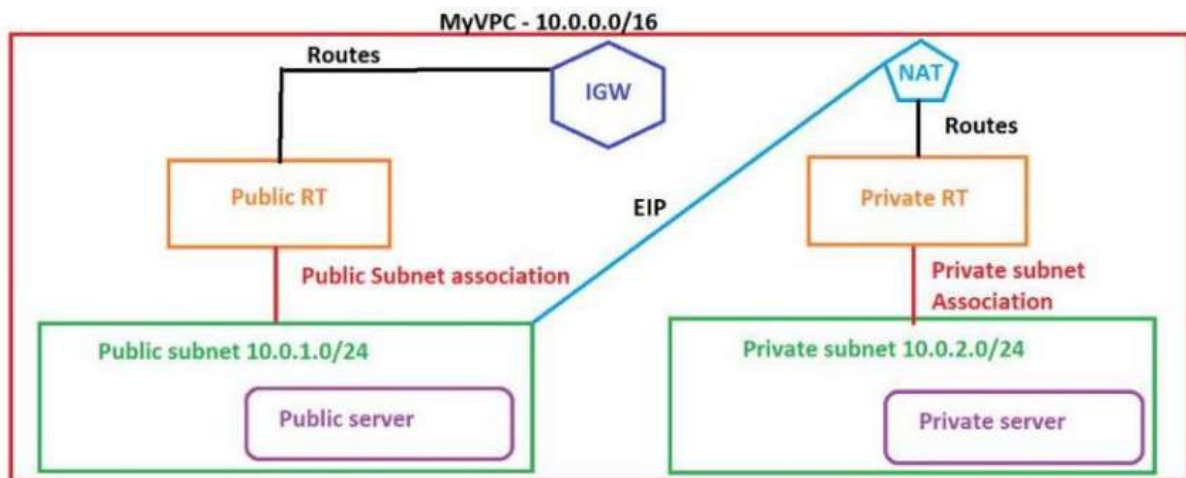


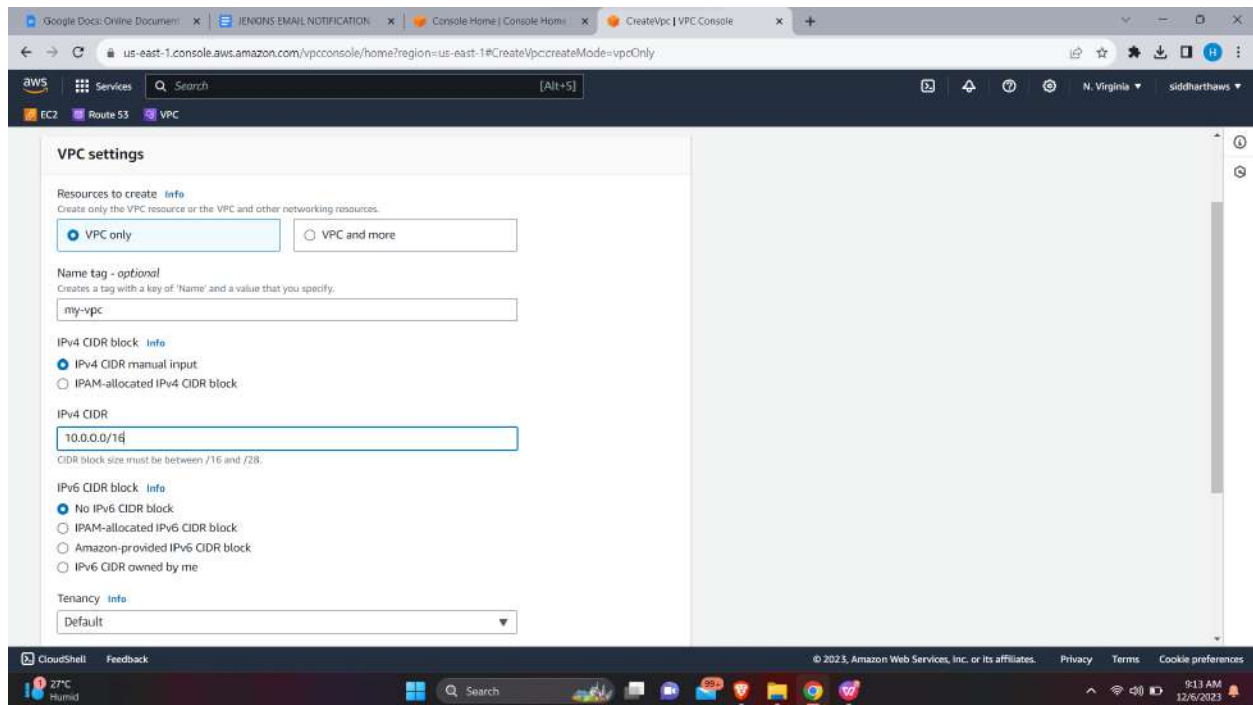
AWS VIRTUAL PRIVATE CLOUD

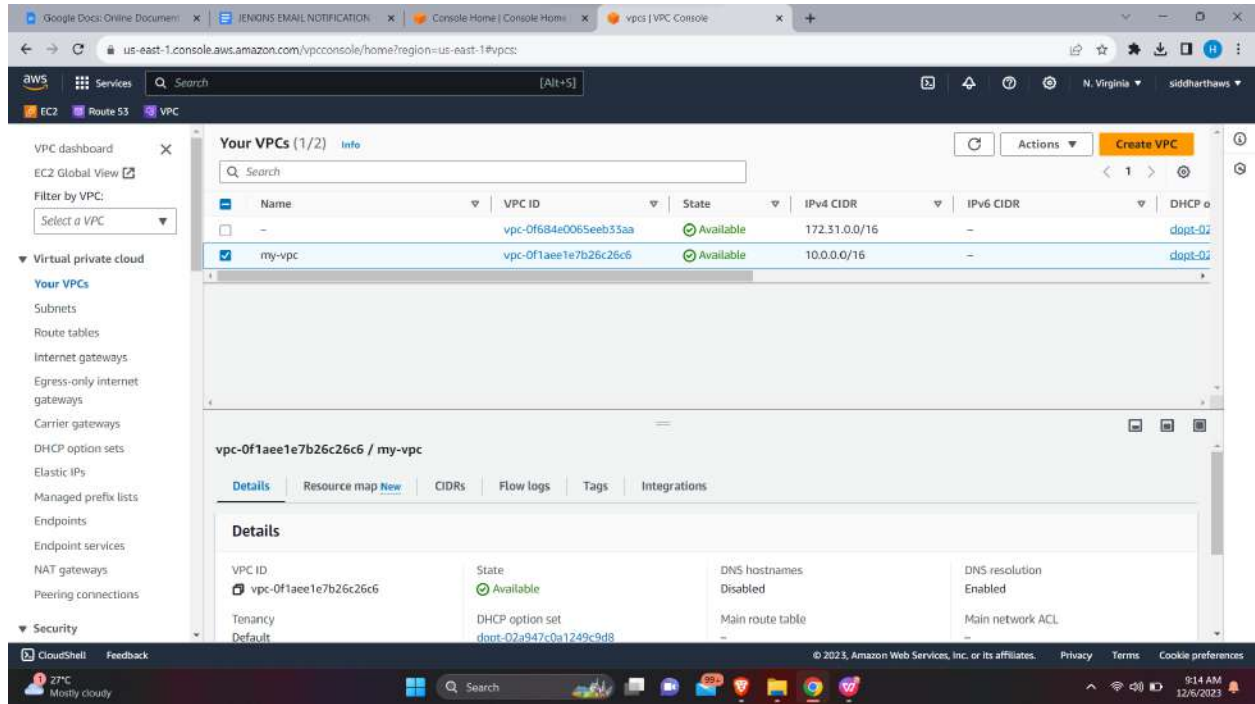
Steps to Create and Configure your VPC for Public and Private Server in Windows.

MY VPC ARCHITECTURE:

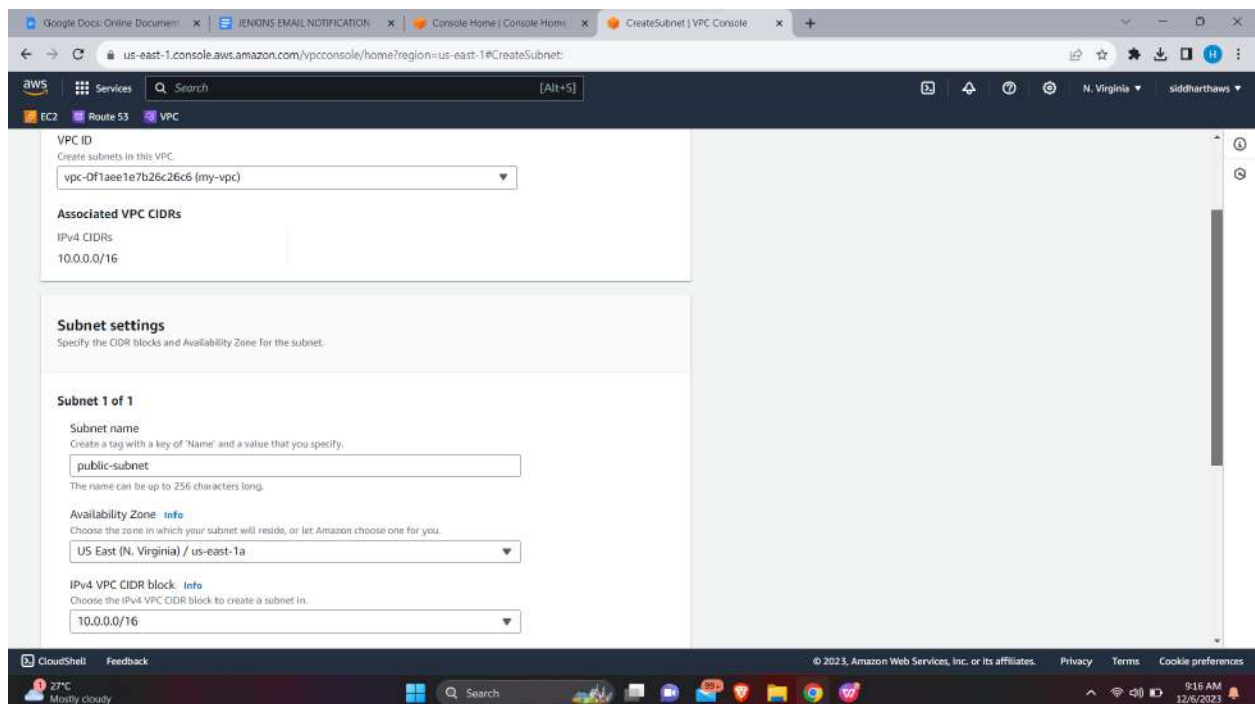


Go to VPC - Create VPC - Set a name (my-vpc) - IPv4 CIDR (10.0.0.0/16) - Tenancy (Default) - create a VPC.

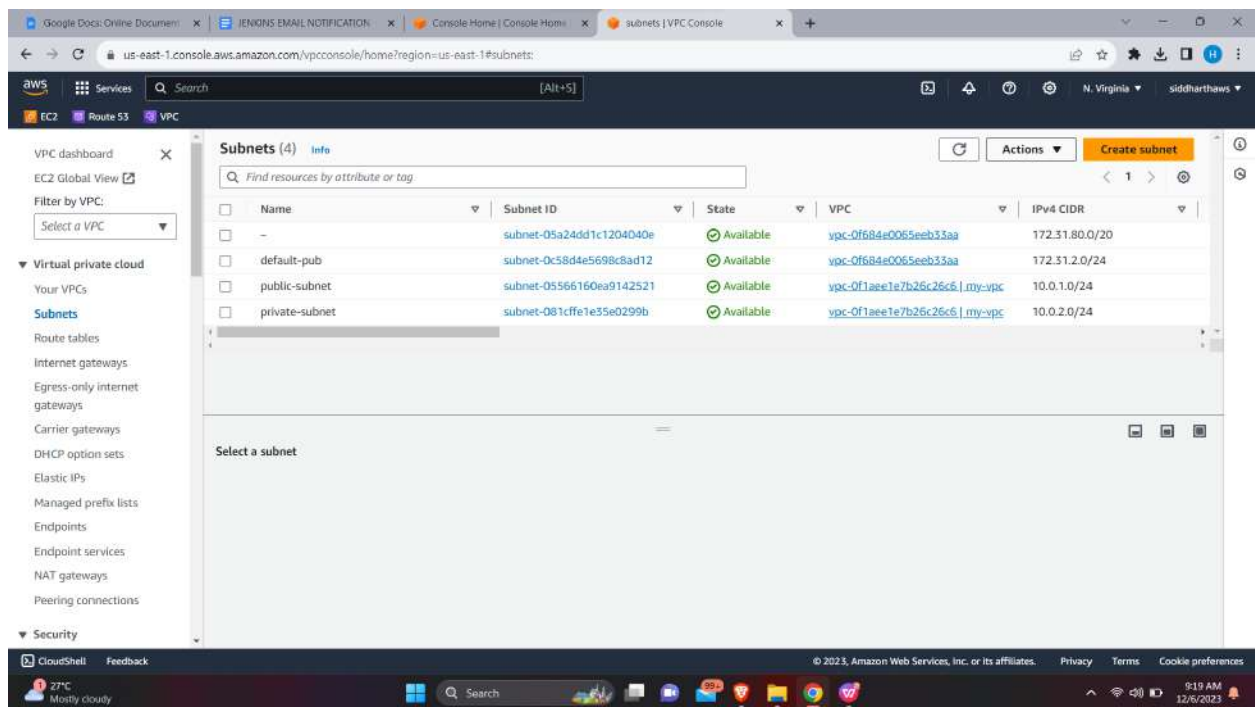
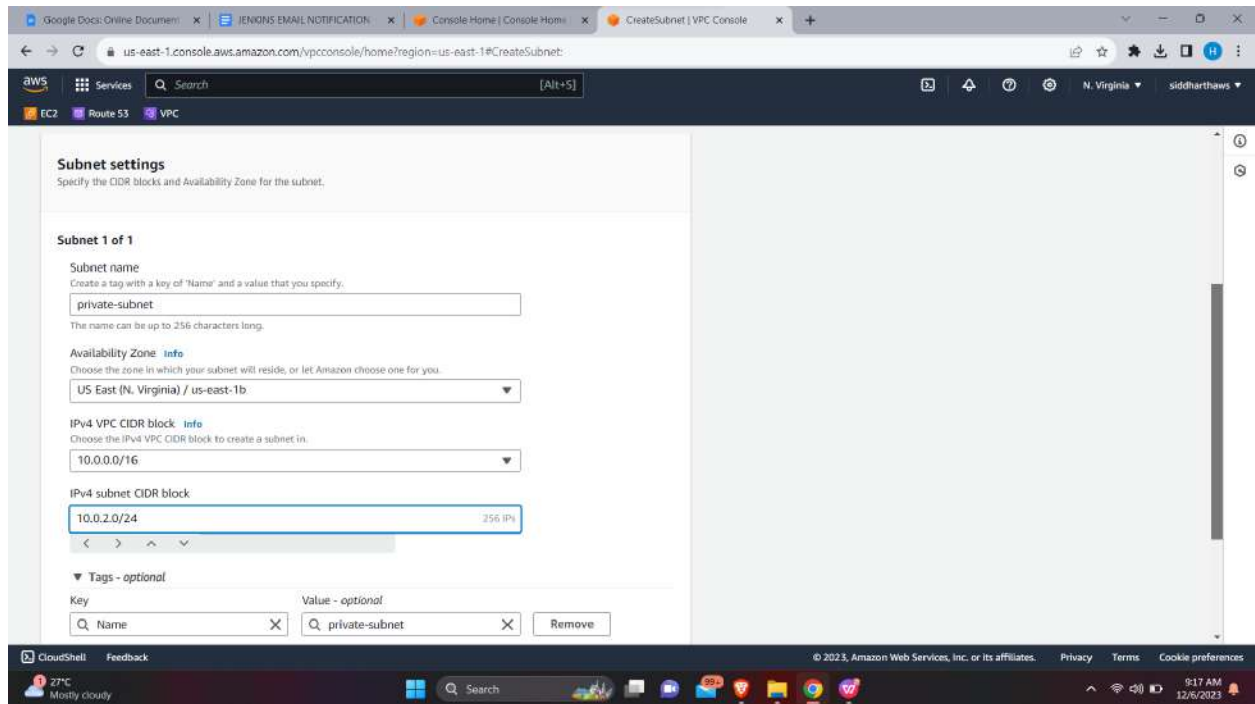




In Subnets - Create Subnet - Set a name (public Subnet) - Avail Zone (1a) - IPv4 CIDR block (10.0.1.0/24) - create a public subnet.

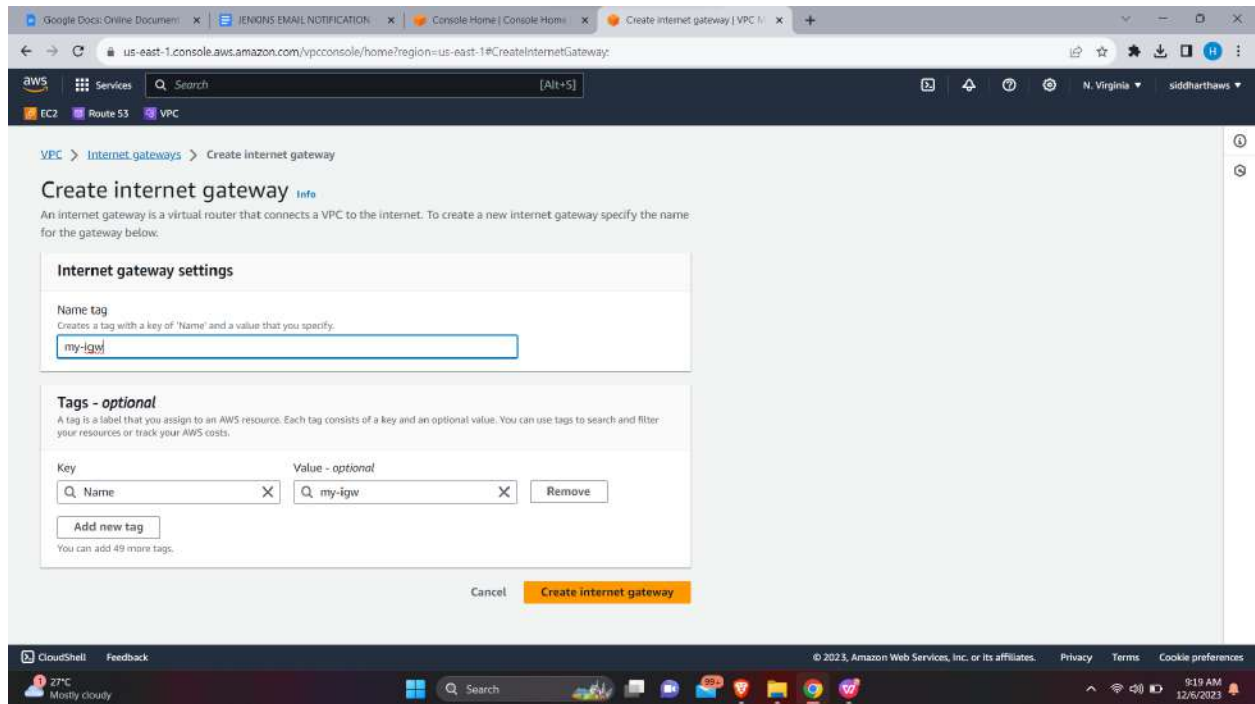


Create Subnet - Set a name (private Subnet) - Avail Zone (1b) - IPv4 CIDR block (10.0.2.0/24) - create a private subnet.

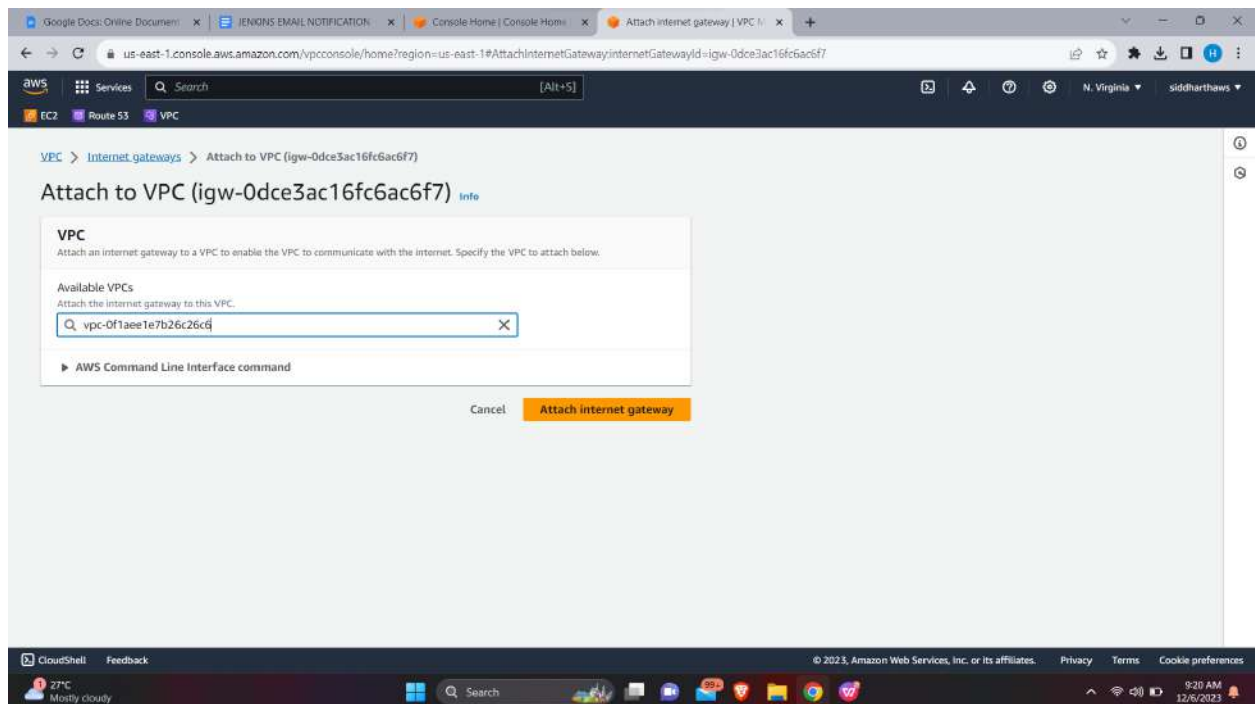


Successfully created both public and private subnets.

