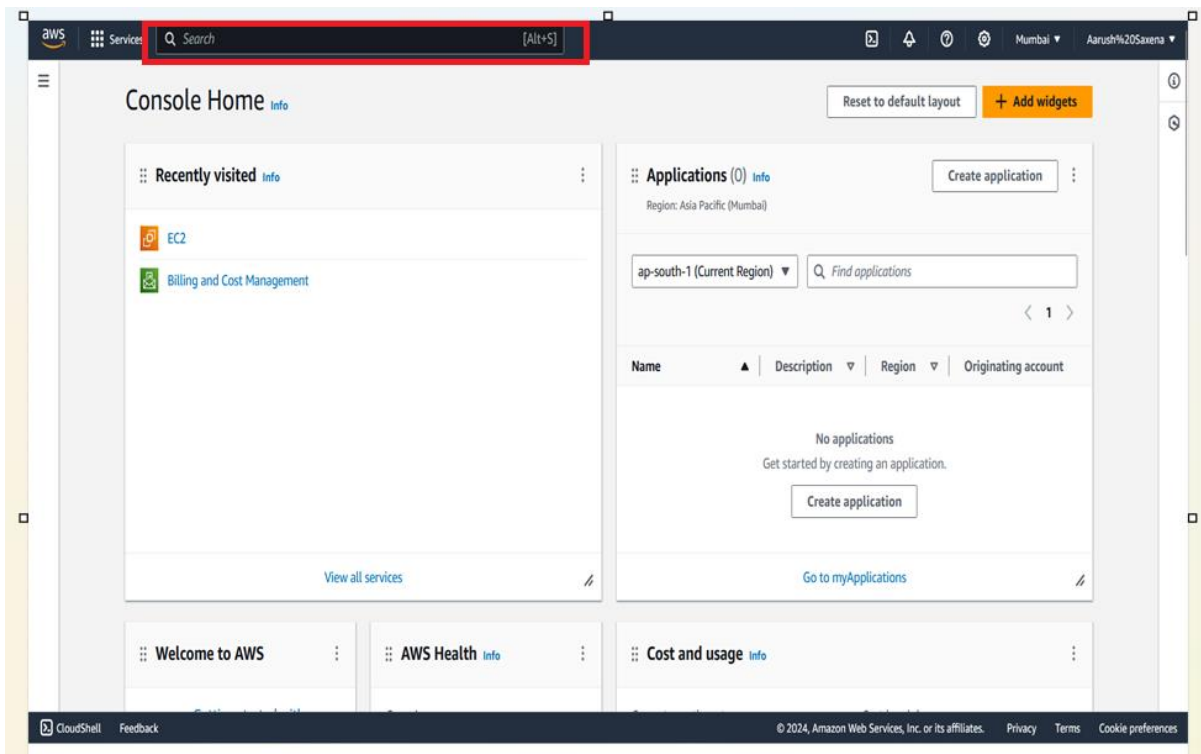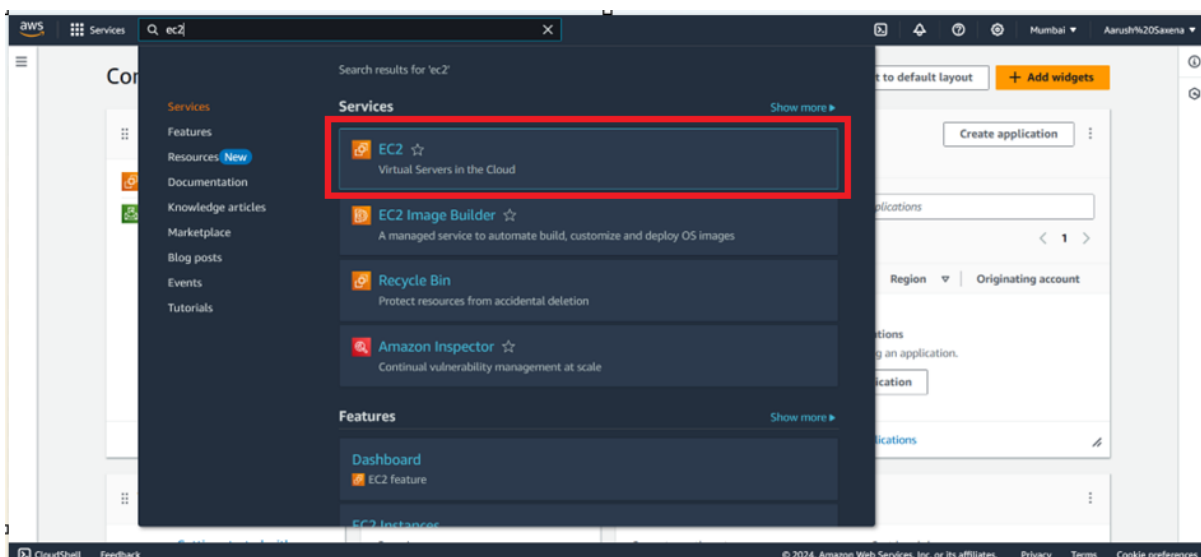# EC2(elastic compute cloud)
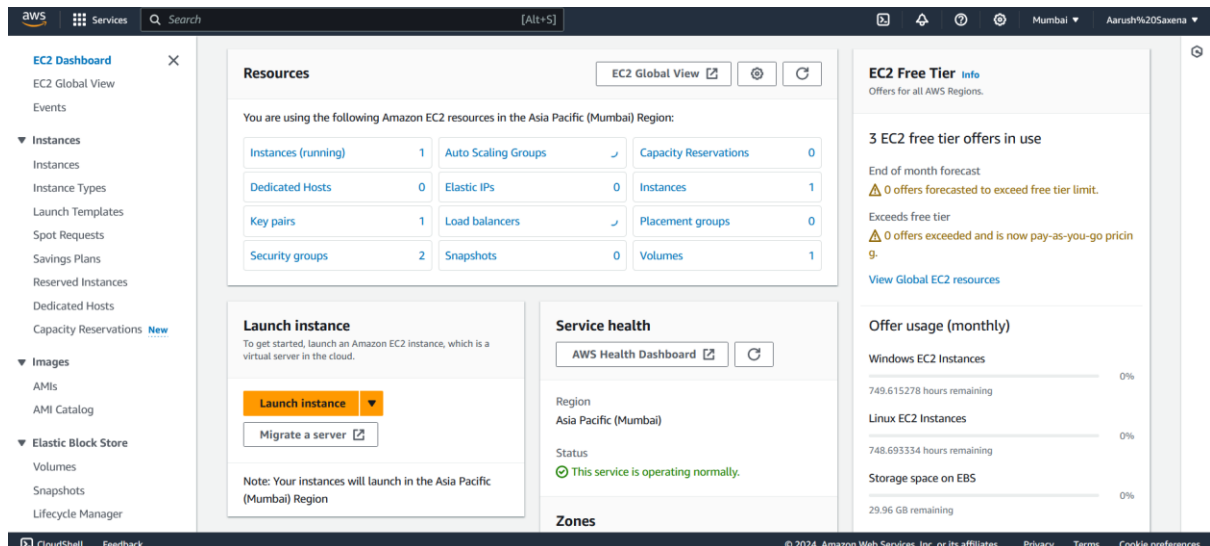
When we log-in to our aws account it will appear as shown in image given below

Step1: Click on searchbar, type EC2 and click on it

