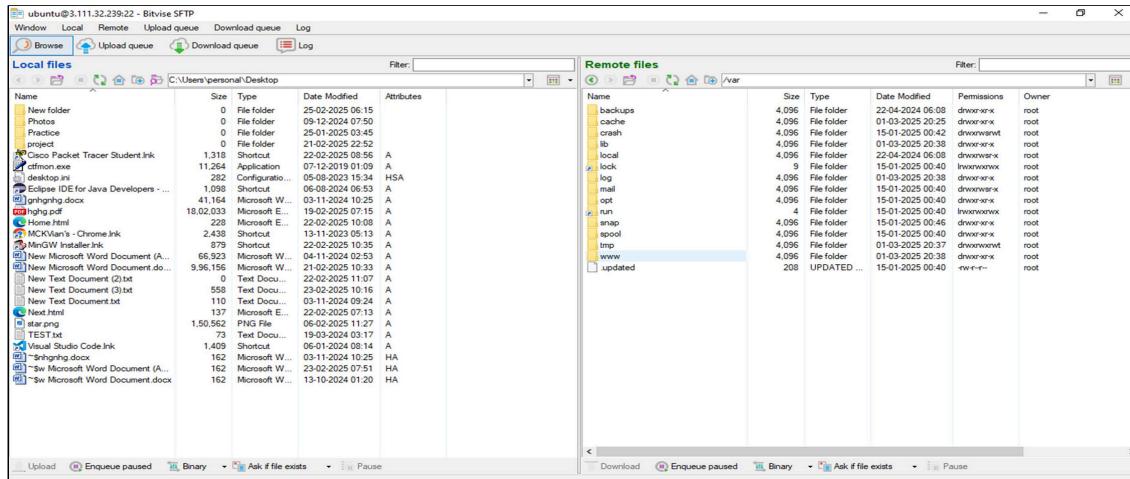
### STEP 15 :-> Go to the Bitvise Server and click on New SFTP Console



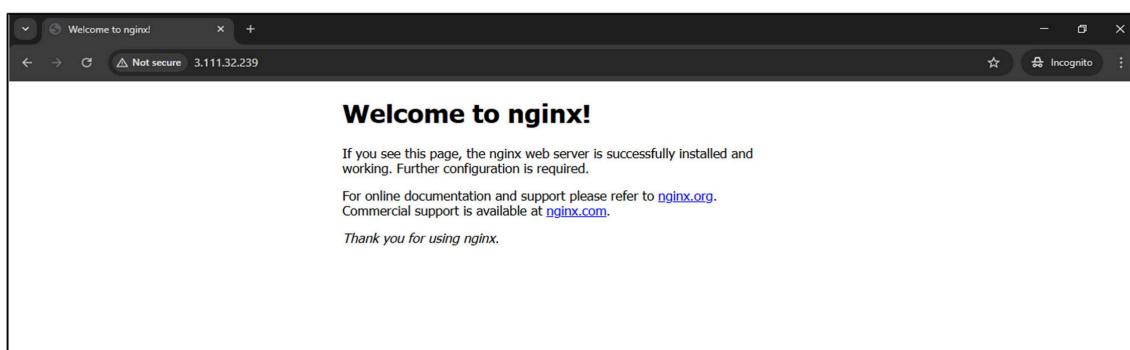
### STEP 16 :-> Now on Remote files side Click on Up tab 2 times



STEP 17 :-> Then Select the var folder ,in var folder select www folder and then in www folder select html folder.

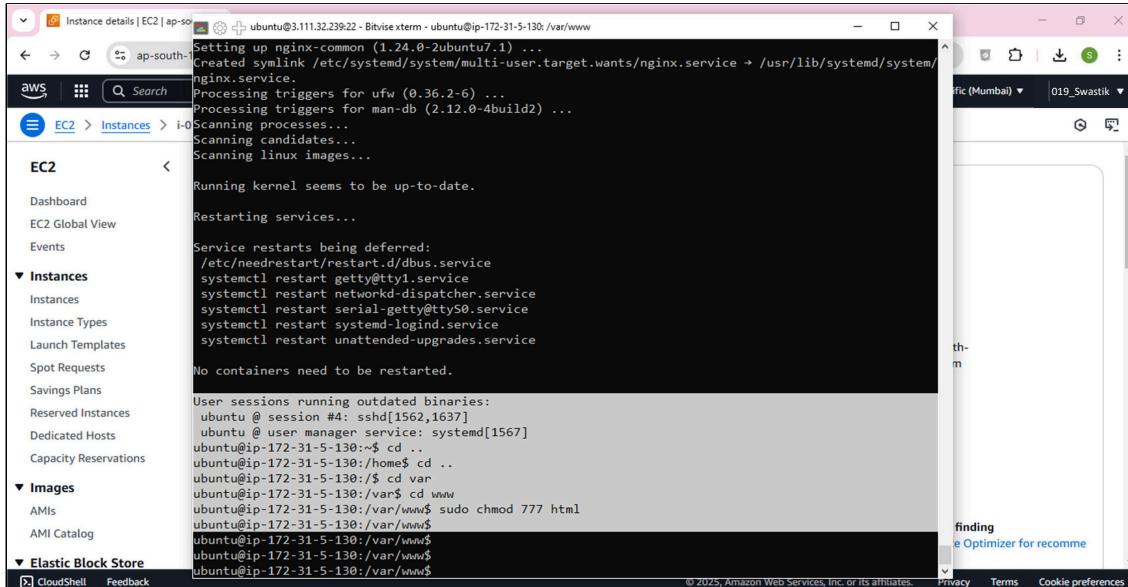


>> Now if we try to Copy the Public IPV4 Address and paste in in Incognito window we will get the Default nginx page