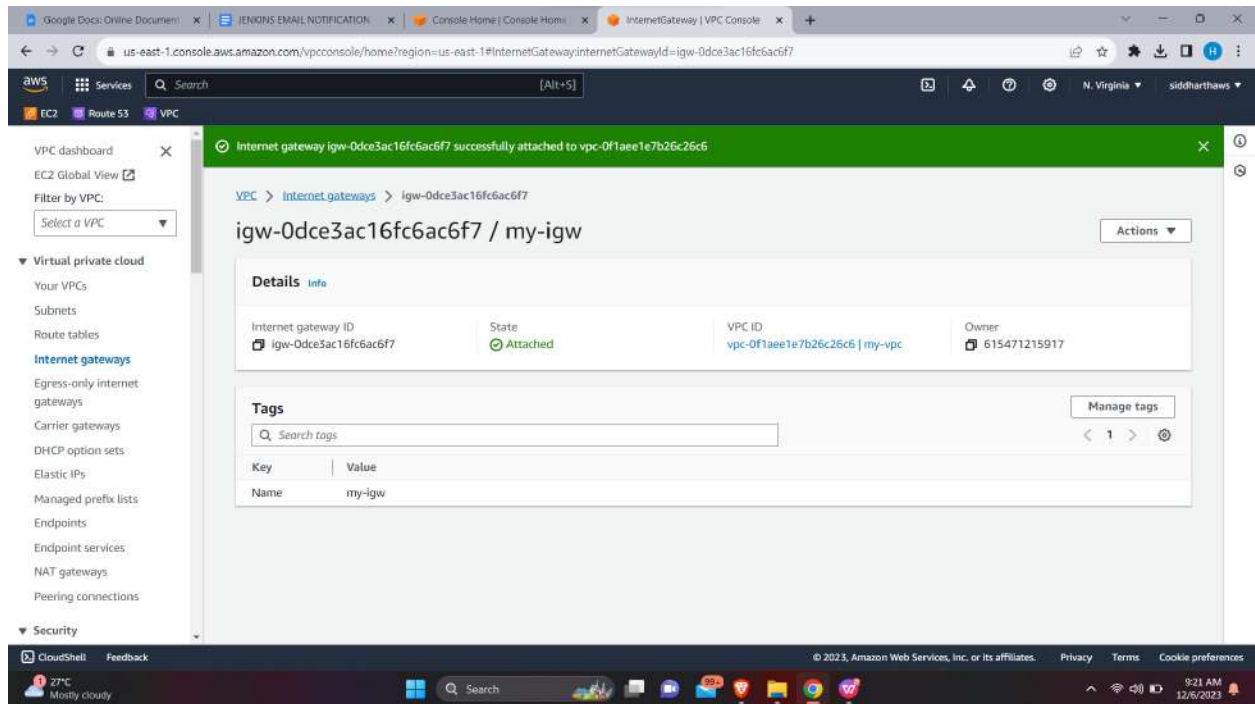
In Internet Gateway - Create Internet Gateway - Set a name (my-igw) - create.



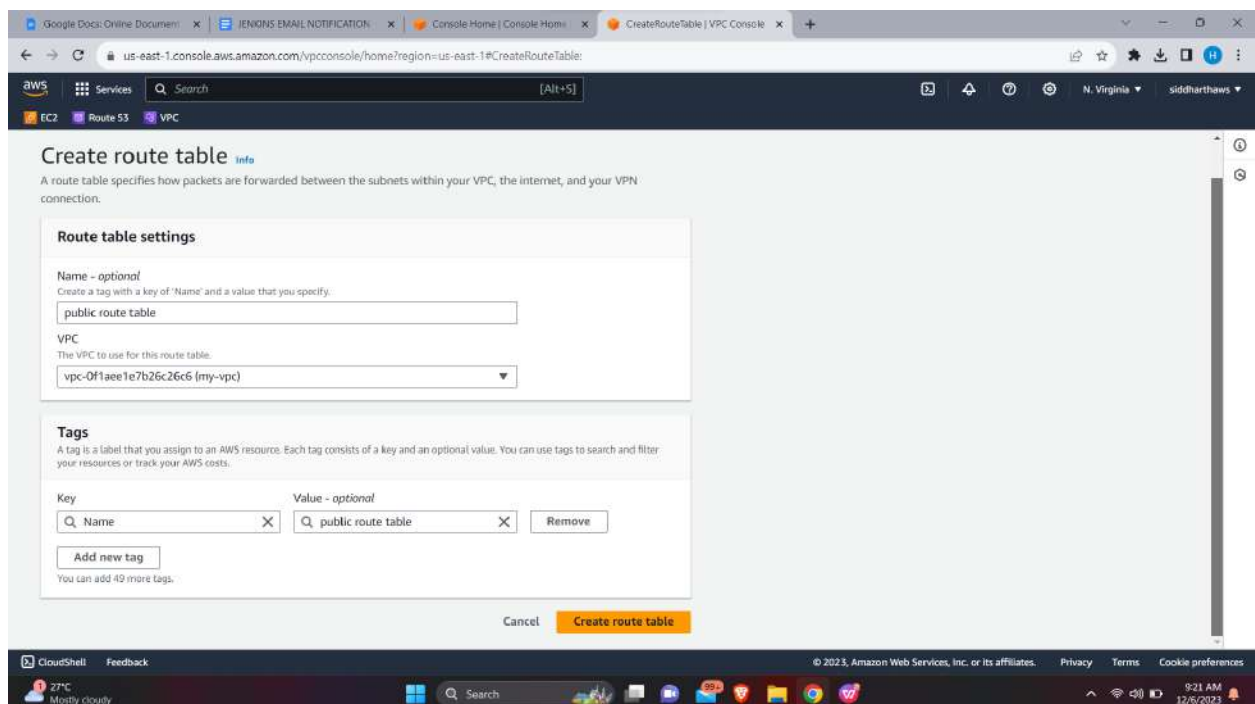
After created Internet gateway, it will be Detached - In Action - Select Attach to VPC
Choose my-vpc - Attach internet Gateway



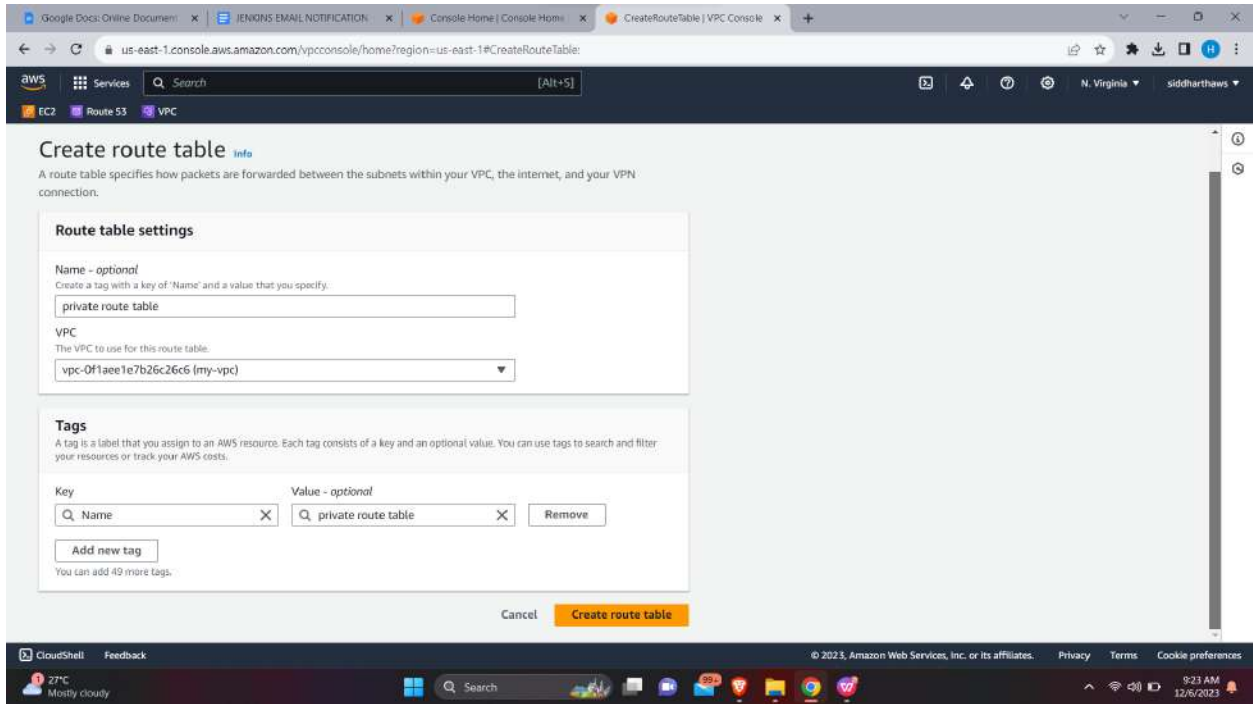
Now Successfully Attached my-vpc in Internet gateway



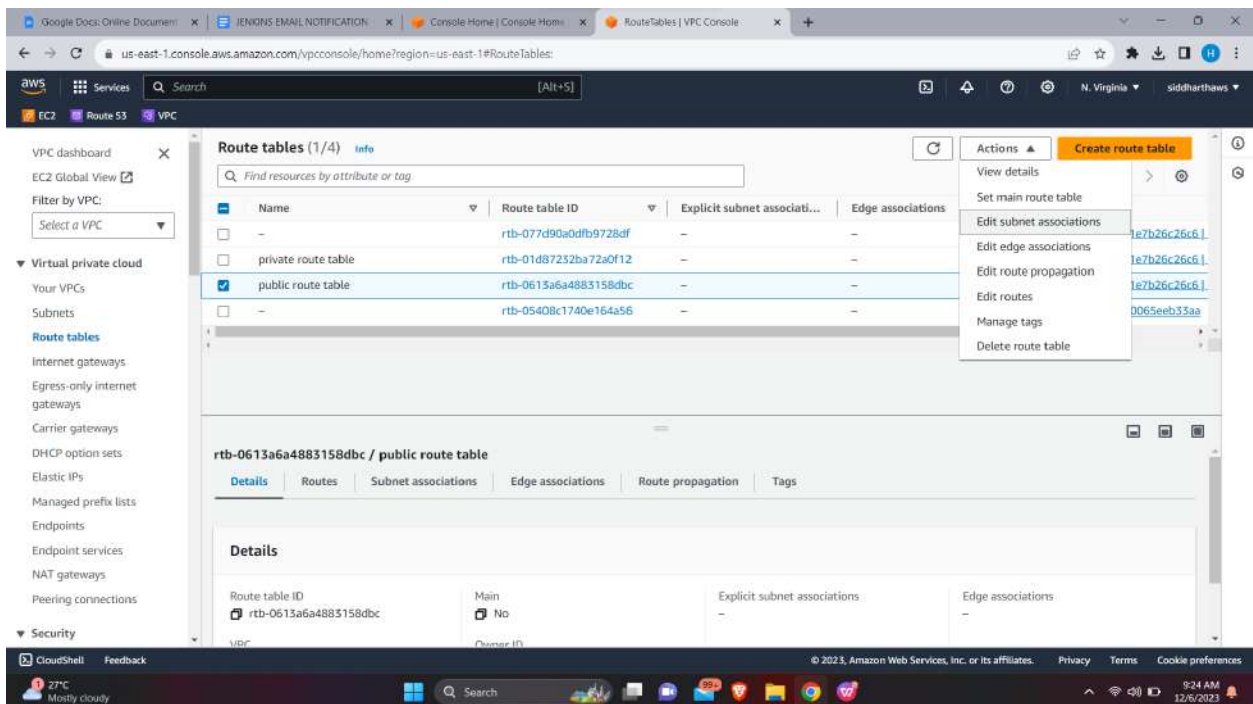
In Route Tables - Create - Set a name (public route table) - Choose my-vpc - Create route Table.



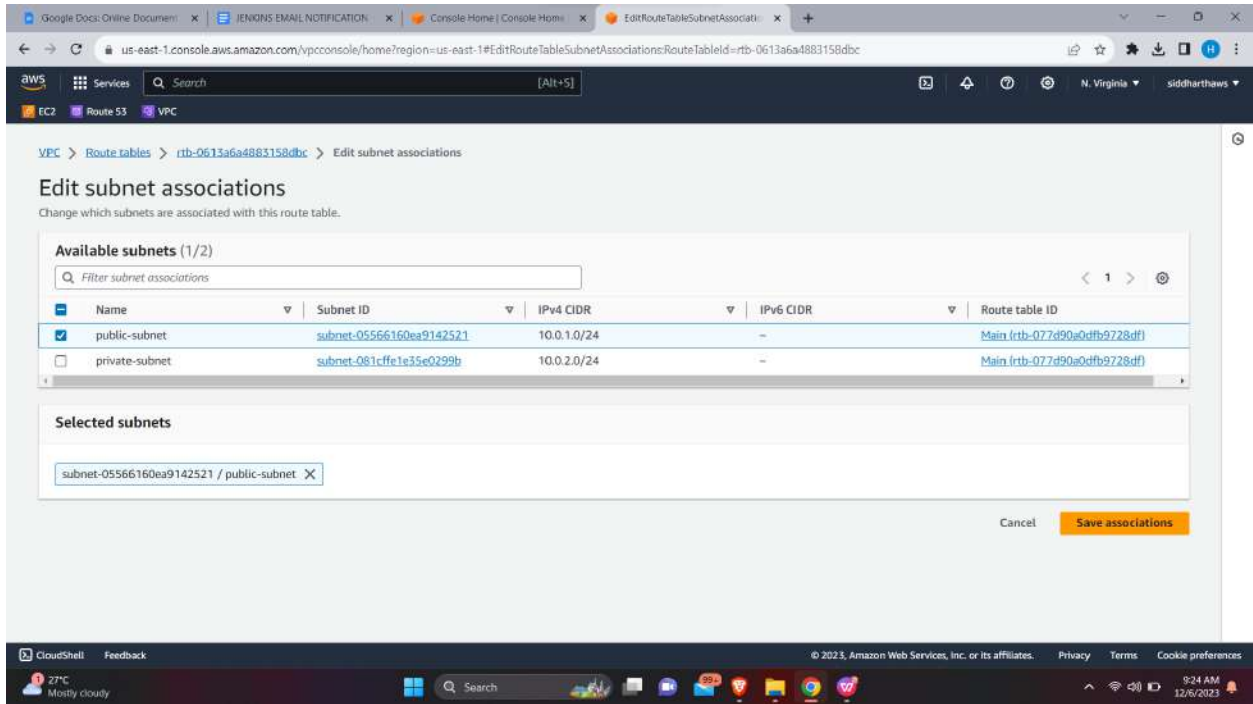
Create - Set a name (private route table) - Choose my-vpc - Create route table.



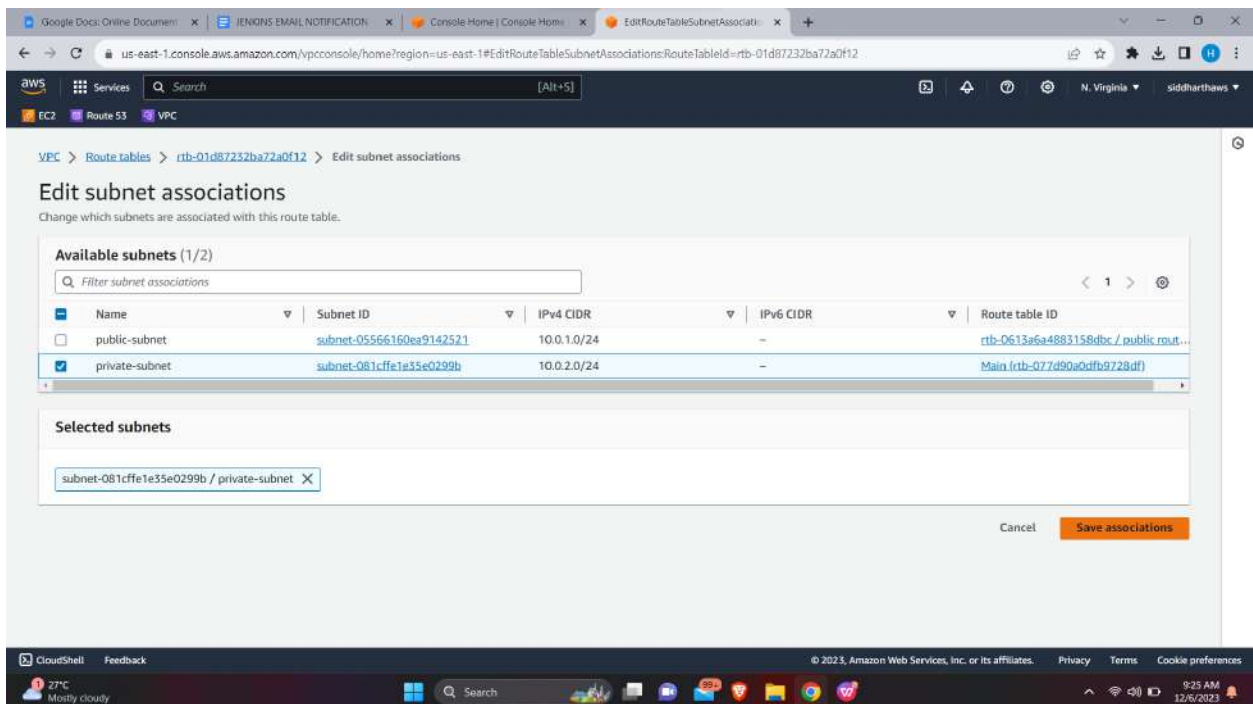
create a subnet association for both public and private route tables
In route table - Select public route table - Action - edit subnet Association.