Once you clicked on that a window will appear as shown in image given below click on Instances to create instance
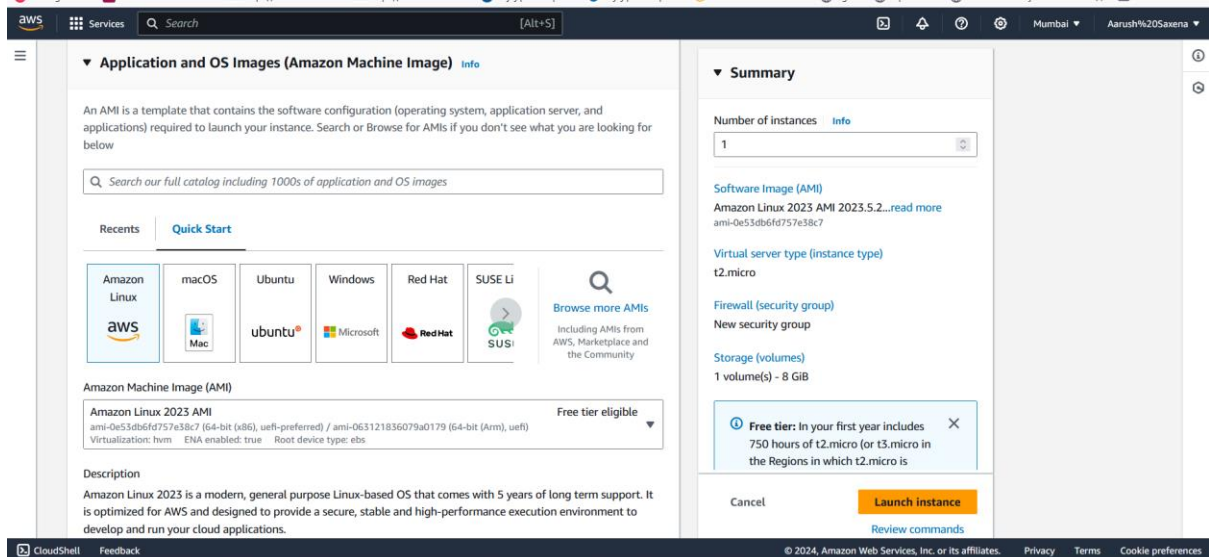

Step2:If you ever made an instance in that region all instances will appear in that region else same as shown as in image given below. Click on Launch Instance.