**STEP 18 :->** So we will try to Edit the html file so that we can save our Local Html files in Remote Files for Hosting For that we have to Change the mode of Html folder to allow us to write and Execute the files in it.

>> Open the Bitvise Terminal(Ubuntu) first go to your Root Directory then go to var directory then go to www directory ,and then in www directory type sudo chmod 777 html and then press Enter.



>> Now create Html pages and save it in your Local files ,Here we have done Two pages Home .html and Next.html

The image displays two separate Notepad windows. The left window is titled 'Home - Notepad' and contains the following HTML code:

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a Heading</h1>
<p> This is paragraph <p>
<a href="https://www.google.co.in/">Google</a>
<a href="Next.html">Next</a>
</body>
</html>
```

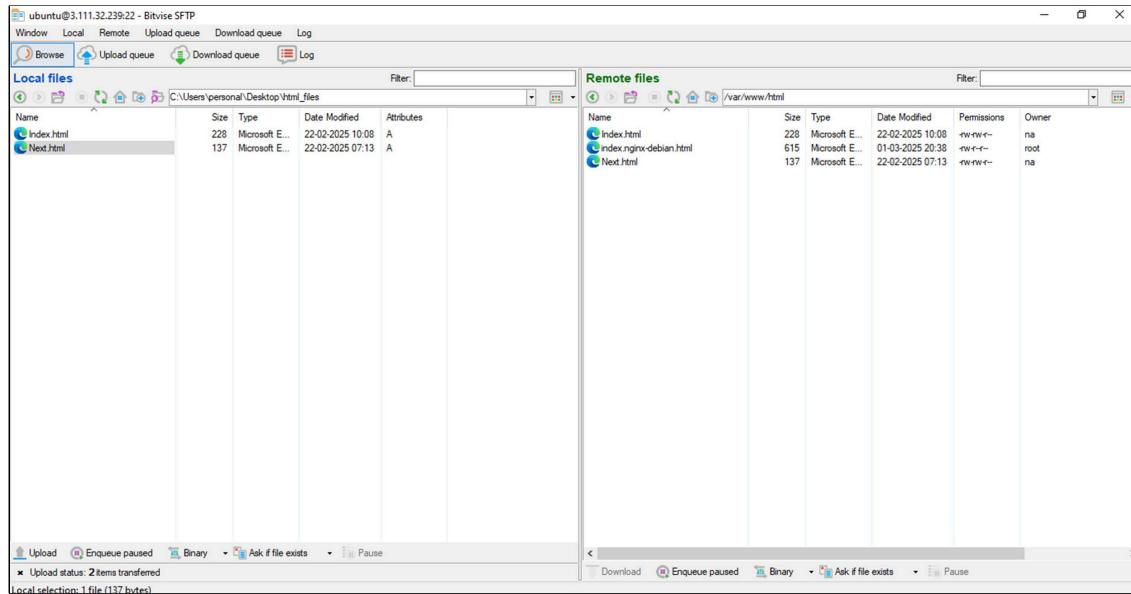
The right window is titled 'Next - Notepad' and contains the following HTML code:

```
<!DOCTYPE html>
<html>
<head>
<title>Next</title>
</head>
<body>

<h1>This is Next</h1>
<p> This is Next </p>

</body>
</html>
```

>> Go to the Bitvise SFTP Console and Drag your Local Html pages to The Remote Files html folder and delete the Default one. Here Save the Home.html As index.html



STEP 19 :-> After the file is save to Remote Files Section Go back to the AWS Console's Instance ID page and Copy the Public IPV4 Address

EC2 < Instances > i-07d9ff8c9c722abdf

Instance summary for i-07d9ff8c9c722abdf (sanjibani\_server) [Info](#)

Public IPv4 address copied

Public IPv4 address: 3.111.32.239 | [open address](#)

Private IP4 addresses: 172.31.5.130

Public IPv4 DNS: ec2-3-111-32-239.ap-south-1.compute.amazonaws.com | [open address](#)

Private IP DNS name (IPv4 only): ip-172-31-5-130.ap-south-1.compute.internal

Instance state: Running

Instance type: t2.micro

VPC ID: vpc-064e179da3f6ea9d8

Elastic IP addresses: -

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations.

**STEP 20 :->** Paste The Copied Address in Incognito Window and now you can see your Web page is Showing.