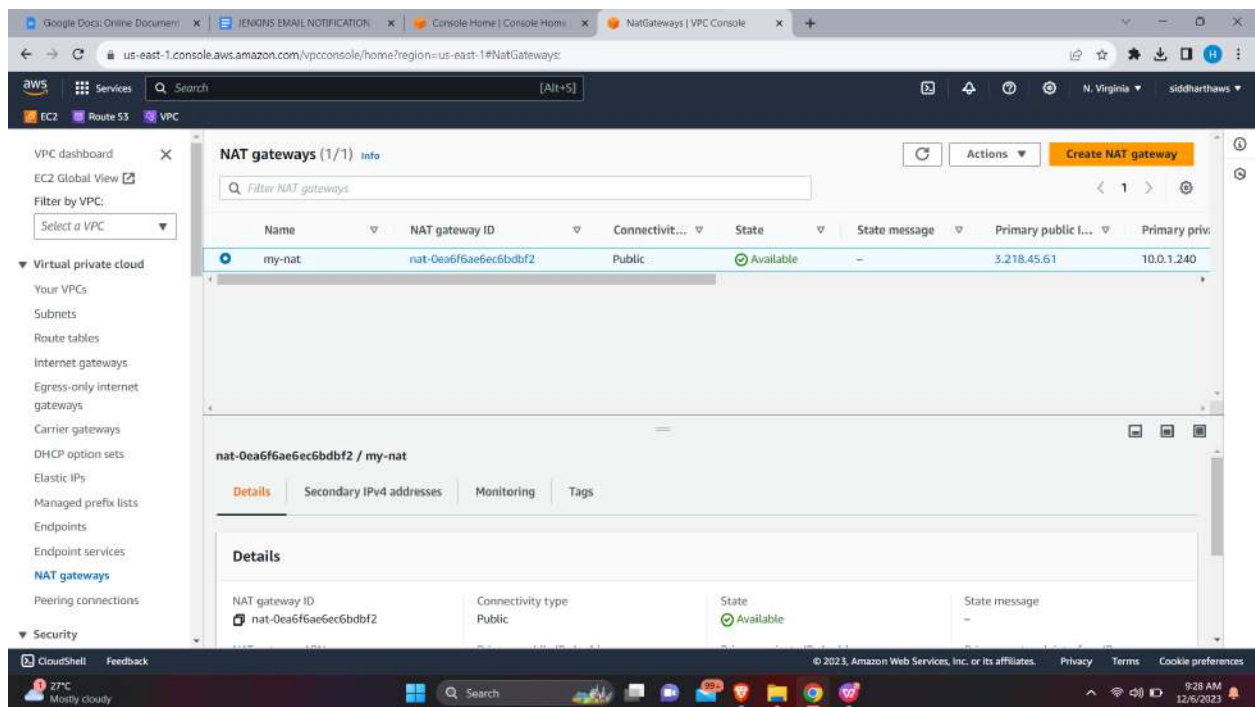
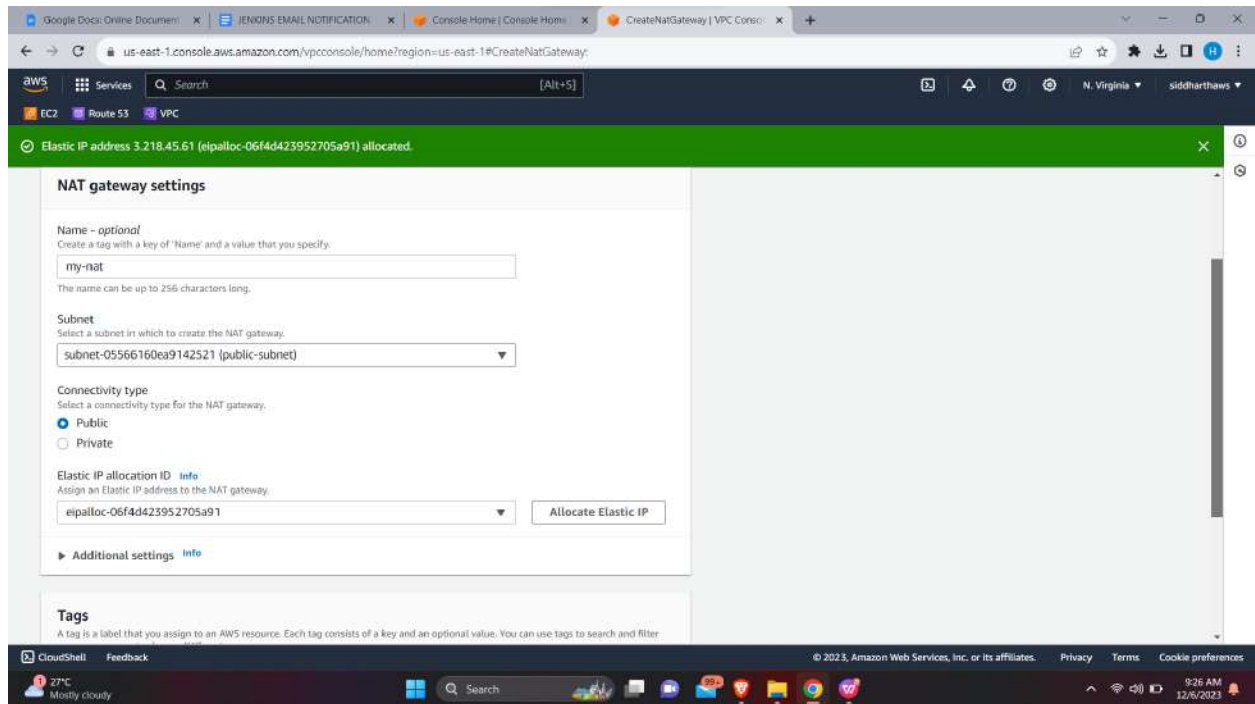
Choose public-subnet - Save association.



Select private route table - Action - edit subnet Association.
Choose private-subnet - Save association.

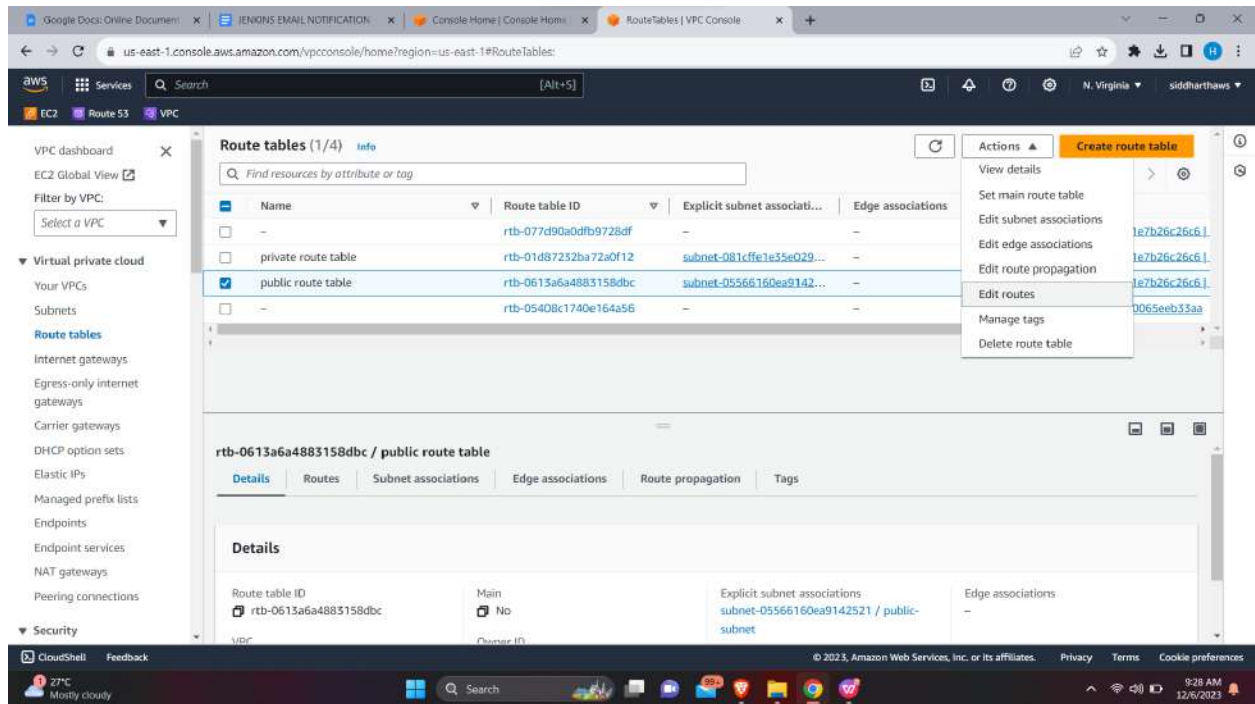


In NAT gateway - create NAT gateway - Set a name (my-nat) - Subnet choose (public-subnet)
- Allocate Elastic IP - create NAT gateway.

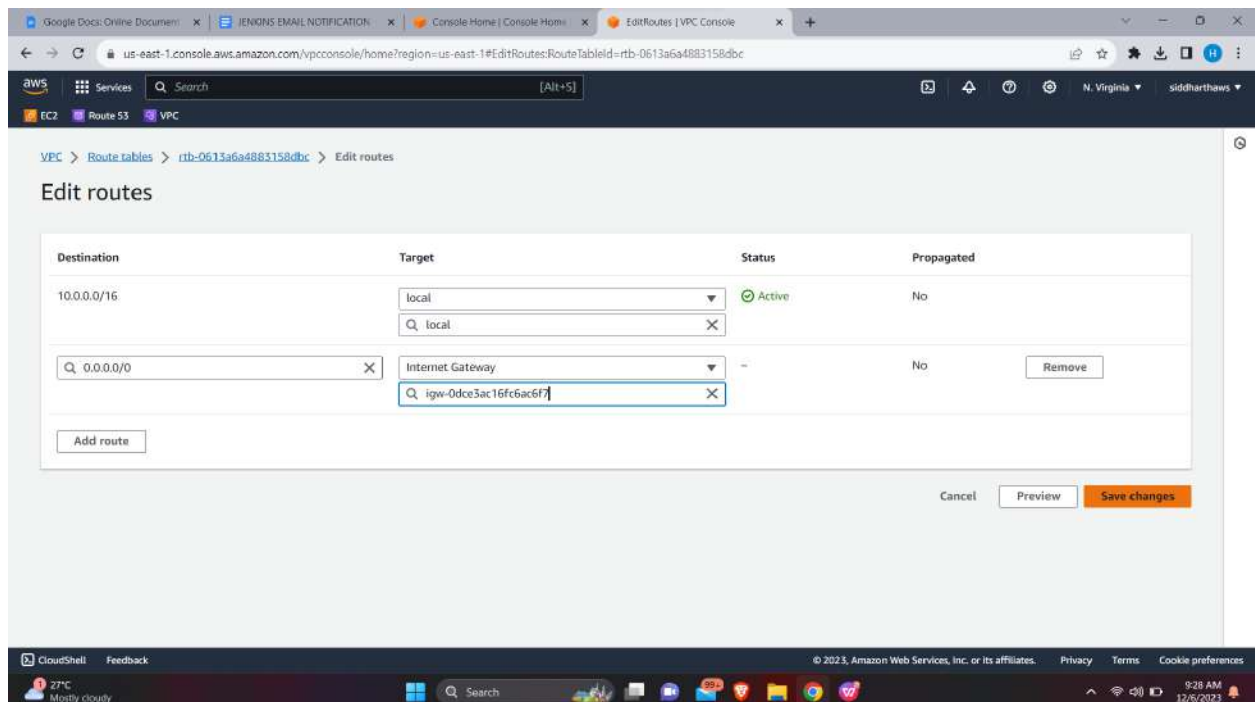


Successfully created NAT gateway.

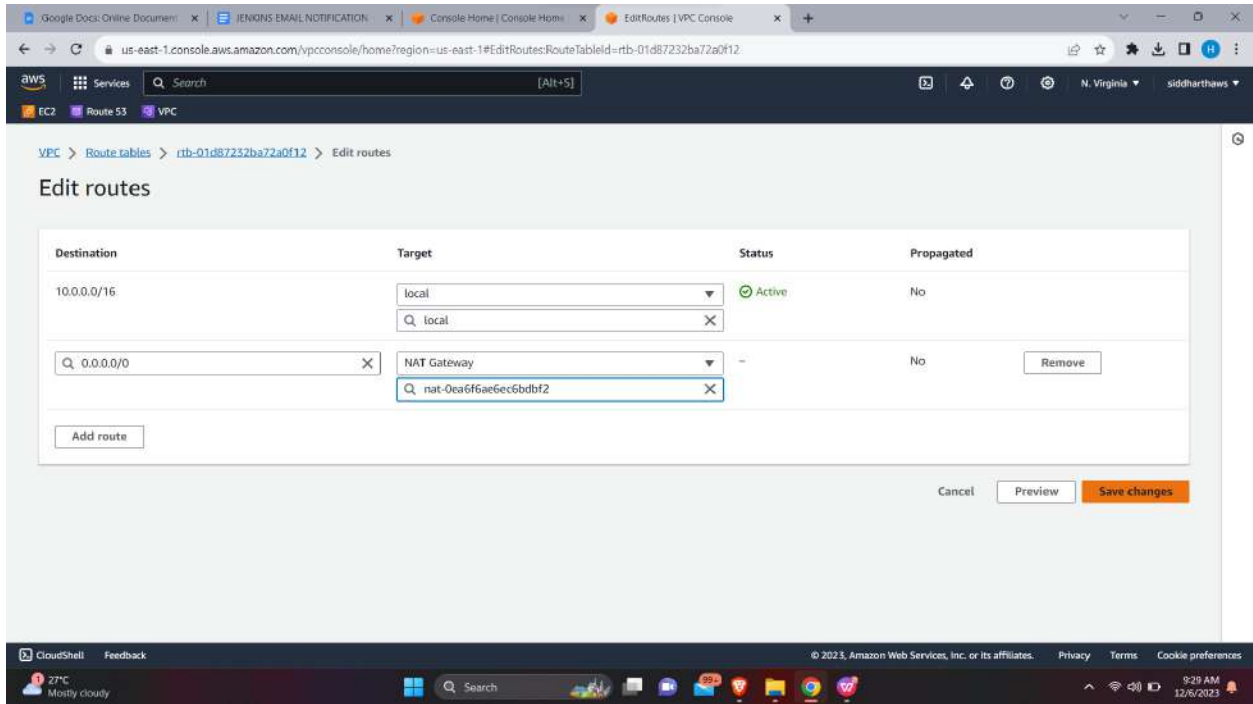
Create Routes - select public route table - Actions - edit routes



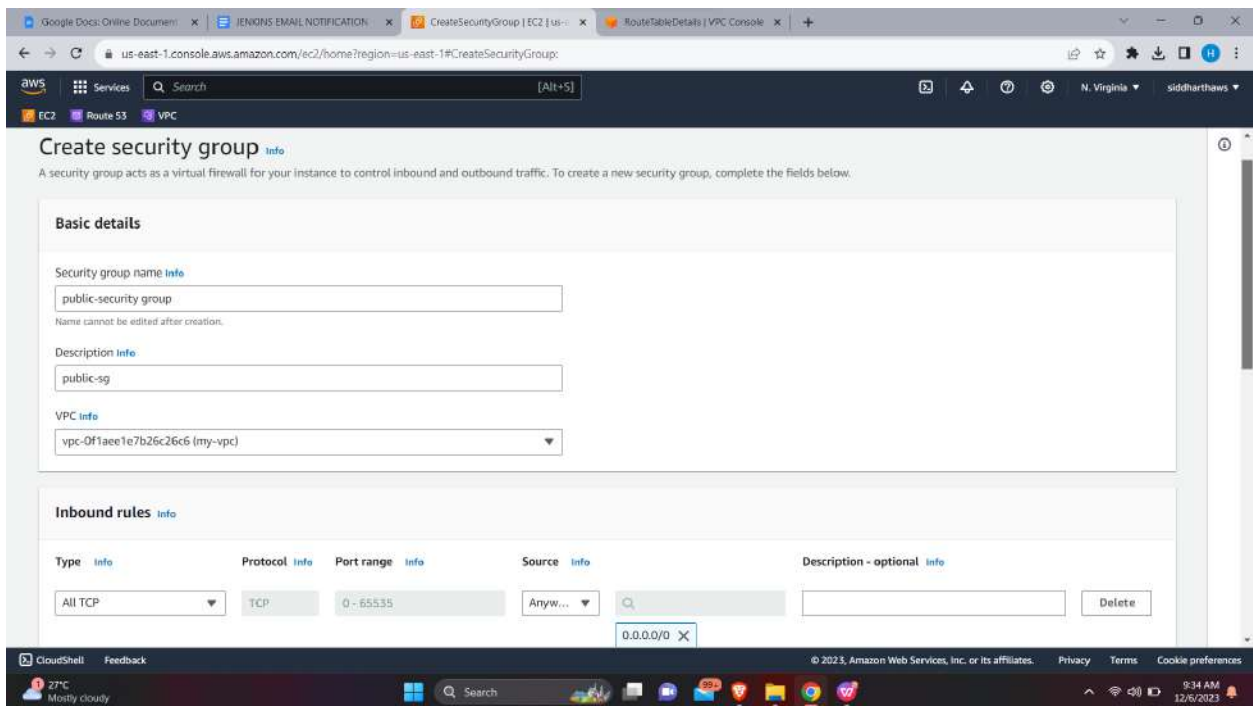
Destination (0.0.0.0/0) open IP - Target - choose internet gateway(Internet Gateway) - save changes.



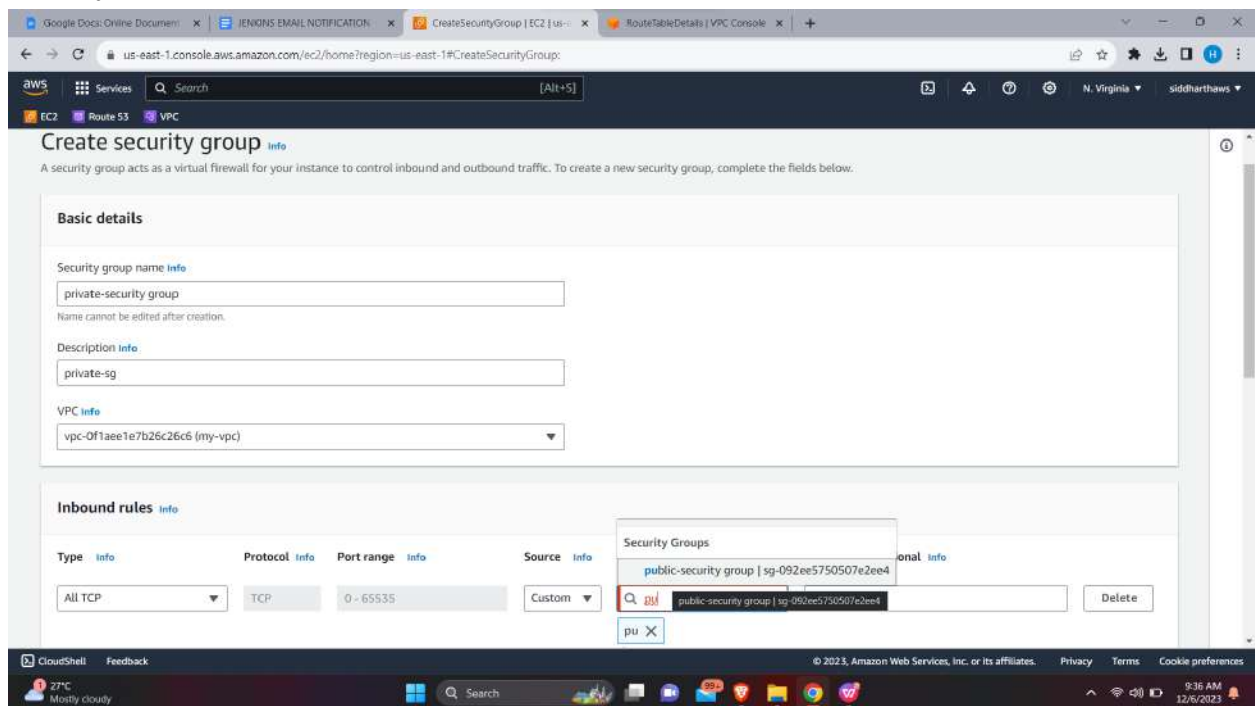
Select (private route table) - Action - edit routes - Destination (0.0.0.0/0) open IP - Target - choose NAT gateway (my-nat) - save changes.



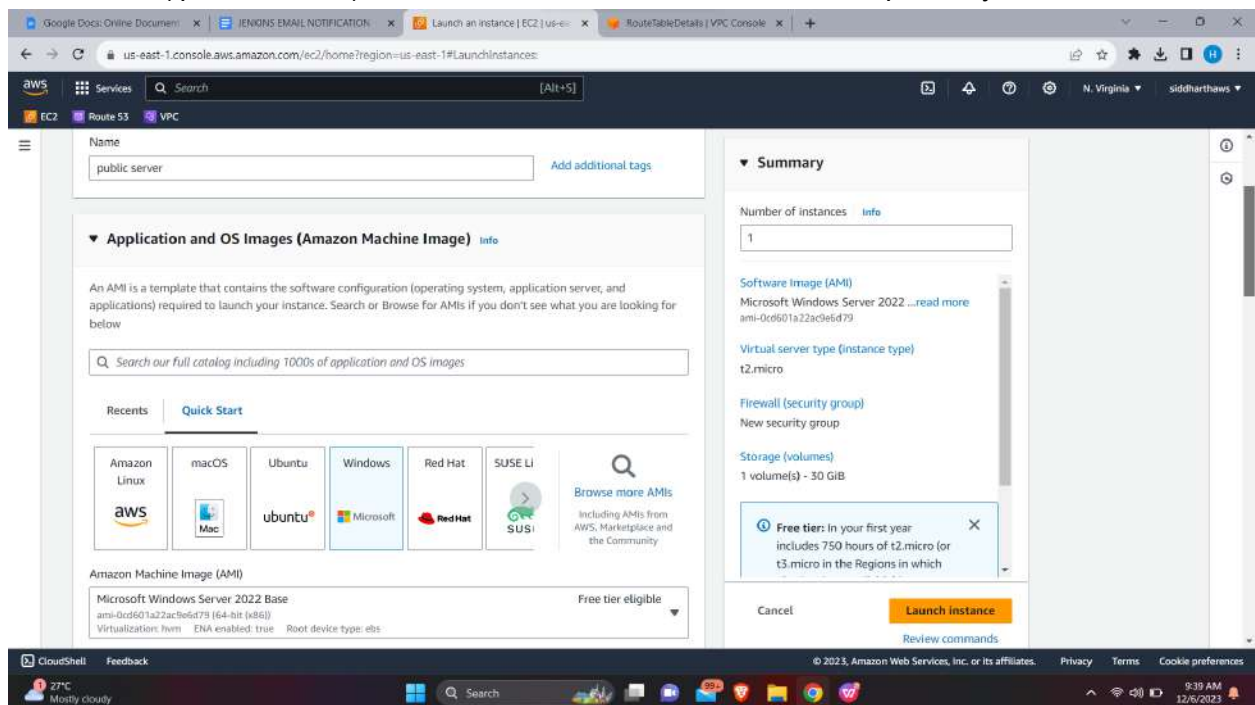
In security group - create - Set a name (public-security group) - Description (public-sg) - Remove default VPC - Add my-vpc - Inbound Rule - Type : All TCP - Source: Anywhere IPv4 - create security group.