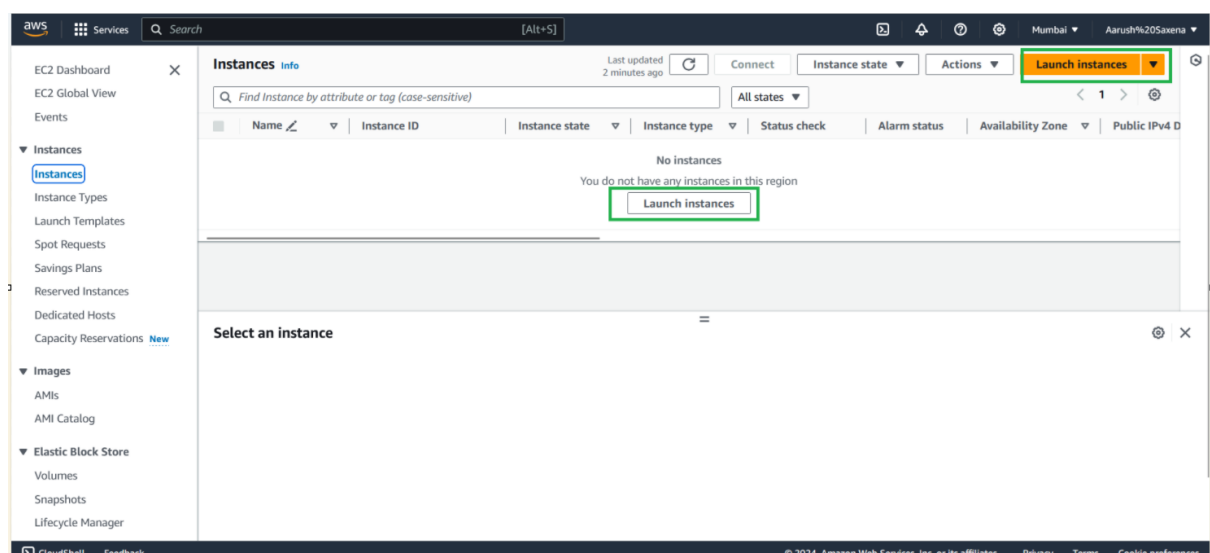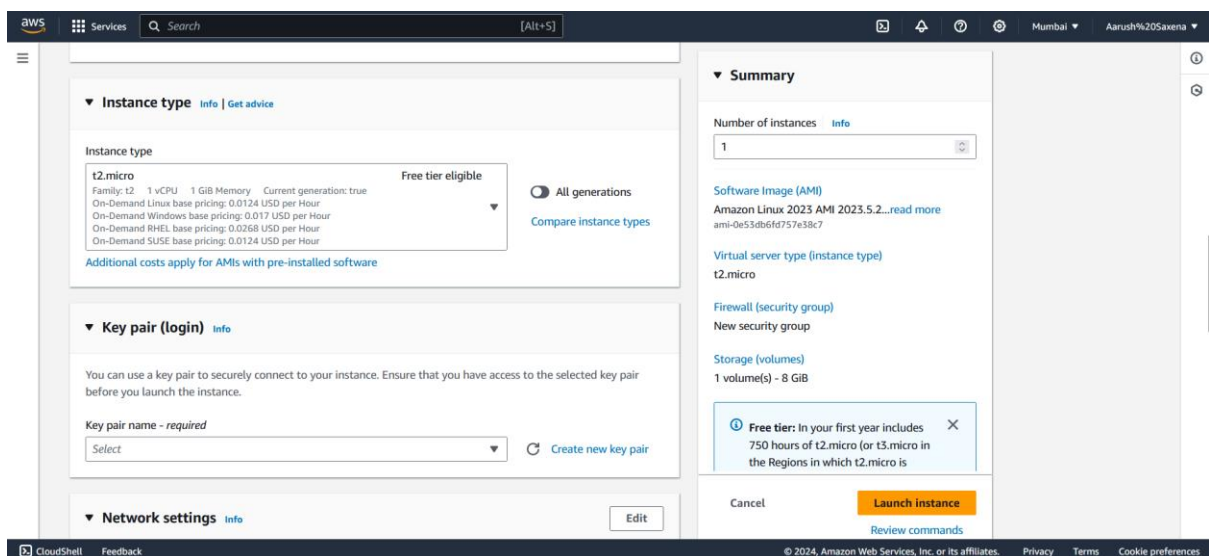
As you click on Launch instance a window will appear as shown in image given below .
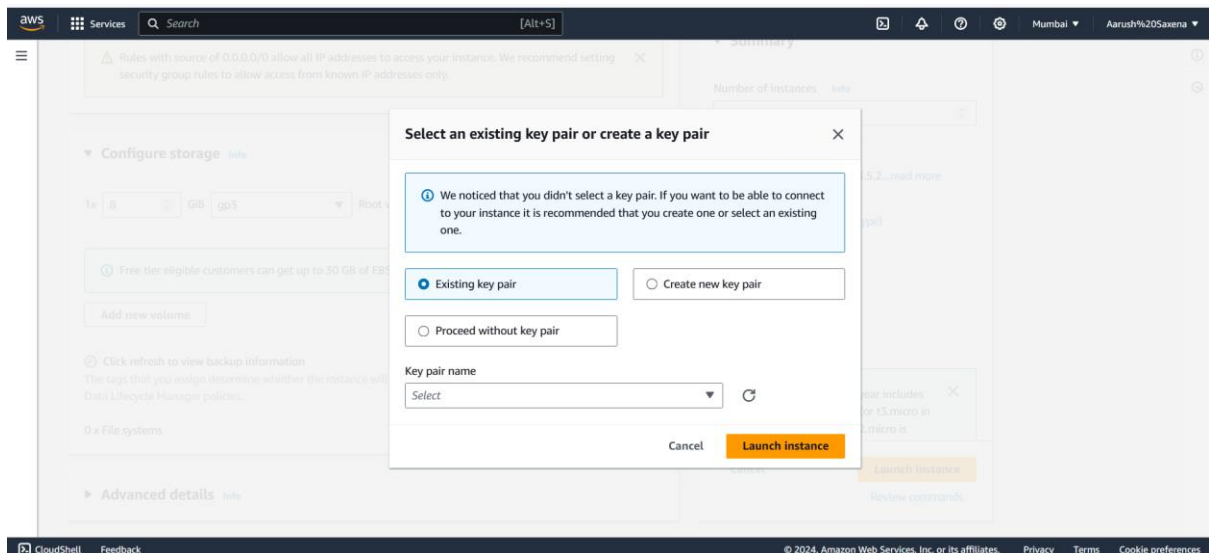
Step3: Name your instance as your wish and choose your suitable instance's Operating system to work on it

Step4: Choose instance type as your wish or as your requirement


Afte that click on create new key pair and a window will appear as shown in image given below

As I have an existing key pair, it's showing something like this as you don't have one click on create new key pair and leave other settings to default.

And remember it where you are saving it so that you can use it in future or run your ssh through cmd or other by entering to that path.

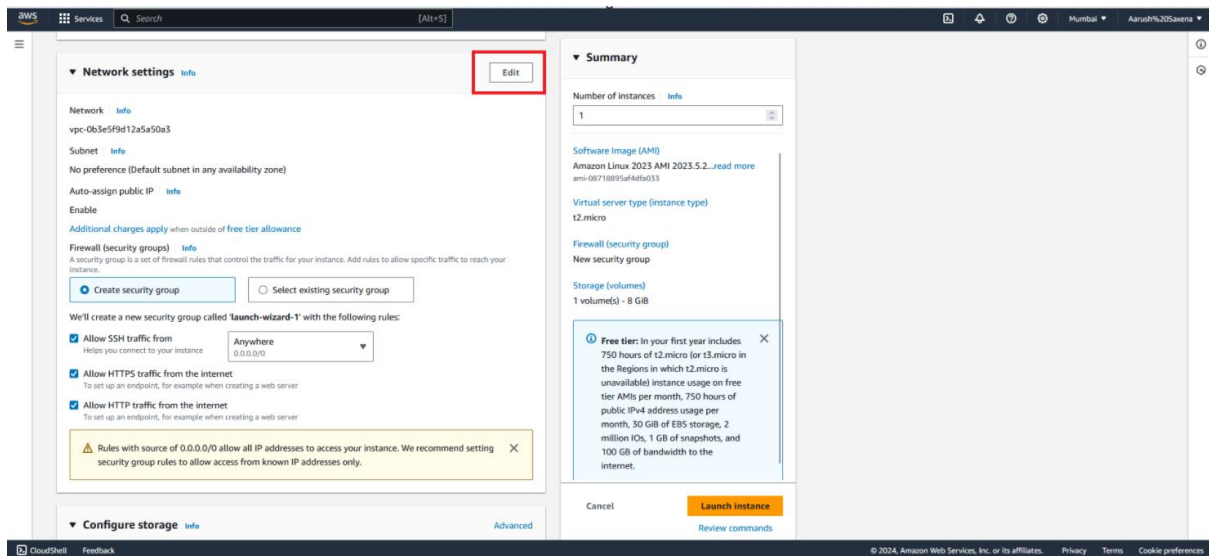As I save a key pair on my downloads folder it will appear like this
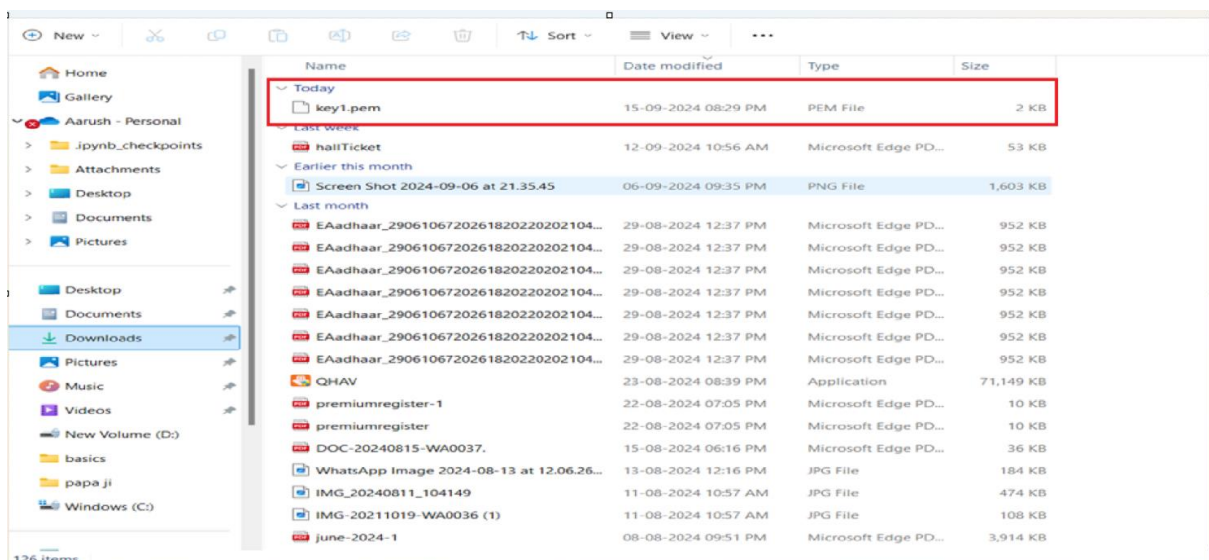
Step5: After that remember to