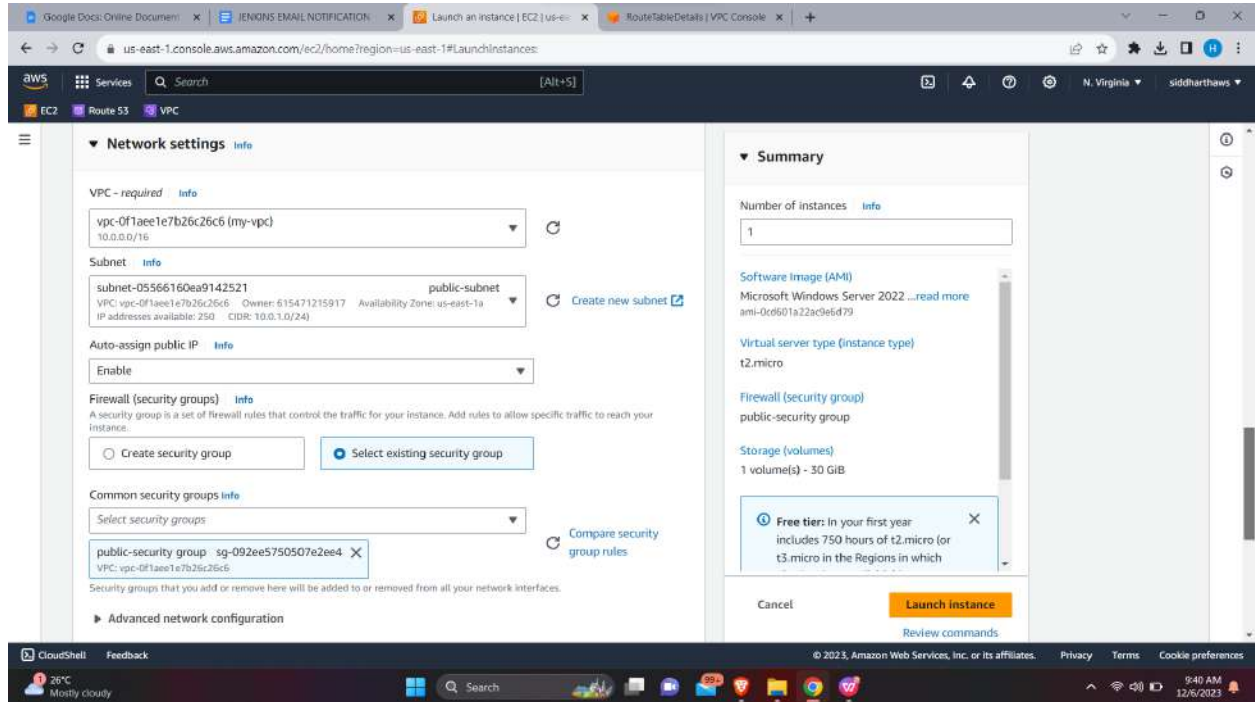
Create - Set a name (private-security group-MyVPC) - Description (private-sg) - Remove default VPC - Add my-vpc - Inbound Rule - Type :All TCP - Source:public-security group - Create Security Group



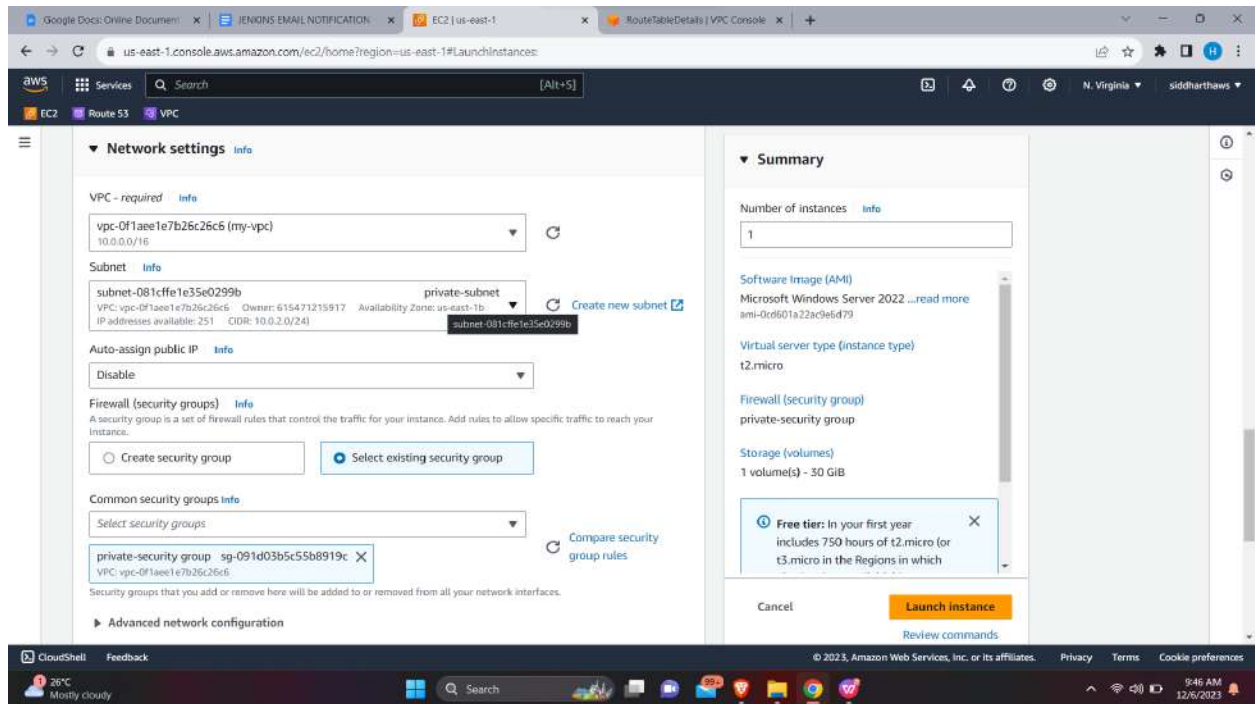
Then, In EC2 - launch 2 instances in windows server as a name of Public and Private server.
Create a Public Instance
Set a name (public Server) - choose Windows OS in AMI - Choose pem key file.



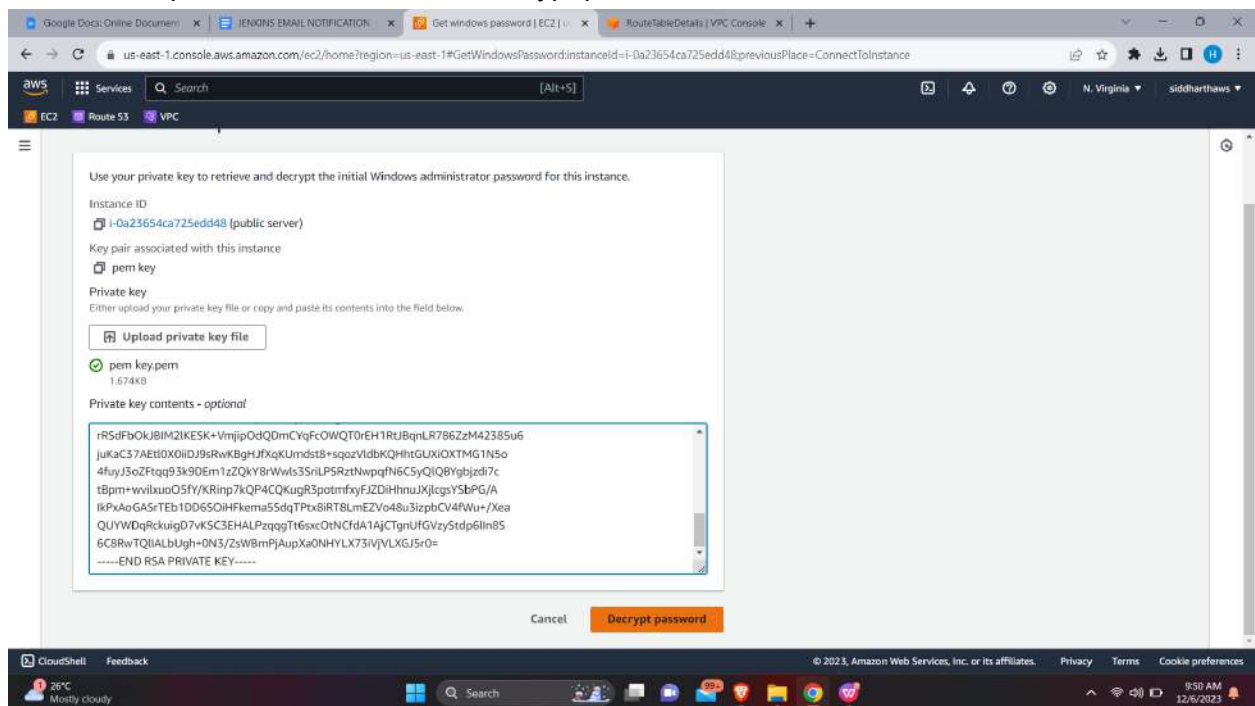
Network setting - edit - choose my-vpc - Subnet choose public-subnet -
Auto-assign publicIP (Enable) - Choose existing Security group & select the created security group (public-security group)
- Launch instance.



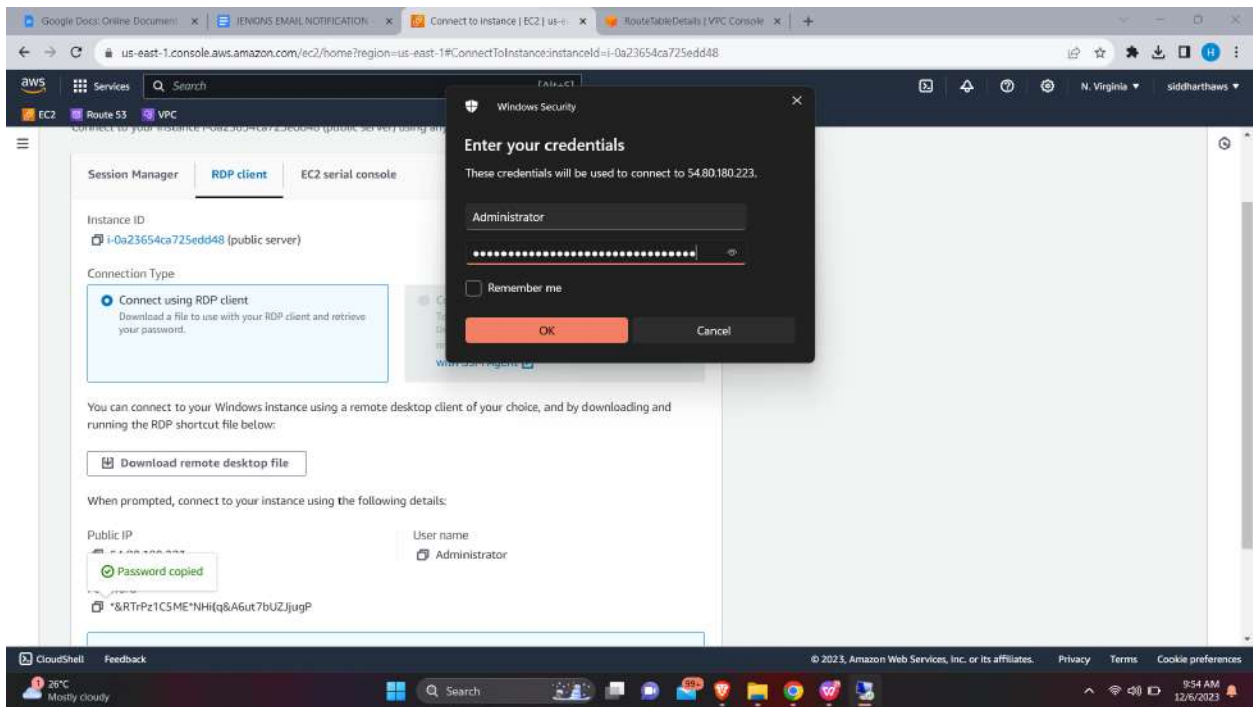
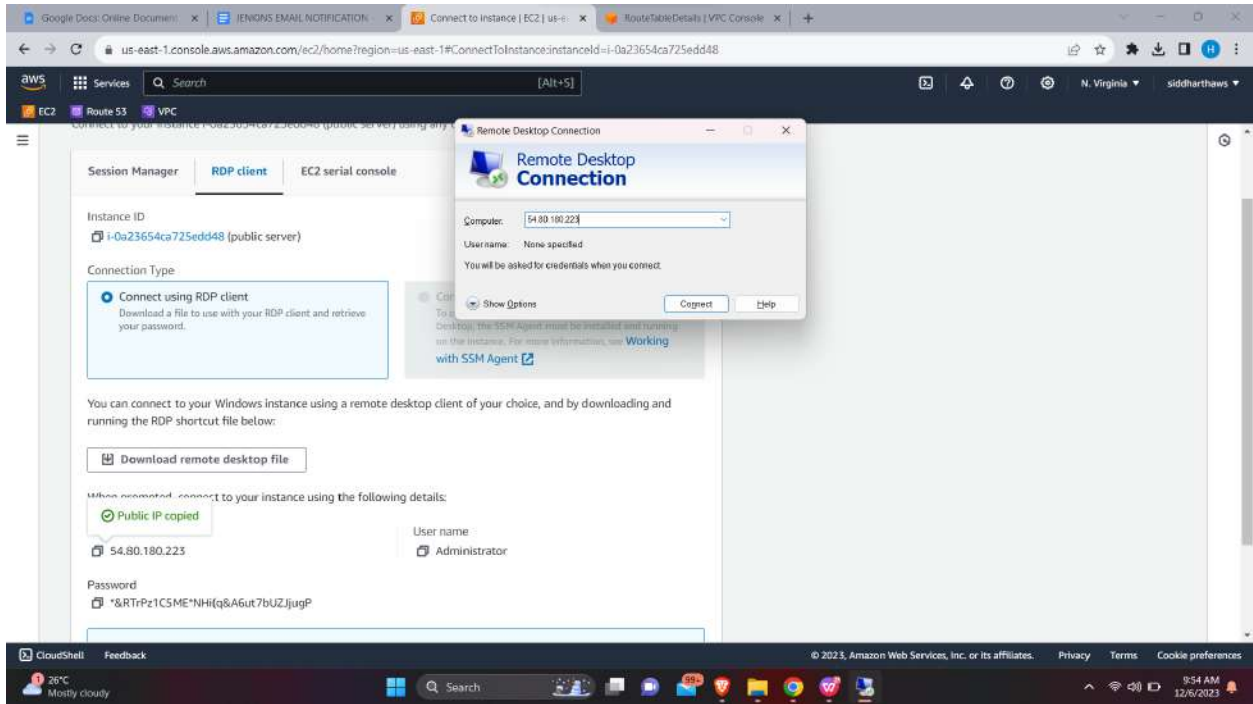
Now create a private instance.
Set a name (private server) - Choose windows OS in AMI - Choose pem key file - Network setting (edit) -VPC (my-vpc)- Subnet choose (private-subnet) - Auto-assign publicIP (Disable)
- choose existing security group & select created security group (private-security group) -
Launch Instance.

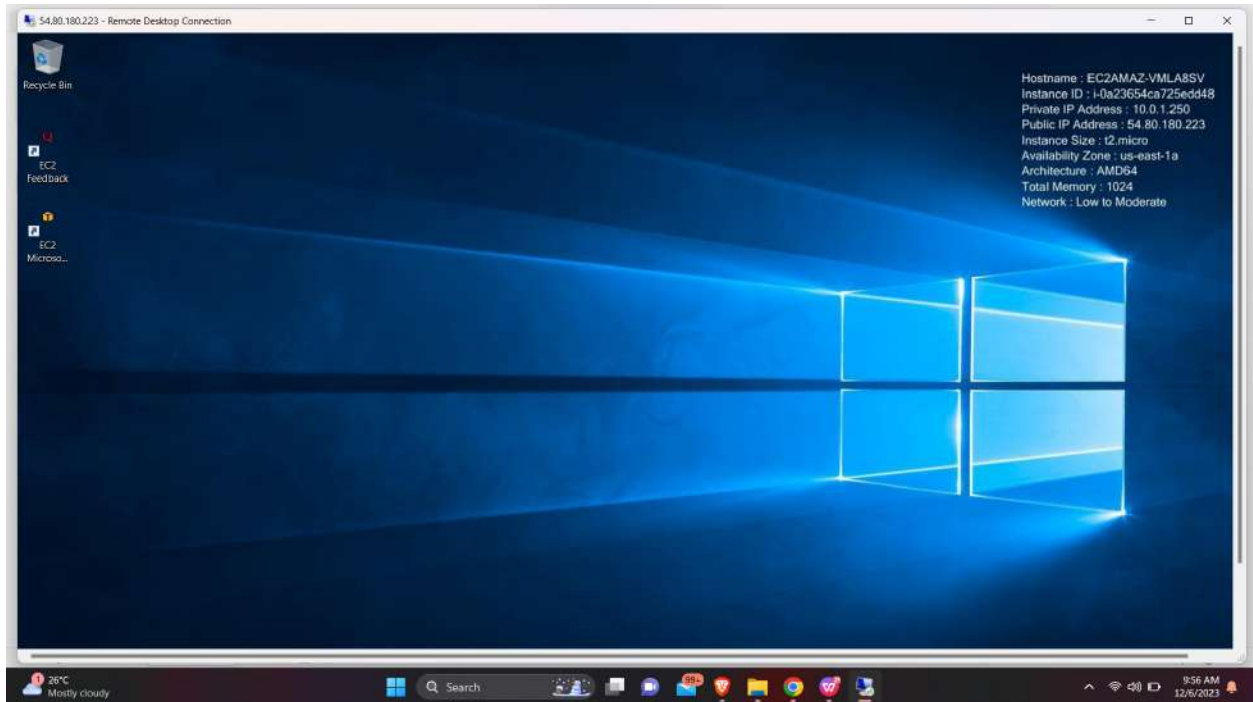


Connect the public server instance - decrypt password.



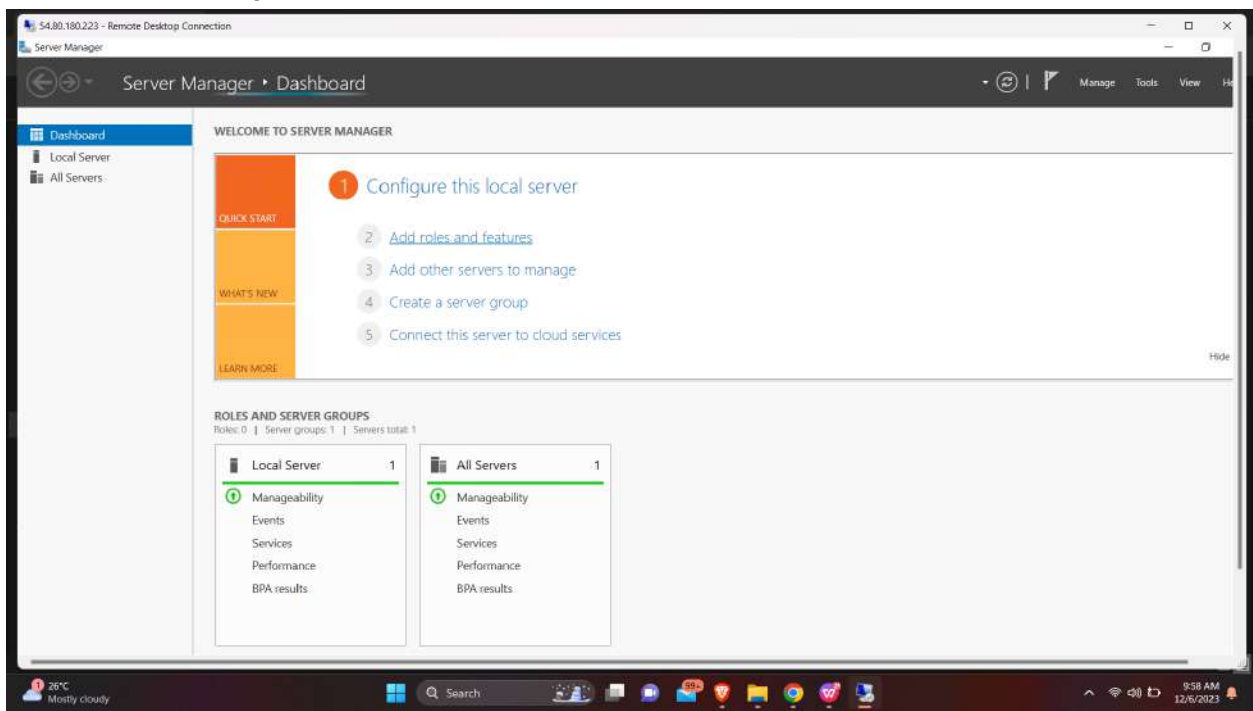
Open Remote Desktop Connection - Connect the public Windows server using Specific Credentials.



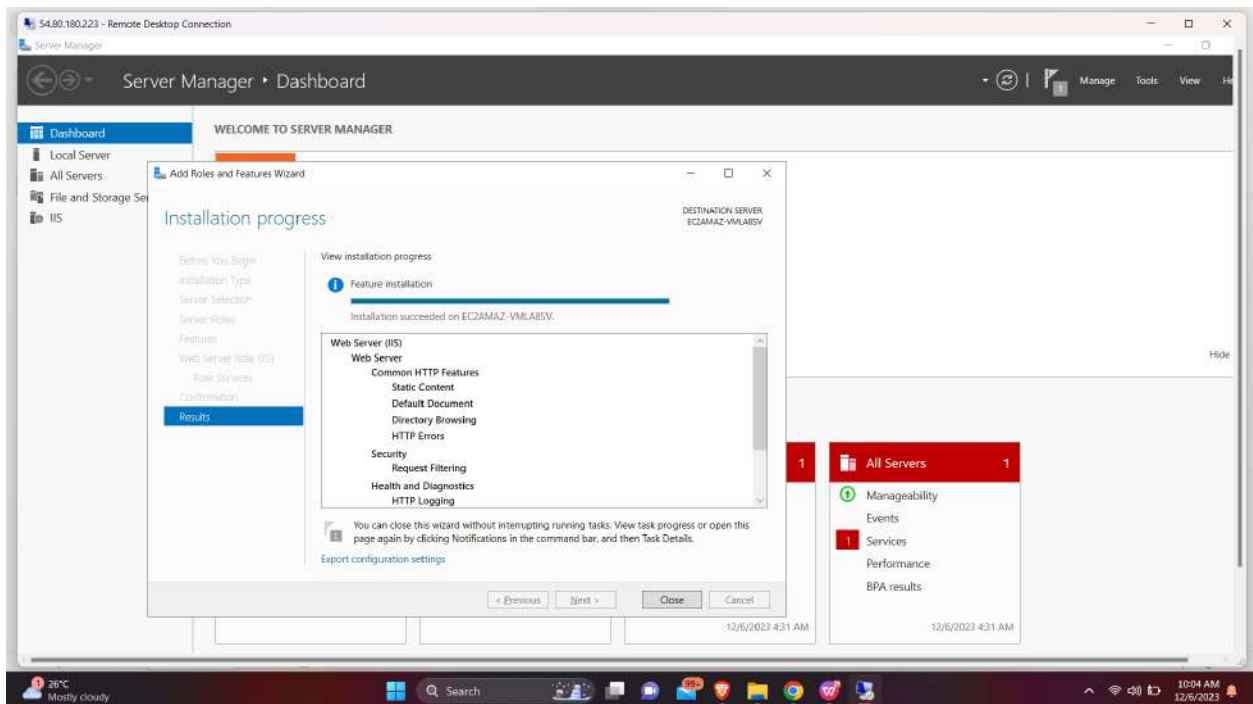
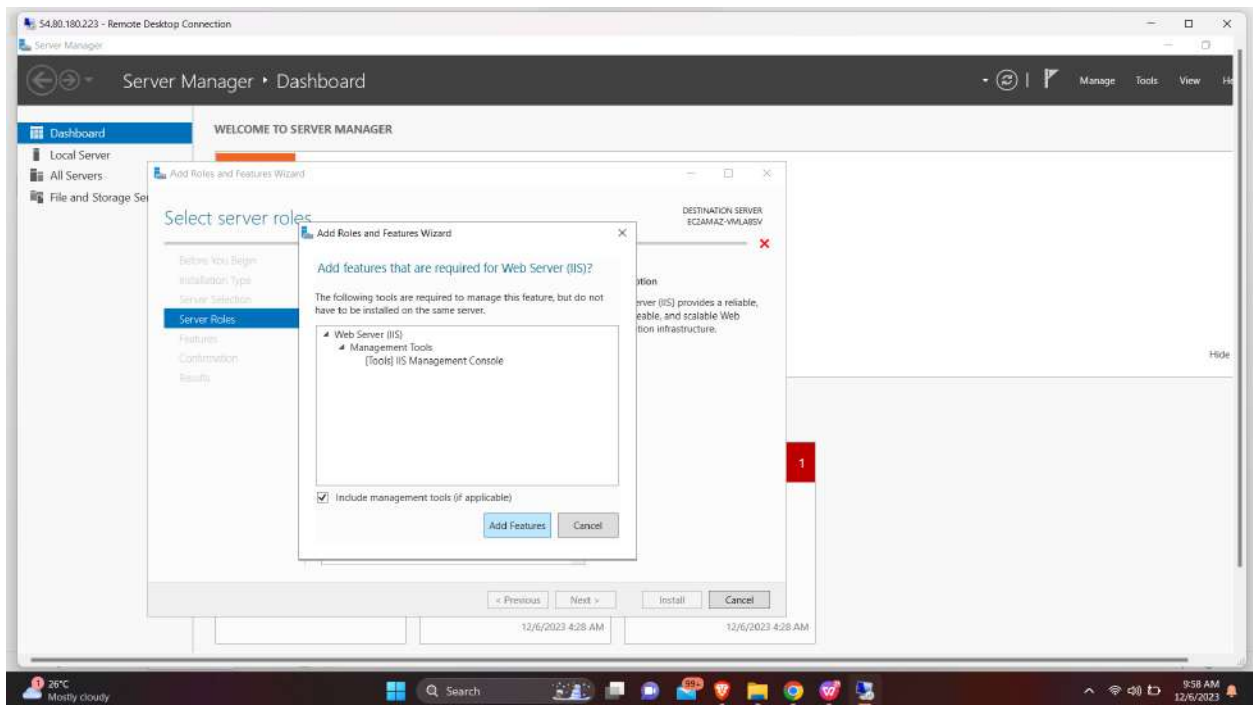


Successfully connected to the public server through RDP.

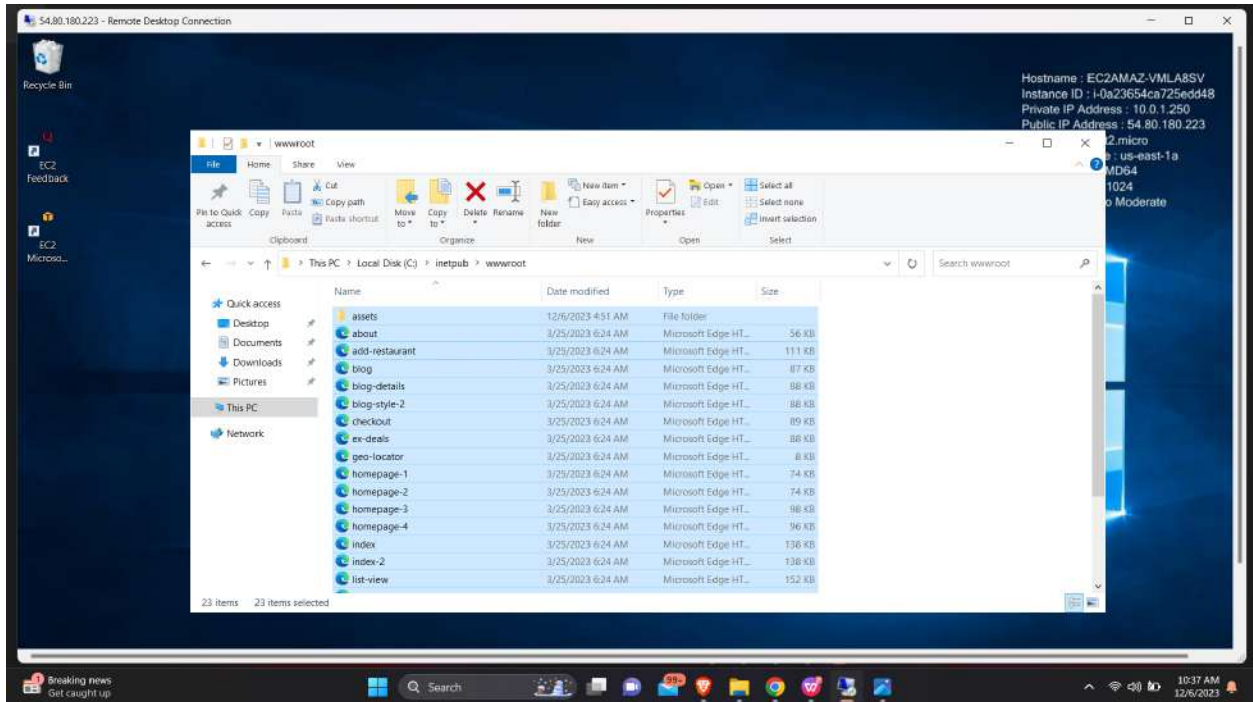
After Successfully connecting to the Public windows server in RDP.
Now, Install web server (IIS) to host a website through Public server.
In Remote Desktop Connection
Open Server manager - Add roles and features



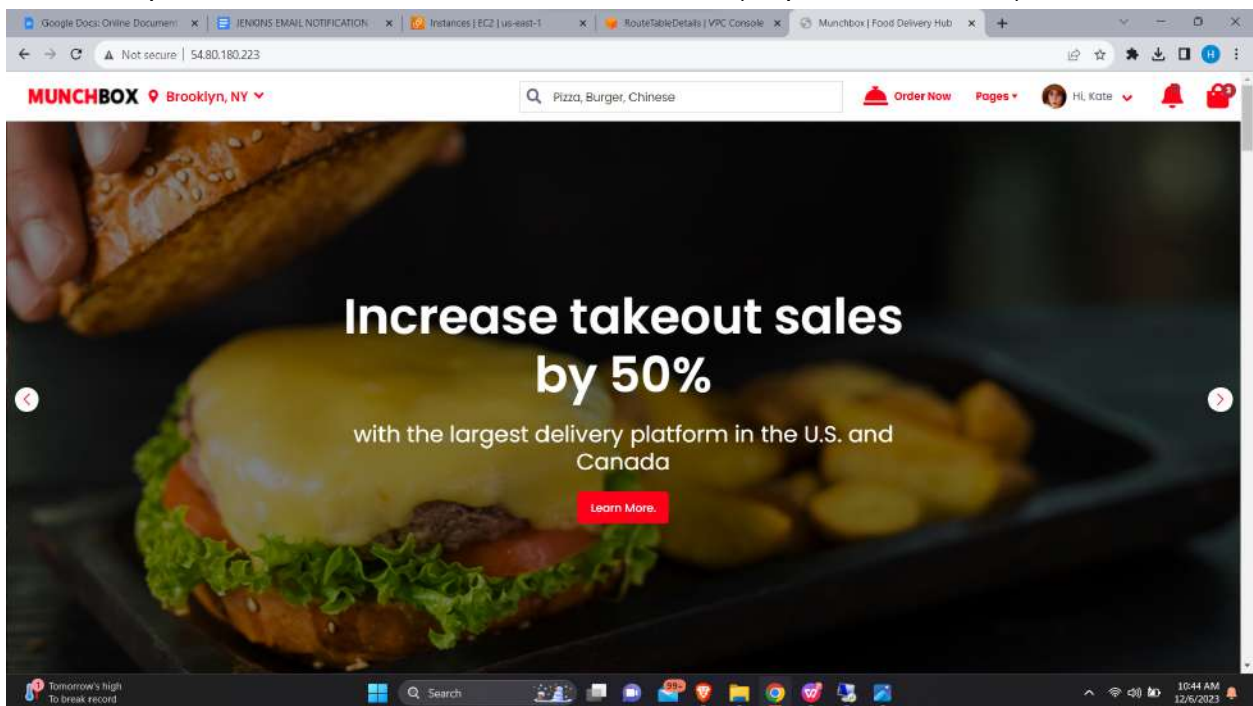
Select Web Server IIS - Install IIS



In Remote Desktop Connection, After Successfully installed IIS webserver in Public server. Open filebrowser - Localdisk C - inetpub - www.root - remove default files - paste website content files.

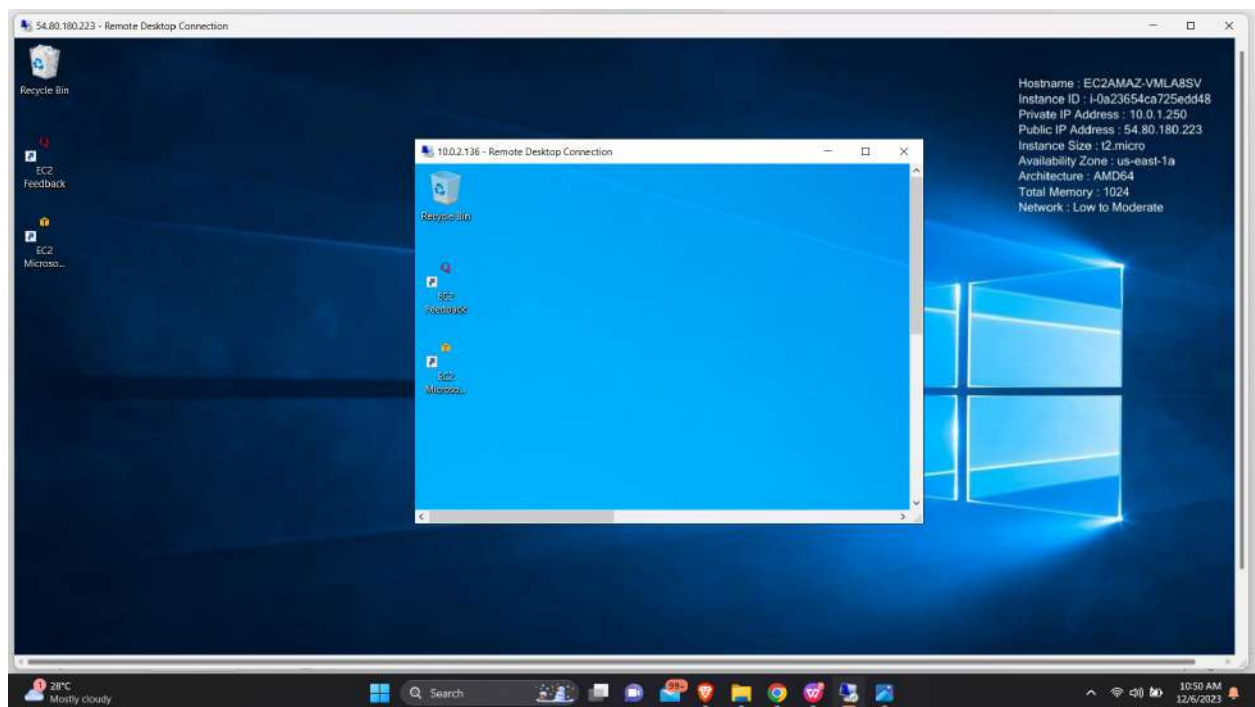
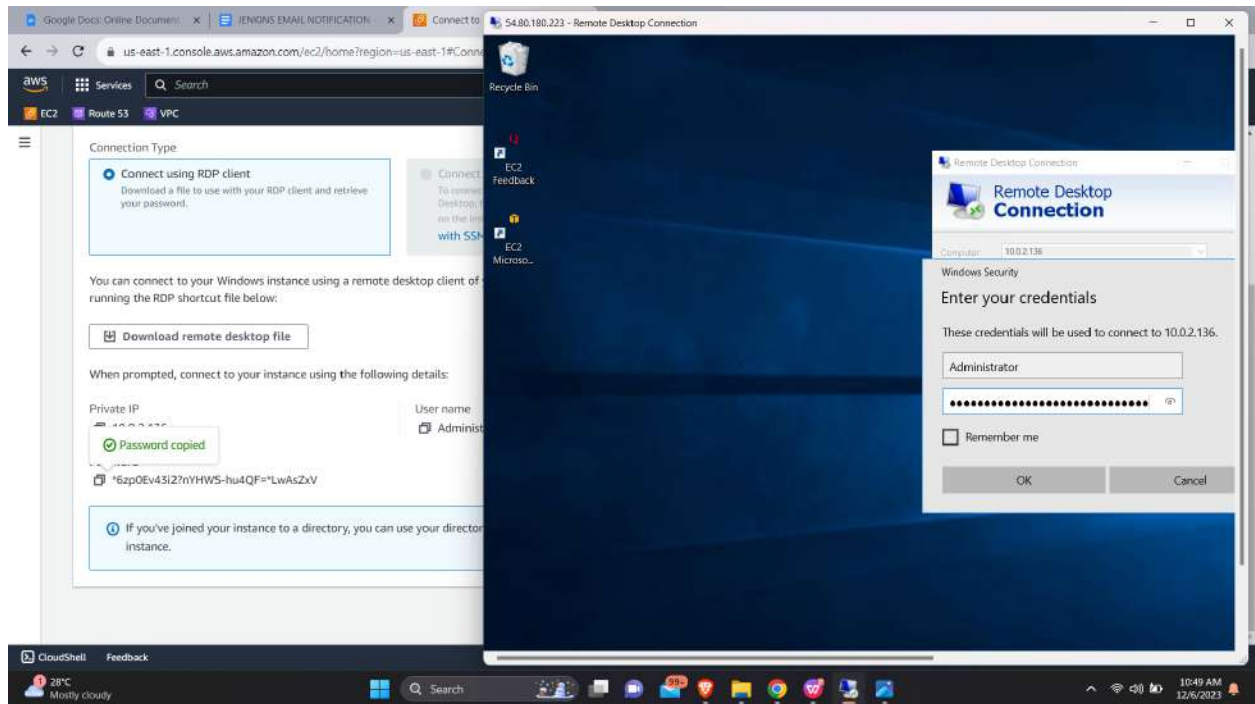


In chrome, paste Public server Instance IPv4 address as(<http://54.80.180.223>)

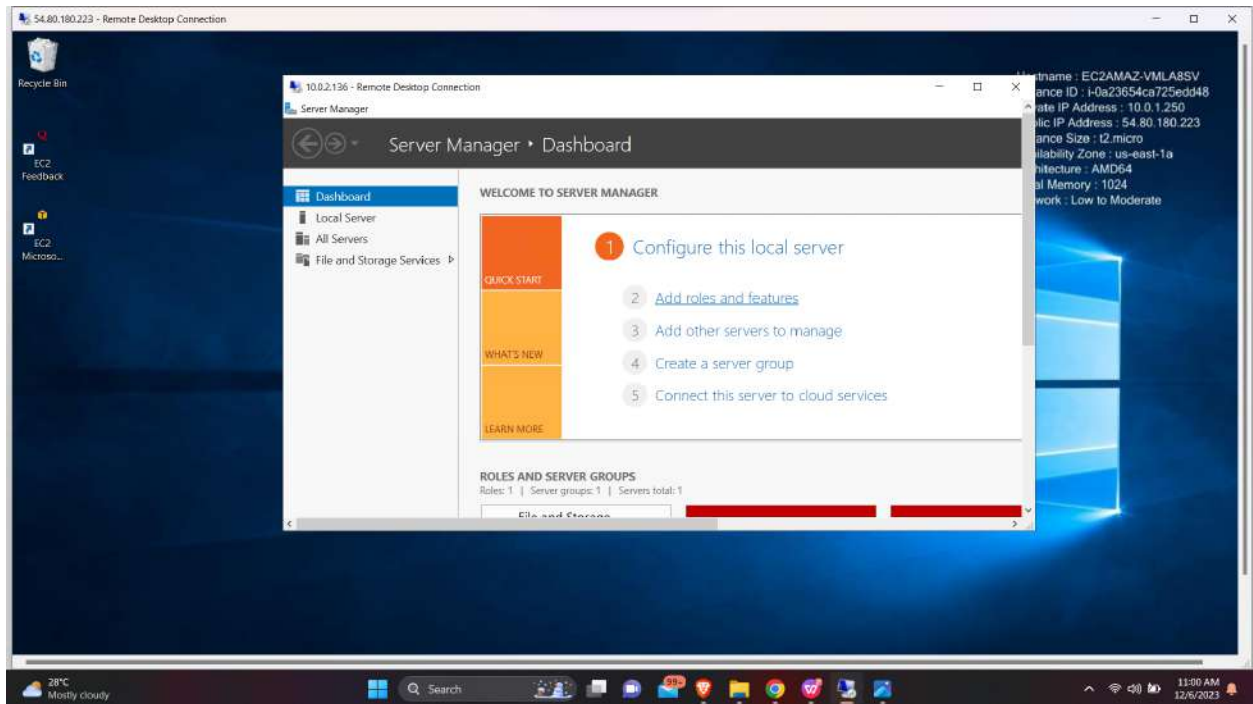


Successfully configured a VPC and hosted a website on a public server.