allow HTTPS, traffic from the internet option so that you can host your website through internet on browers
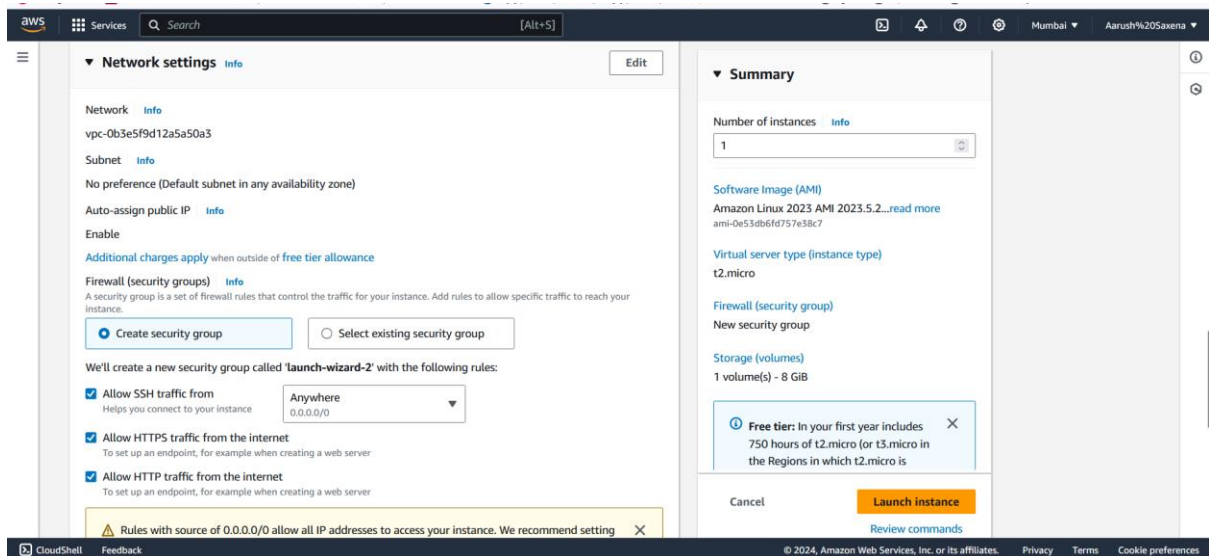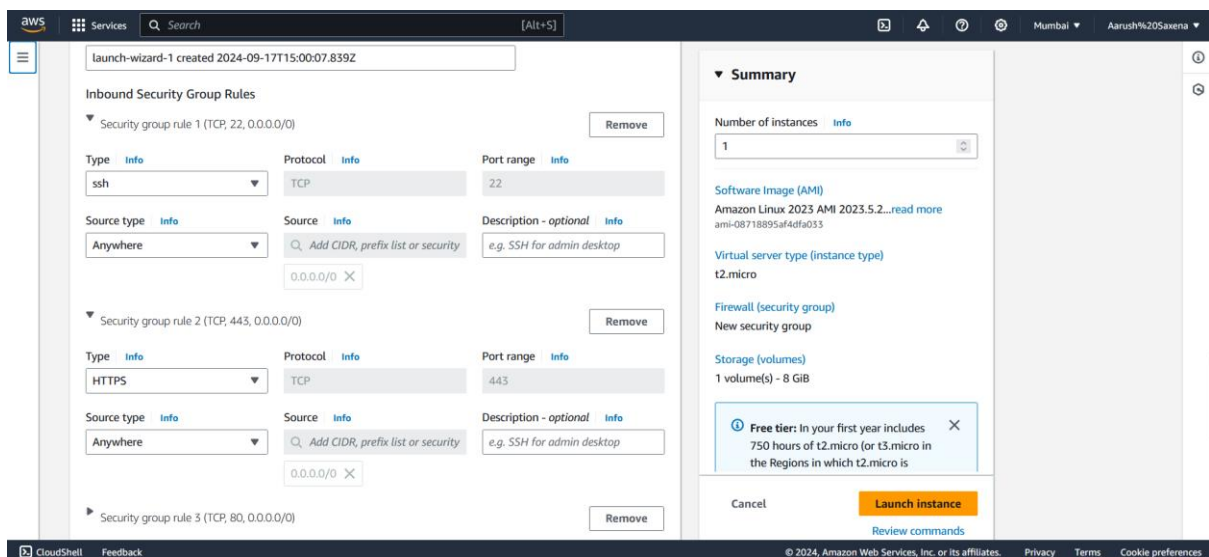