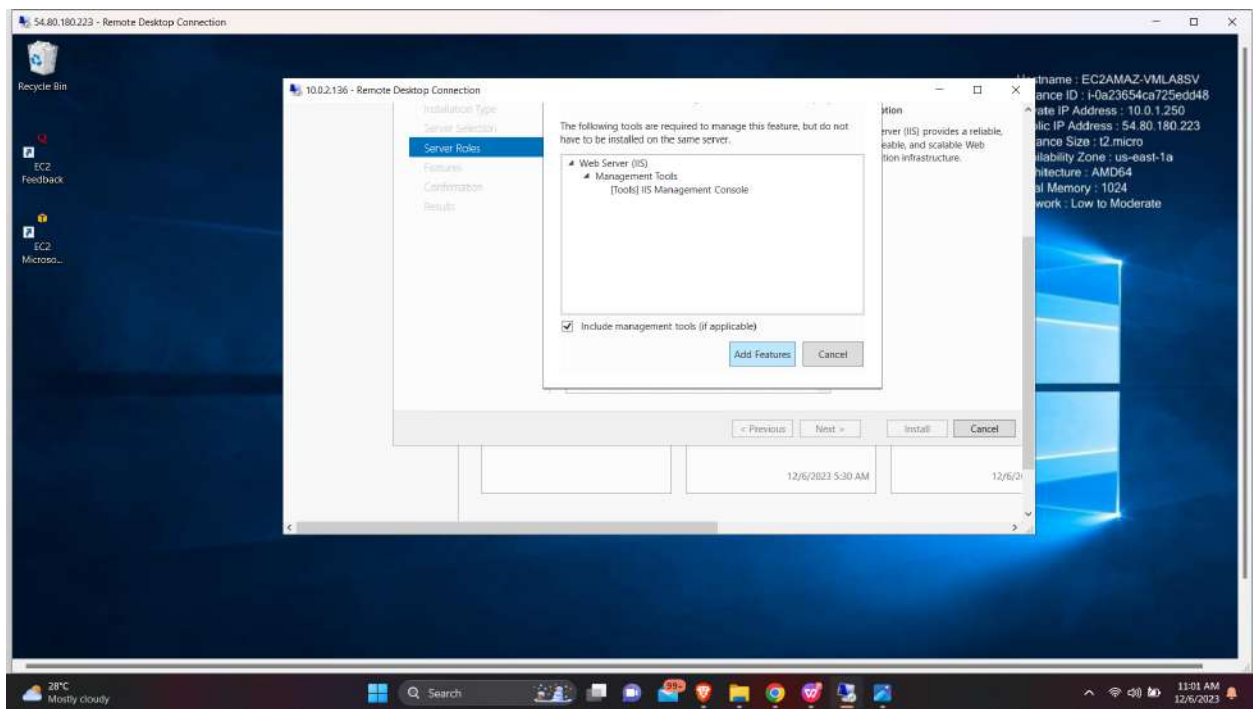
Connect the private server Instance - Decrypt Password - After login as a public server in RDP - Open Remote Desktop connection - enter the private server specific credentials.

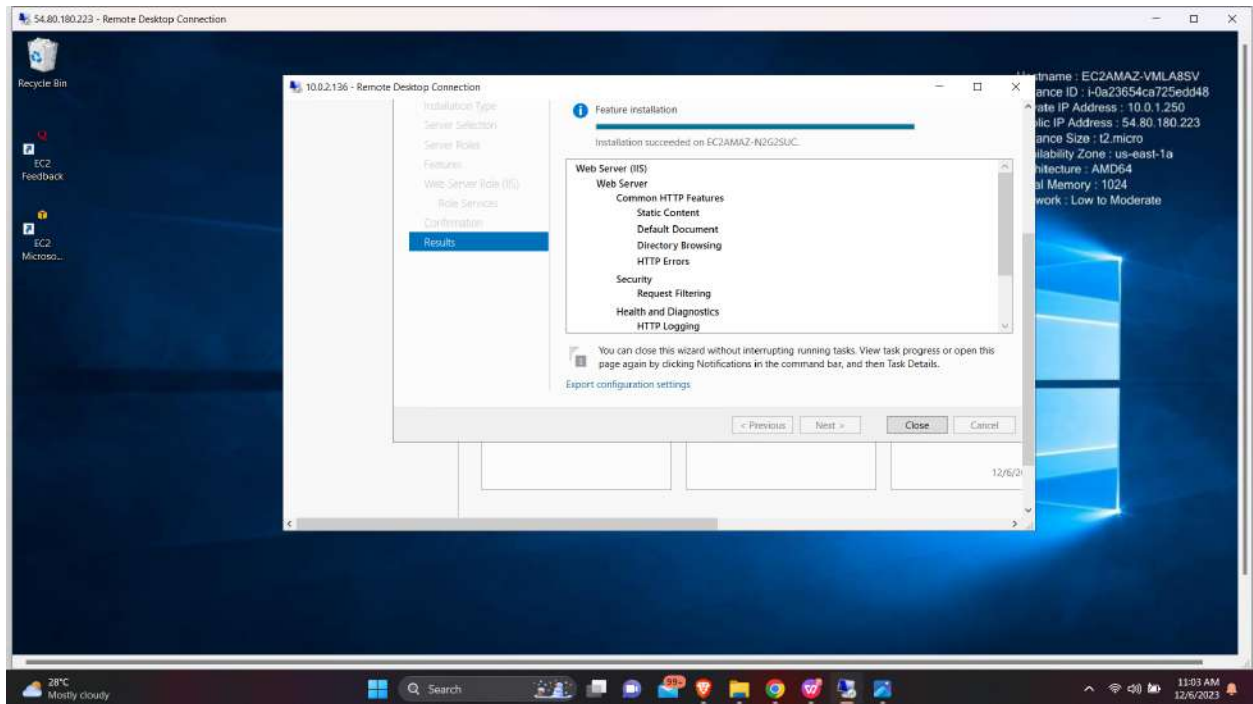


After Successfully connecting the Private windows server in Public windows Server using RDP. Now, Install webserver (IIS) to host a website through Private Server IP address. In Remote Desktop Connection, open Server manager - Add roles and features.

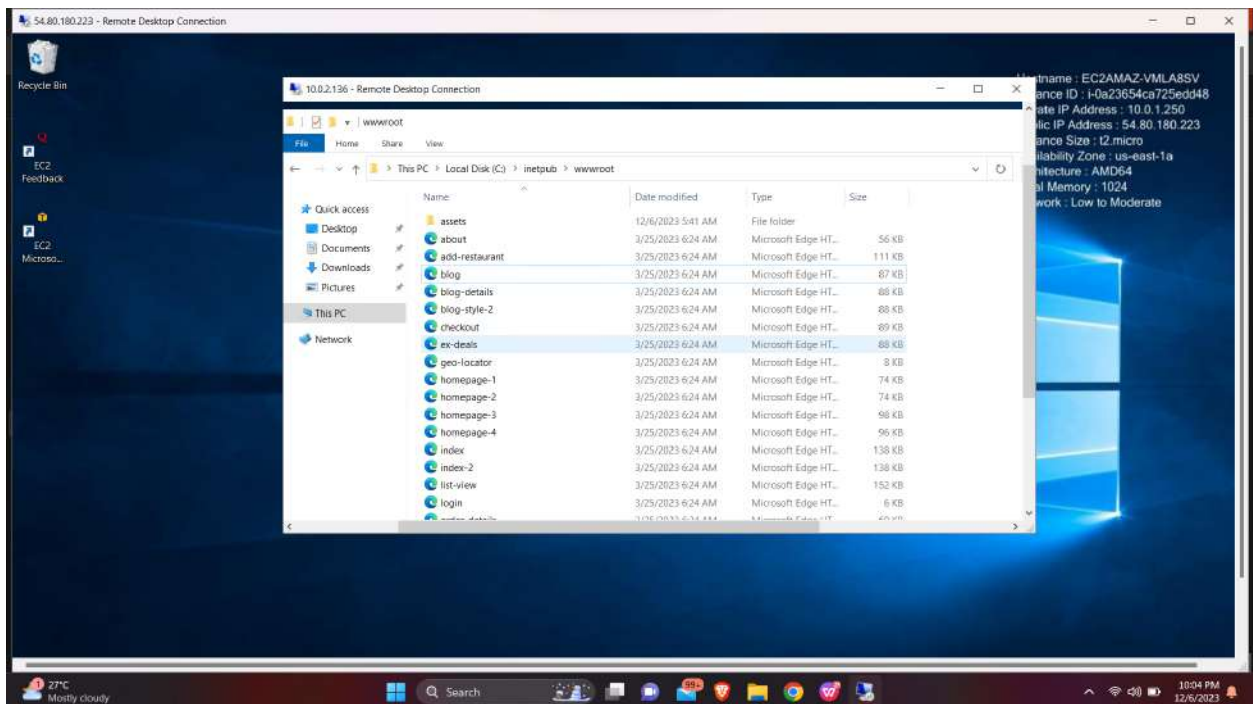


Select Web Server IIS - Install IIS.

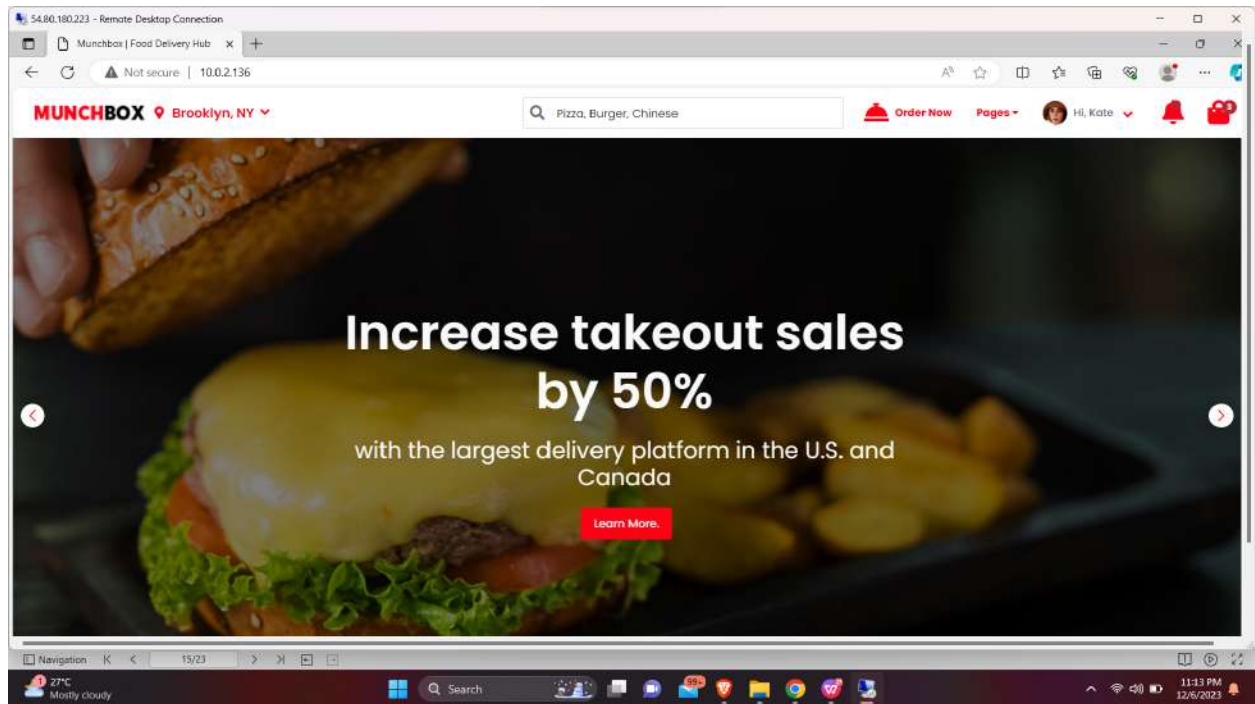




In Remote Desktop Connection, after successfully installed IIS webserver in Private server. Open filebrowser - Localdisk C - inetpub - www.root - remove default files - paste website content files.



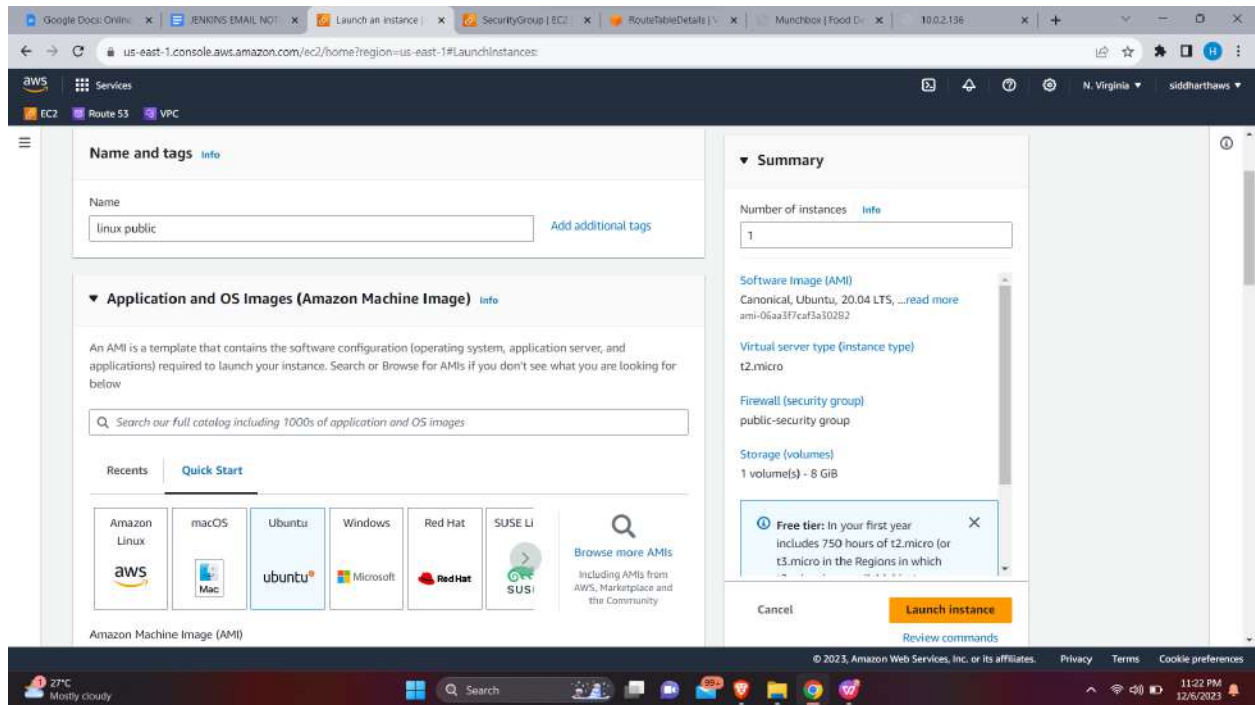
Open Chrome in Public Server.
Paste Private server Private IPv4 address as (<http://10.0.2.136>)



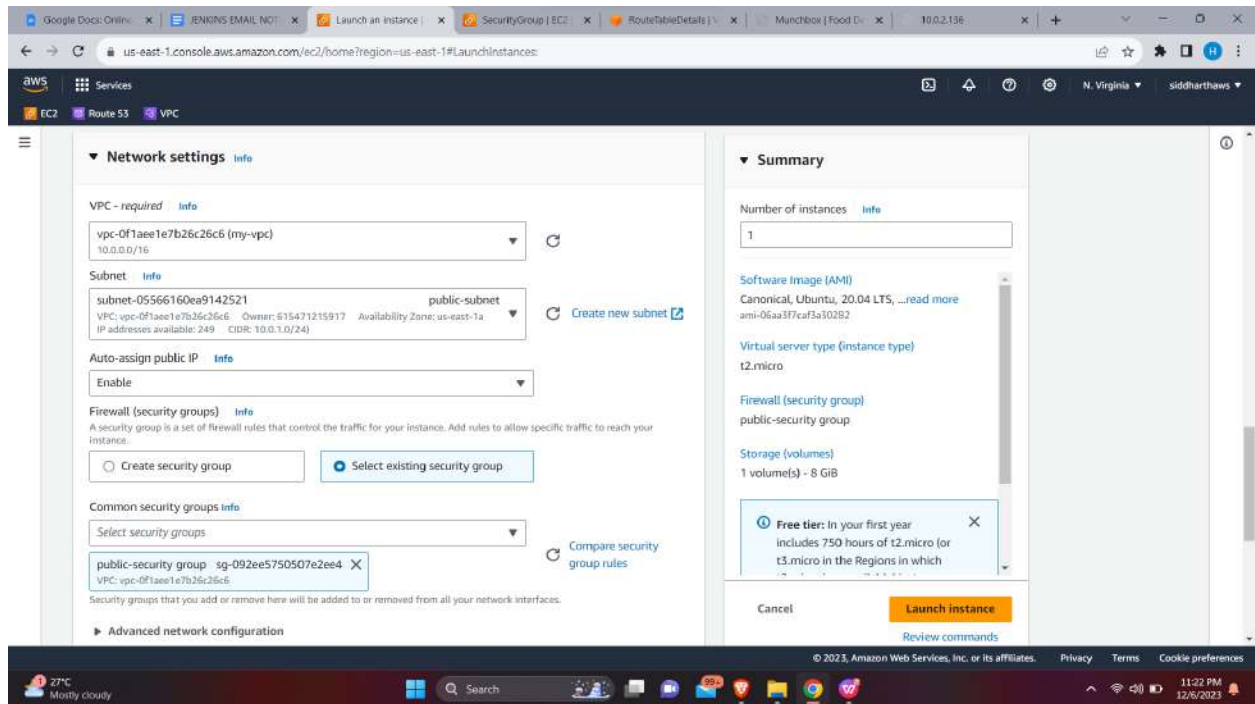
Successfully Hosted the Private Server Website through Public Server using RDP.

Steps to Host a Website through Public Linux Server in ubuntu after successfully created and configured Your VPC

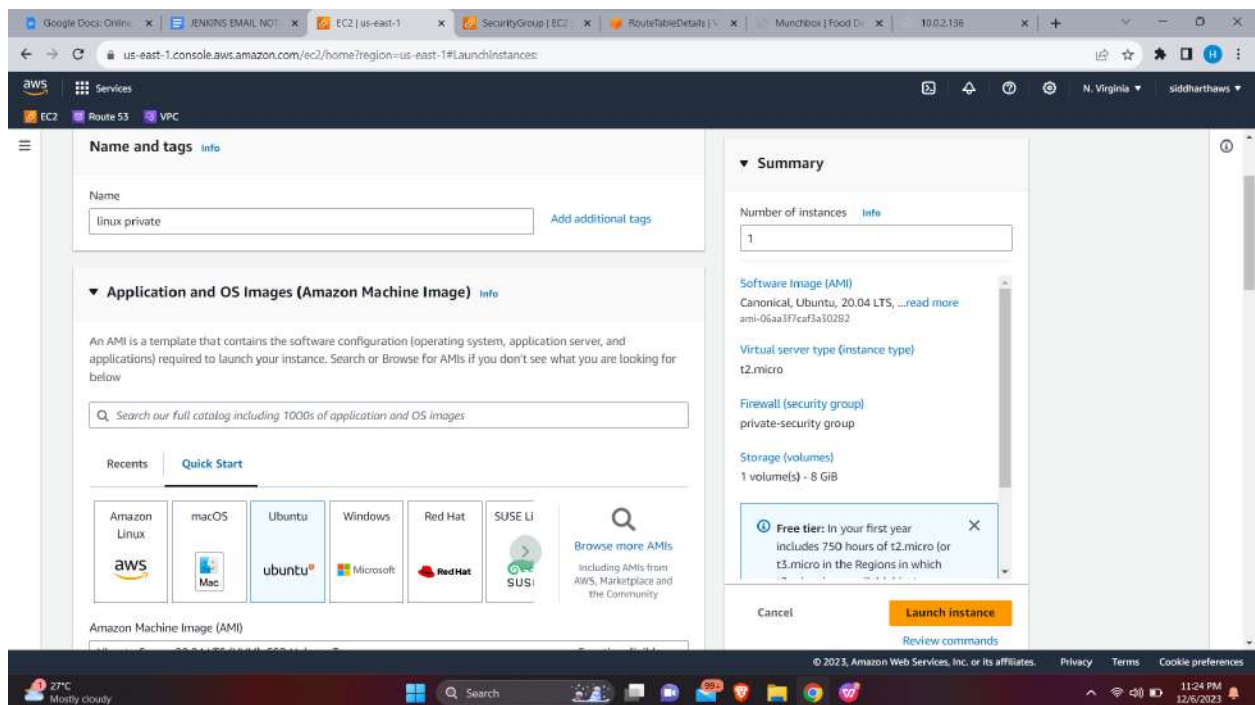
Launch instance - Set a name - choose ubuntu in AMI.



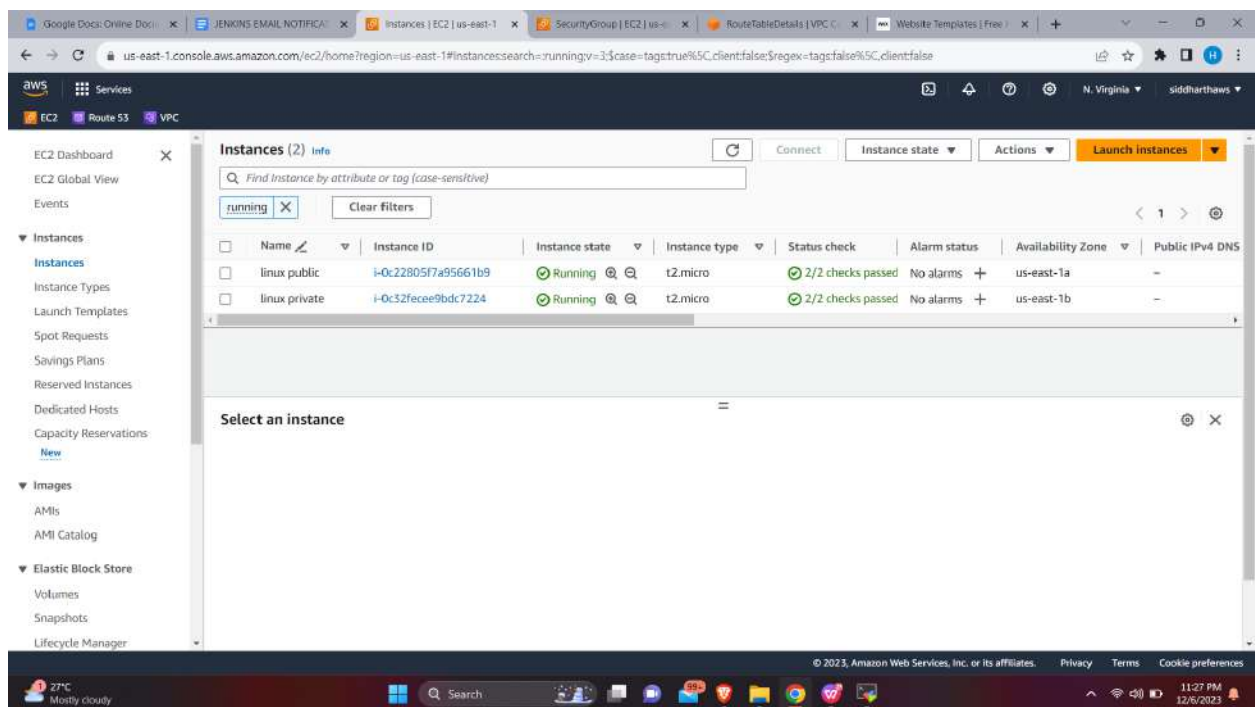
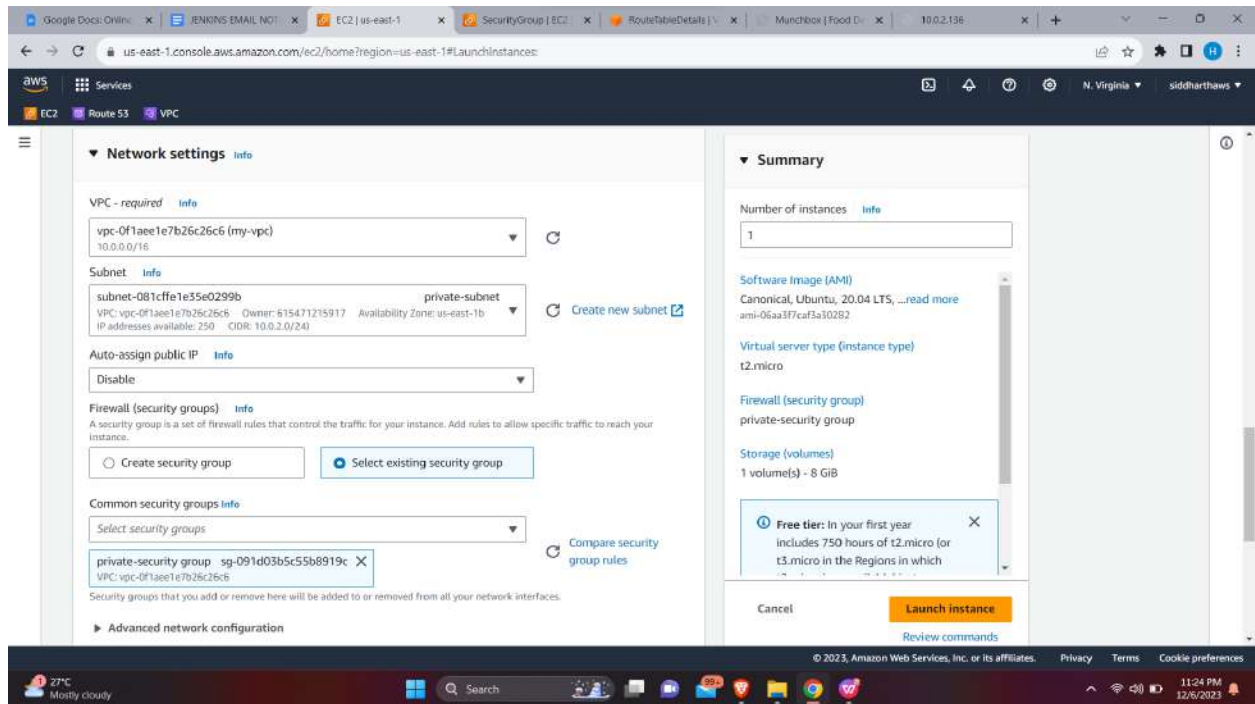
Select a pem key file - In Network Setting (edit) - choose my-vpc - Subnet (public-subnet) - Auto-Assign (Enable) - choose Existing public-security group - Launch Instance.



Launch instance for Private Linux Server - Choose ubuntu in AMI.



Select a pem key file - In network Setting (edit) - choose my-vpc - choose private-subnet - Auto-assign Public IP (Disable) - Choose Existing private-security group - Launch instance.



Connect to the public server & follow the below commands to install apache service.

```
#sudo -i
```

```
#apt update
```

```
3.854.65 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Quick connect...
home/ubuntu
Name
cache
ssh
bash_logout
biodid
profile
xauthruy
Remote monitoring
Follow terminal folder
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net.
Breaking news
Get caught up
11:29 PM
12/6/2023

ubuntu@ip-10-0-1-167:~$ sudo -i
root@ip-10-0-1-167:~# apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:3 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 Packages [8628 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe Translation-en [5124 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 c-n-f Metadata [265 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [144 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse Translation-en [104 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 c-n-f Metadata [9136 B]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [2994 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metadata [17.2 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [2528 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted Translation-en [353 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 c-n-f Metadata [552 B]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [1139 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe Translation-en [273 kB]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 c-n-f Metadata [25.7 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [25.8 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse Translation-en [7484 B]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 c-n-f Metadata [620 B]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [45.7 kB]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main Translation-en [16.3 kB]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 c-n-f Metadata [1420 B]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/restricted amd64 c-n-f Metadata [116 B]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/restricted amd64 Packages [25.0 kB]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe Translation-en [16.3 kB]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Metadata [889 B]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:29 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [2604 kB]
Get:30 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [402 kB]
Get:31 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [13.2 kB]
Get:32 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [2411 kB]
Get:33 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-en [336 kB]
Get:34 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 c-n-f Metadata [552 B]
Get:35 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [914 kB]
Get:36 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en [192 kB]
Get:37 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [19.2 kB]
Get:38 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [23.6 kB]
```

#apt install apache2

```
3.854.65 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Quick connect...
home/ubuntu
Name
cache
ssh
bash_logout
biodid
profile
xauthruy
Remote monitoring
Follow terminal folder
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net.
Breaking news
Get caught up
11:31 PM
12/6/2023

root@ip-10-0-1-167:~# apt install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libjansson4 liblua5.2-0 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser openssl-blacklist
The following NEW packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3 libaprutil1-ldap libjansson4 liblua5.2-0 ssl-cert
0 upgraded, 11 newly installed, 0 to remove and 40 not upgraded.
Need to get 1872 kB of archives.
After this operation, 8118 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

Download the application website template in linux server using wget command in /var/www/html path.

#cd /var/www/html

Wget <website zipped url>


```

root@ip-10-0-1-167:~# cd /var/www/html
root@ip-10-0-1-167:/var/www/html# wget https://www.free-css.com/assets/files/free-css-templates/download/page294/troweld.zip
--2023-12-06 18:04:54-- https://www.free-css.com/assets/files/free-css-templates/download/page294/troweld.zip
Resolving www.free-css.com (www.free-css.com)... 217.160.0.242, 2081:8db:100f:f000::28f
Connecting to www.free-css.com (www.free-css.com)|217.160.0.242|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1366425 (1.3M) [application/zip]
Saving to: 'troweld.zip'

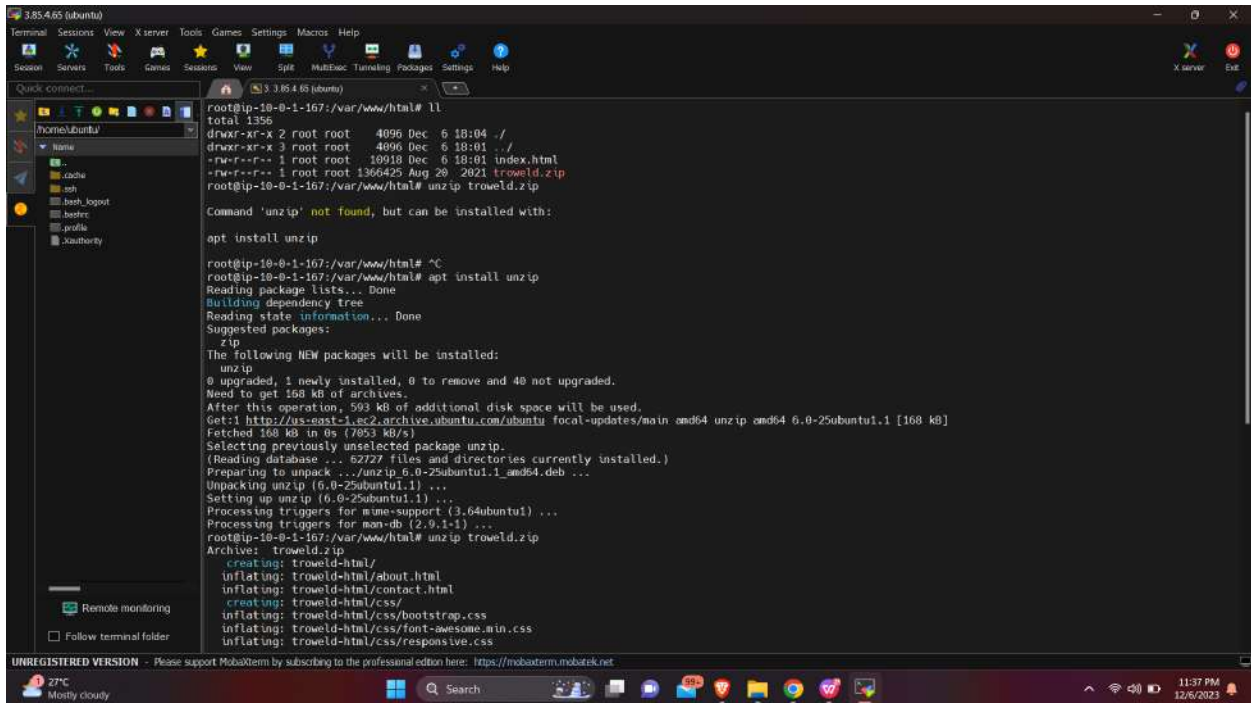
troweld.zip
100%[=====] 1.30M 1.80MB/s in 0.7s

2023-12-06 18:04:56 (1.80 MB/s) - 'troweld.zip' saved [1366425/1366425]

```

#apt install unzip

#unzip <website zipped filename>



```

root@ip-10-0-1-167:/var/www/html# ll
total 1356
drwxr-xr-x 2 root root 4096 Dec 6 18:04 ./
drwxr-xr-x 3 root root 4096 Dec 6 18:01 ../
-rw-r--r-- 1 root root 10918 Dec 6 18:01 index.html
-rw-r--r-- 1 root root 1366425 Aug 20 2021 troweld.zip
root@ip-10-0-1-167:/var/www/html# unzip troweld.zip

Command 'unzip' not found, but can be installed with:

apt install unzip

root@ip-10-0-1-167:/var/www/html# ^C
root@ip-10-0-1-167:/var/www/html# apt install unzip
Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
  zip
The following NEW packages will be installed:
  unzip
0 upgraded, 1 newly installed, 0 to remove and 40 not upgraded.
Need to get 168 kB of archives.
After this operation, 593 kB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 unzip amd64 6.0-25ubuntu1.1 [168 kB]
Fetched 168 kB in 0s (7053 kB/s)
Selecting previously unselected package unzip.
(Reading database ... 62727 files and directories currently installed.)
Preparing to unpack .../unzip_6.0-25ubuntu1.1_amd64.deb ...
Unpacking unzip (6.0-25ubuntu1.1) ...
Setting up unzip (6.0-25ubuntu1.1) ...
Processing triggers for mime-support (3.6ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
root@ip-10-0-1-167:/var/www/html# unzip troweld.zip
Archive:  troweld.zip
  creating: troweld-html/
  inflating: troweld-html/about.html
  inflating: troweld-html/contact.html
  creating: troweld-html/css/
  inflating: troweld-html/css/bootstrap.css
  inflating: troweld-html/css/font-awesome.min.css
  inflating: troweld-html/css/responsive.css

```

After unzipped the website template - move all the website content inside website template dir to /var/www/html path.

#ll

#cd <website template directory name>

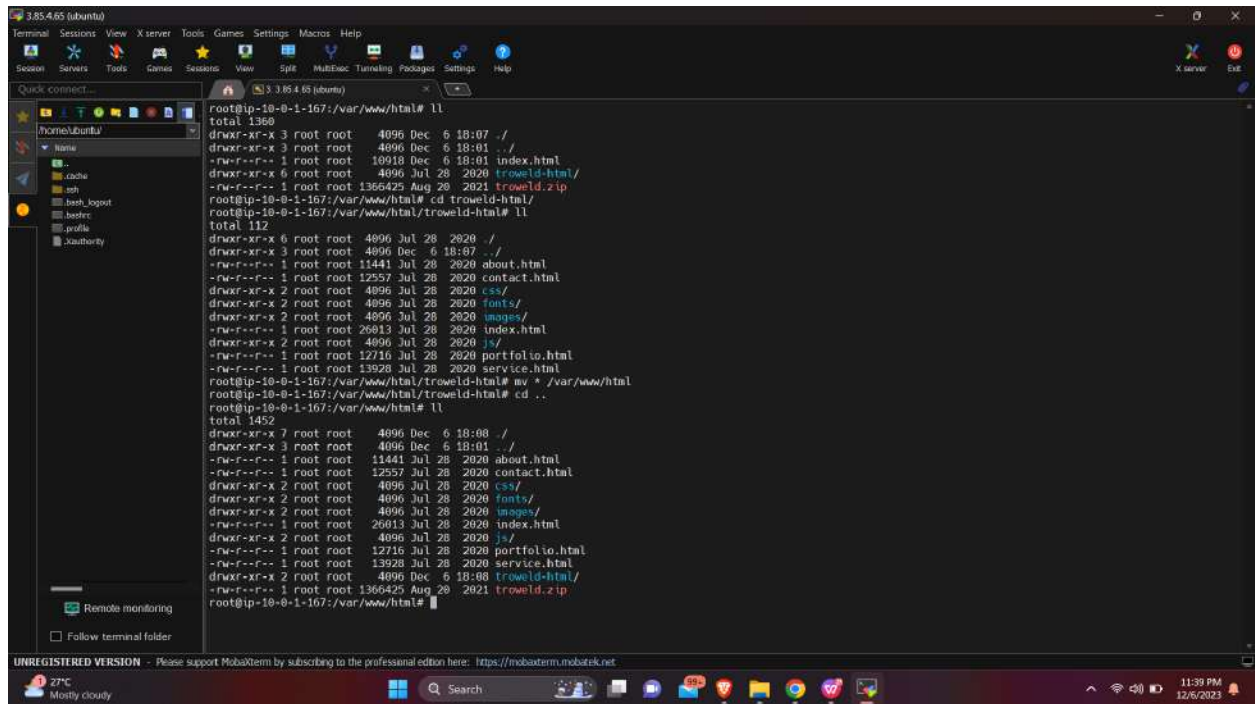
#ll

#mv * /var/www/html

#cd ..

#ll

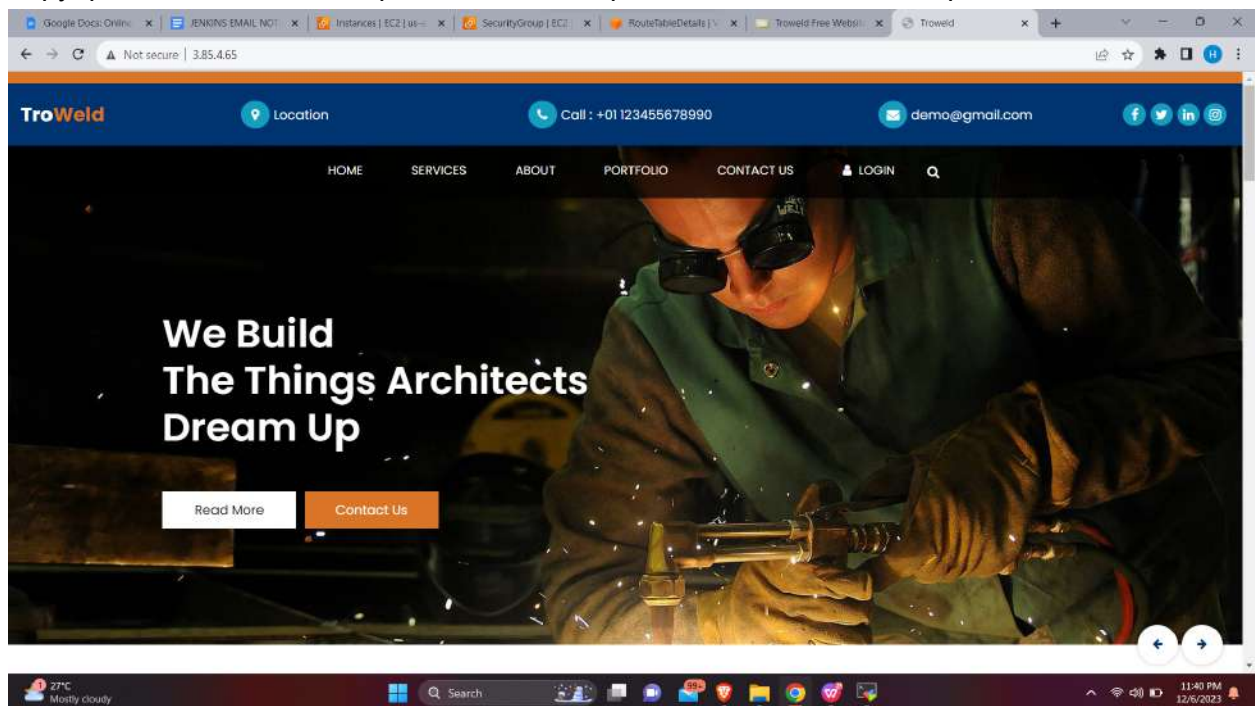
All website content inside website template dir are moved into /var/www/html directory.



The screenshot shows a terminal window with a file manager on the left. The terminal output shows the user navigating to `/var/www/html` and listing files. They then upload `troweld.zip` and `troweld.html`. After extracting the zip, they list the files again, showing `css/`, `fonts/`, `images/`, `index.html`, `js/`, `portfolio.html`, `service.html`, and `troweld.html`. Finally, they run `mv * /var/www/html` to move the files to the web root.

```
root@ip-10-0-1-167:/var/www/html# ll
total 1360
drwxr-xr-x 3 root root 4096 Dec 6 18:07 ./
drwxr-xr-x 3 root root 4096 Dec 6 18:01 ../
-rw-r--r-- 1 root root 10918 Dec 6 18:01 index.html
drwxr-xr-x 6 root root 4096 Jul 28 2020 troweld.html/
-rw-r--r-- 1 root root 1366425 Aug 20 2021 troweld.zip
root@ip-10-0-1-167:/var/www/html# cd troweld.html/
root@ip-10-0-1-167:/var/www/html/troweld.html# ll
total 112
drwxr-xr-x 6 root root 4096 Jul 28 2020 ./
drwxr-xr-x 3 root root 4096 Dec 6 18:07 ../
-rw-r--r-- 1 root root 11441 Jul 28 2020 about.html
-rw-r--r-- 1 root root 12557 Jul 28 2020 contact.html
drwxr-xr-x 2 root root 4096 Jul 28 2020 css/
drwxr-xr-x 2 root root 4096 Jul 28 2020 fonts/
drwxr-xr-x 2 root root 4096 Jul 28 2020 images/
-rw-r--r-- 1 root root 26013 Jul 28 2020 index.html
drwxr-xr-x 2 root root 4096 Jul 28 2020 js/
-rw-r--r-- 1 root root 12716 Jul 28 2020 portfolio.html
-rw-r--r-- 1 root root 13920 Jul 28 2020 service.html
root@ip-10-0-1-167:/var/www/html/troweld.html# mv * /var/www/html
root@ip-10-0-1-167:/var/www/html/troweld.html# cd ..
root@ip-10-0-1-167:/var/www/html# ll
total 1452
drwxr-xr-x 7 root root 4096 Dec 6 18:08 ./
drwxr-xr-x 3 root root 4096 Dec 6 18:01 ../
-rw-r--r-- 1 root root 11441 Jul 28 2020 about.html
-rw-r--r-- 1 root root 12557 Jul 28 2020 contact.html
drwxr-xr-x 2 root root 4096 Jul 28 2020 css/
drwxr-xr-x 2 root root 4096 Jul 28 2020 fonts/
drwxr-xr-x 2 root root 4096 Jul 28 2020 images/
-rw-r--r-- 1 root root 26013 Jul 28 2020 index.html
drwxr-xr-x 2 root root 4096 Jul 28 2020 js/
-rw-r--r-- 1 root root 12716 Jul 28 2020 portfolio.html
-rw-r--r-- 1 root root 13920 Jul 28 2020 service.html
drwxr-xr-x 2 root root 4096 Dec 6 18:08 troweld.html/
-rw-r--r-- 1 root root 1366425 Aug 20 2021 troweld.zip
root@ip-10-0-1-167:/var/www/html#
```

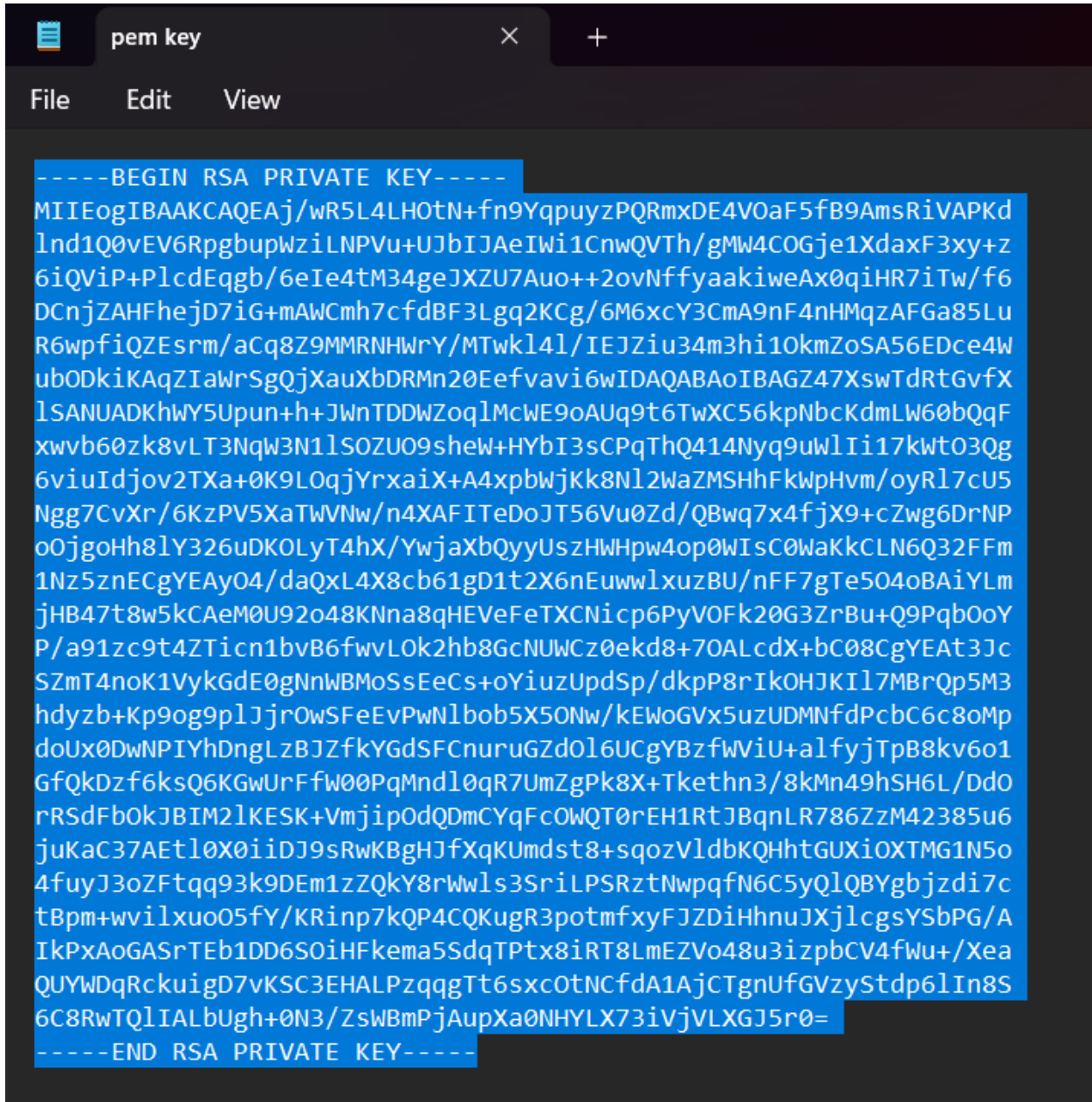
Copy Ipv4 Public IP for linux public server and paste in chrome tab as <http://3.85.4.65>



Successfully hosted application Website through Linux Public server in ubuntu.

Steps To login a private Linux server in Public linux server and Ensuring Private Linux Server is Pinging after adding a website content files in /var/www/html path.

Open the Linux pem key file in notepad and copy all the content.

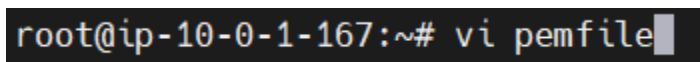


A screenshot of a Notepad application window titled 'pem key'. The window has a menu bar with 'File', 'Edit', and 'View'. The main text area contains a PEM private key, which is highlighted in blue. The key starts with '-----BEGIN RSA PRIVATE KEY-----' and ends with '-----END RSA PRIVATE KEY-----'. The key content is a long string of base64-encoded characters.

```
-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEaj/wR5L4LH0tN+fn9YqpuyzPQRmxDE4VOaF5fB9AmsRiVAPKd
lnd1Q0vEV6RpgbupWziLNpVu+UJbIJAeIWi1CnwQVTh/gMW4COGje1XdaxF3xy+z
6iQViP+PlcdEqgb/6eIe4tM34geJXZU7Auo++2ovNffyaakiweAx0qiHR7iT/f6
DCnjZAHFhejd7iG+mAWcmh7cfdBF3Lgq2KCg/6M6xcY3CmA9nF4nHMqzAFGa85Lu
R6wpfiQZEsrM/aCq8Z9MMRNHWry/MTwkl4l/IEJZiu34m3hi10kmZoSA56EDce4W
ubODkiKAqZiawRsgQjXauXbDRMn20Eefvavi6wIDAQABaoIBAGZ47XswTdRtGvfX
lSANUADKhWY5Upun+h+JWnTDDWZoqlMcWE9oAUq9t6TwXC56kpNbcKdmlW60bQqF
xwvb60zk8vLT3NqW3N1lSOZUO9shew+HYbI3sCPqThQ414Nyq9uWLi17kwt03Qg
6viuIdjov2TXa+0K9LOqjYrxaiX+A4xpbWjKk8Nl2waZMSHhFkwPHvm/oyRl7cU5
Ngg7CvXr/6KzPV5XaTWVNw/n4XAFITeDoJT56Vu0Zd/QBwq7x4fjX9+cZwg6DrNP
oOjgoHh8lY326uDKOLyT4hX/YwjaXbQyyUszHWHpw4op0WIsC0WaKkCLN6Q32FFm
1Nz5znECgYEAyO4/daQxL4X8cb61gD1t2X6nEuwwlxuzBU/nFF7gTe504oBAiYlm
jHB47t8w5kCAeM0U92o48KNna8qHEVeFeTXCNicp6PyVOFk20G3ZrBu+Q9Pqb0oY
P/a91zc9t4ZTicn1bvB6fwvLOk2hb8GcNUWCz0ekd8+7OALcdX+bc08CgYEAt3Jc
SZmT4nok1VykGdE0gNnWBMoSSEeCs+oYiuzUpdSp/dkpP8rIkOHJKl7MBRqP5M3
hdyzb+Kp9og9plJjrOwSFeEvPwNlBob5X50Nw/kEwoGVx5uzUDMNfdPcbC6c8oMp
doUx0DwNPIYhDngLzBJZfkYGdSFCnuruGZd0l6UCgYBzfwViU+alfyjTpB8kv6o1
GfQkDzf6ksQ6KGWUrFfw00PqMndl0qR7UmZgPk8X+Tkethn3/8kmn49hSH6L/DdO
rRsdFbokJBIM2lKESK+VmJipOdQDmCYqFcOWQT0rEH1RtJBqnLR786ZzM42385u6
juKaC37Aetl0X0iIDJ9sRwKBgHJfXqKumdSt8+sqozVldbKQHhtGUXioXTMG1N5o
4fuyJ3oZFtqq93k9DEm1zZQkY8rWwls3SriLPSRztNwpqfN6C5yQLQBYgbjzdi7c
tBpm+wwilxuo05fY/KRinp7kQP4CQKugR3potmfxyFJZDiHhnuJXjlcgsYSbPG/A
IkPxAoGASrTEb1DD6S0iHfKema5SdqTPtx8iRT8LmEZVo48u3izpbCV4fWu+/Xea
QUYWDqRckuigD7vKSC3EHALPzqqgTt6sxcOtNCfdA1AjCTgnUfGVzyStdplIn8S
6C8RwTQlIALbUgh+0N3/ZsWBmPjAupXa0NHYLX73iVjVLXGJ5r0=
-----END RSA PRIVATE KEY-----
```

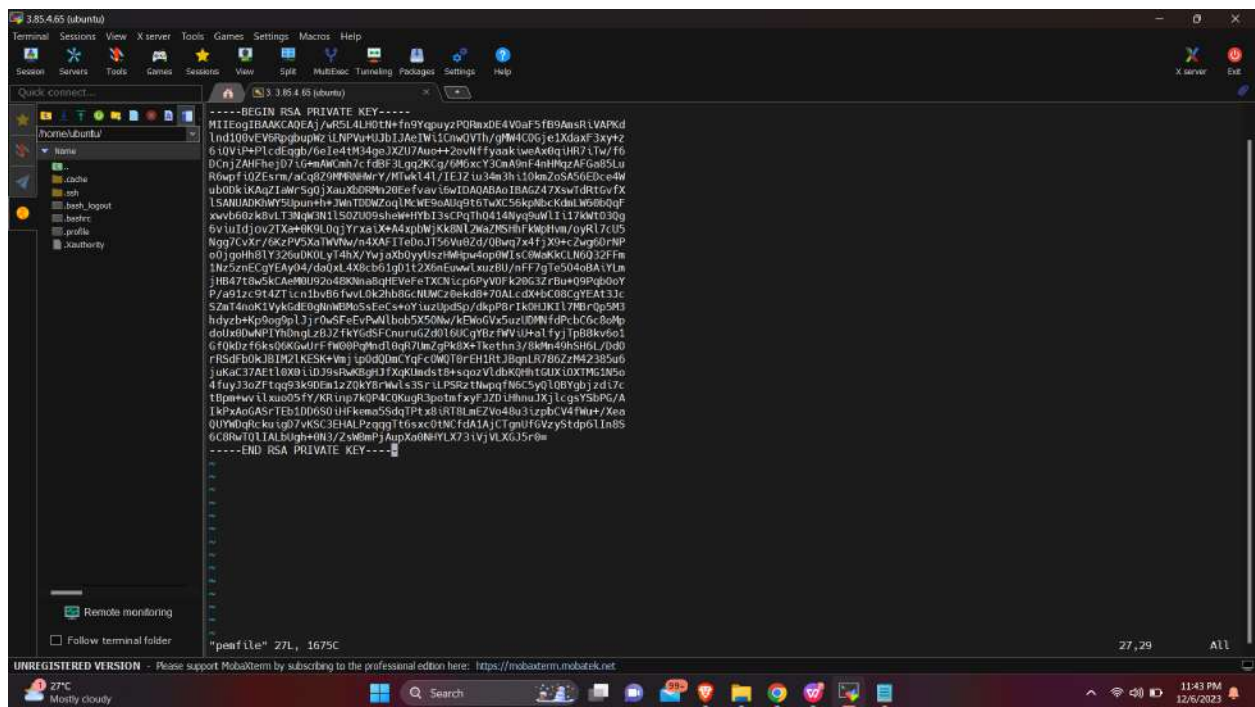
In linux public server create a file paste all the content from the pem file.

#vi pemfile



A screenshot of a terminal window showing the command 'vi pemfile' being entered at the prompt 'root@ip-10-0-1-167:~#'. The prompt and the command are highlighted in blue.

```
root@ip-10-0-1-167:~# vi pemfile
```



Give permission to the file.

#chmod 400 pem file

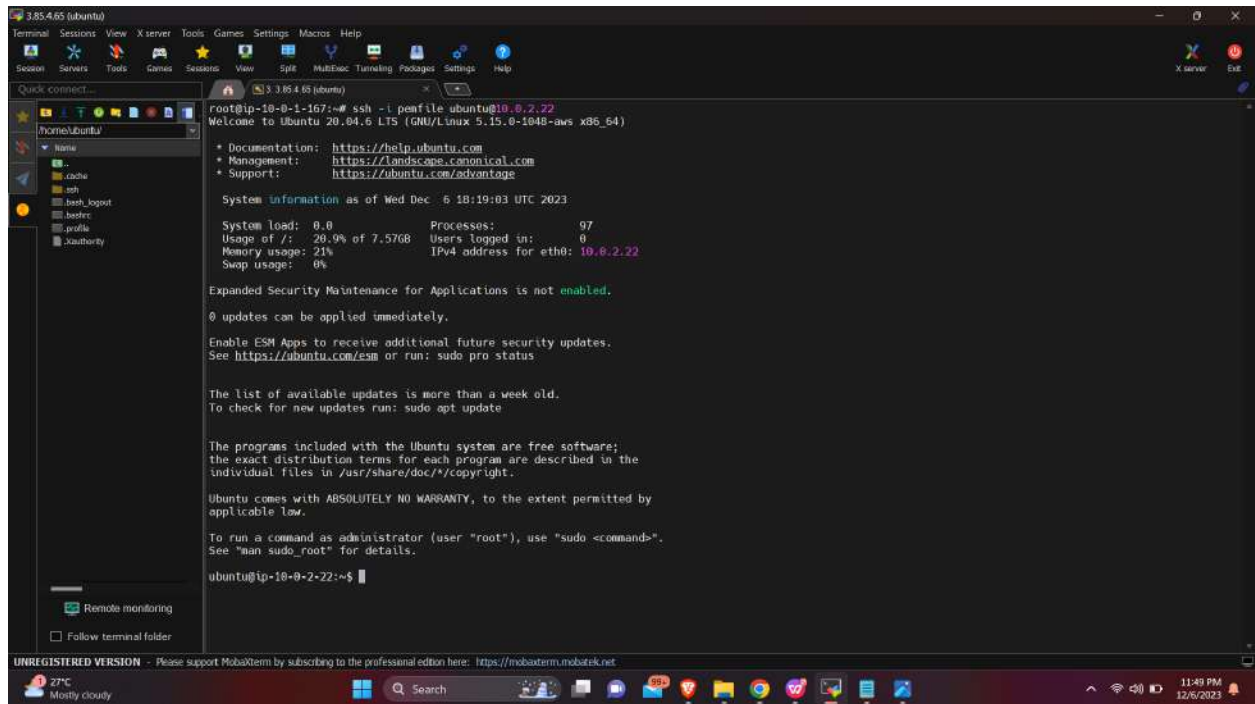
```
root@ip-10-0-1-167:~# chmod 400 pemfile
```

Now Login private linux server inside public Linux Server using ssh command

#ssh -i pemfile ubuntu@10.0.2.22

```
root@ip-10-0-1-167:~# ssh -i pemfile ubuntu@10.0.2.22
```

Successfully login private linux server inside public linux server using ssh command.



Now follow the same steps to install apache service in the private server.

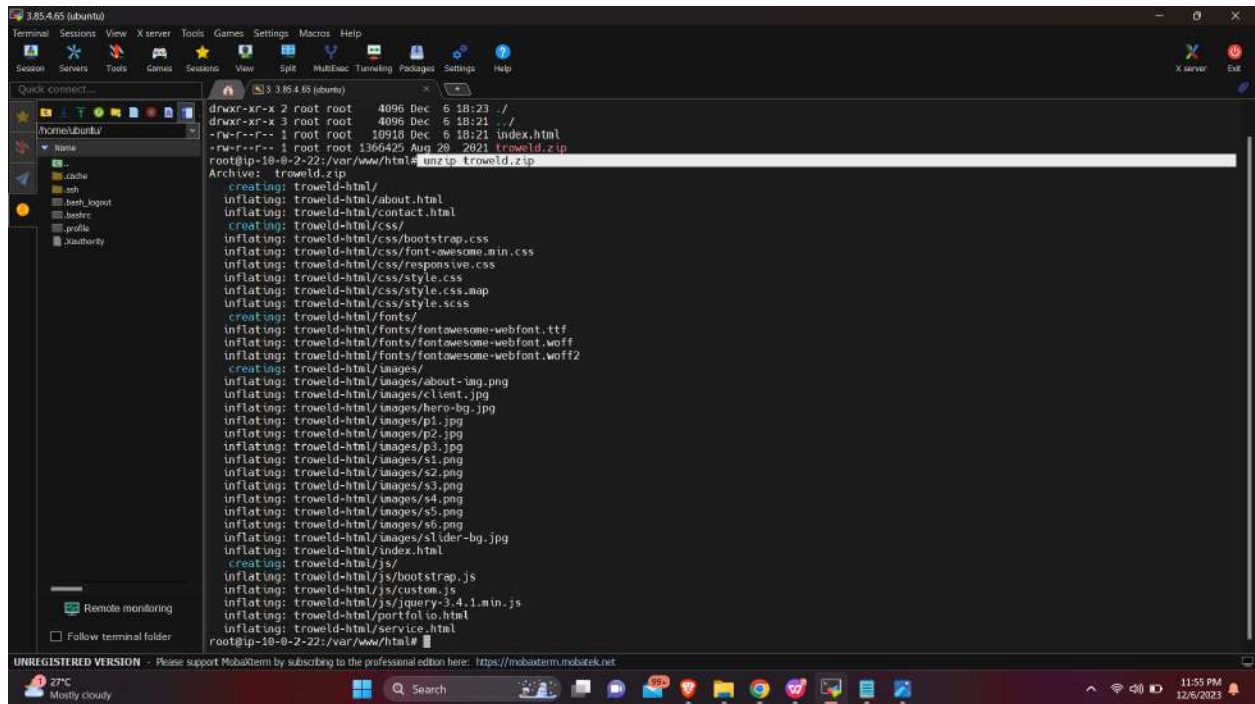
```
#sudo -i
```

```
#apt update
```

```
ubuntu@ip-10-0-2-22:~$ sudo -i
root@ip-10-0-2-22:~# apt update
```

```
#apt install apache2
```



```
#ll
```

```
#cd <website template directory name>
```

```
#ls
```

```
#mv * /var/www/html
```

```
#cd ..
```

```
#ls
```

All website content inside website template dir are moved into /var/www/html directory.

```
root@ip-10-0-2-22:/var/www/html# ll
total 1360
drwxr-xr-x 3 root root 4096 Dec 6 18:24 ./
drwxr-xr-x 3 root root 4096 Dec 6 18:21 ../
-rw-r--r-- 1 root root 10918 Dec 6 18:21 index.html
drwxr-xr-x 6 root root 4096 Jul 28 2020 troweld-html/
-rw-r--r-- 1 root root 1366425 Aug 20 2021 troweld.zip
root@ip-10-0-2-22:/var/www/html# cd troweld-html/
root@ip-10-0-2-22:/var/www/html/troweld-html# ls
about.html contact.html css fonts images index.html js portfolio.html service.html
root@ip-10-0-2-22:/var/www/html/troweld-html# mv * /var/www/html
root@ip-10-0-2-22:/var/www/html/troweld-html# cd ..
root@ip-10-0-2-22:/var/www/html# ls
about.html contact.html css fonts images index.html js portfolio.html service.html troweld-html troweld.zip
root@ip-10-0-2-22:/var/www/html#
```

Ping linux private server private IPv4 using ping command

```
#ping 10.0.2.22
```



```
3.85.4.65 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Quick connect...
home/ubuntu
root@ip-10-0-2-22:/var/www/html# ping 10.0.2.22
PING 10.0.2.22 (10.0.2.22) 56(84) bytes of data:
64 bytes from 10.0.2.22: icmp_seq=1 ttl=64 time=0.022 ms
64 bytes from 10.0.2.22: icmp_seq=2 ttl=64 time=0.034 ms
64 bytes from 10.0.2.22: icmp_seq=3 ttl=64 time=0.034 ms
64 bytes from 10.0.2.22: icmp_seq=4 ttl=64 time=0.033 ms
64 bytes from 10.0.2.22: icmp_seq=5 ttl=64 time=0.034 ms
64 bytes from 10.0.2.22: icmp_seq=6 ttl=64 time=0.033 ms
64 bytes from 10.0.2.22: icmp_seq=7 ttl=64 time=0.032 ms
64 bytes from 10.0.2.22: icmp_seq=8 ttl=64 time=0.045 ms
64 bytes from 10.0.2.22: icmp_seq=9 ttl=64 time=0.033 ms
64 bytes from 10.0.2.22: icmp_seq=10 ttl=64 time=0.033 ms
^C
--- 10.0.2.22 ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 921ms
rtt min/avg/max/mdev = 0.022/0.033/0.045/0.005 ms
root@ip-10-0-2-22:/var/www/html#
```

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27°C Mostly cloudy 11:58 PM 12/5/2023