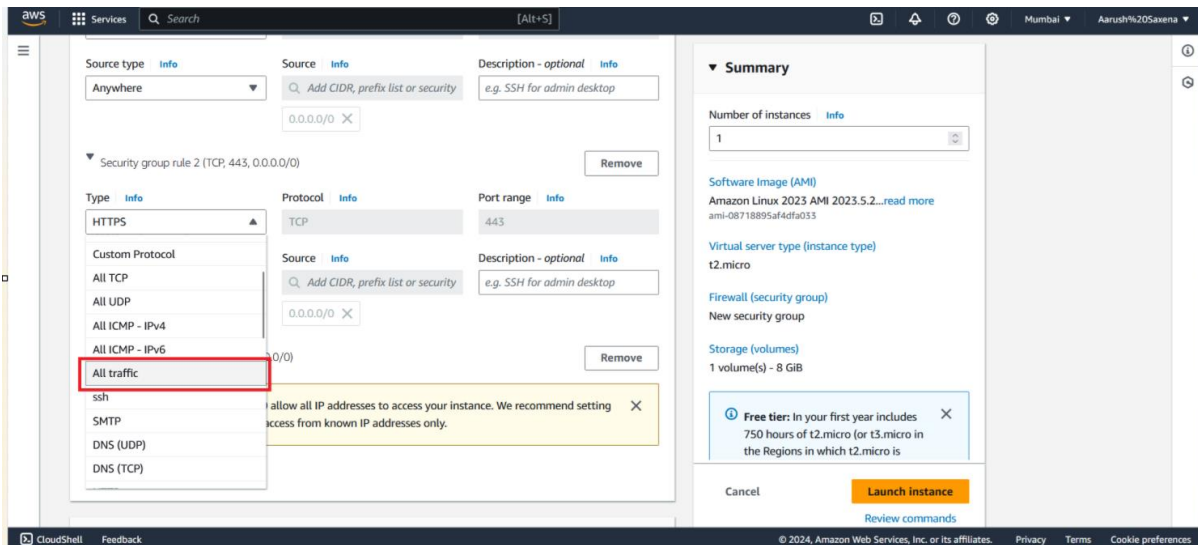Leave other settings to default settings.

OR

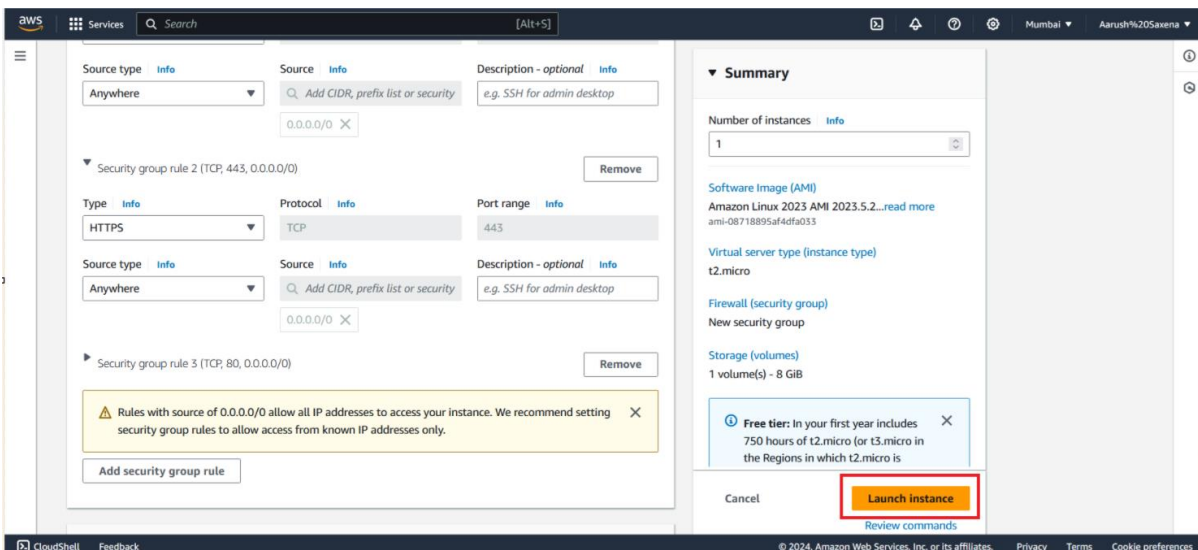## Step6: Click on edit option of Network settings

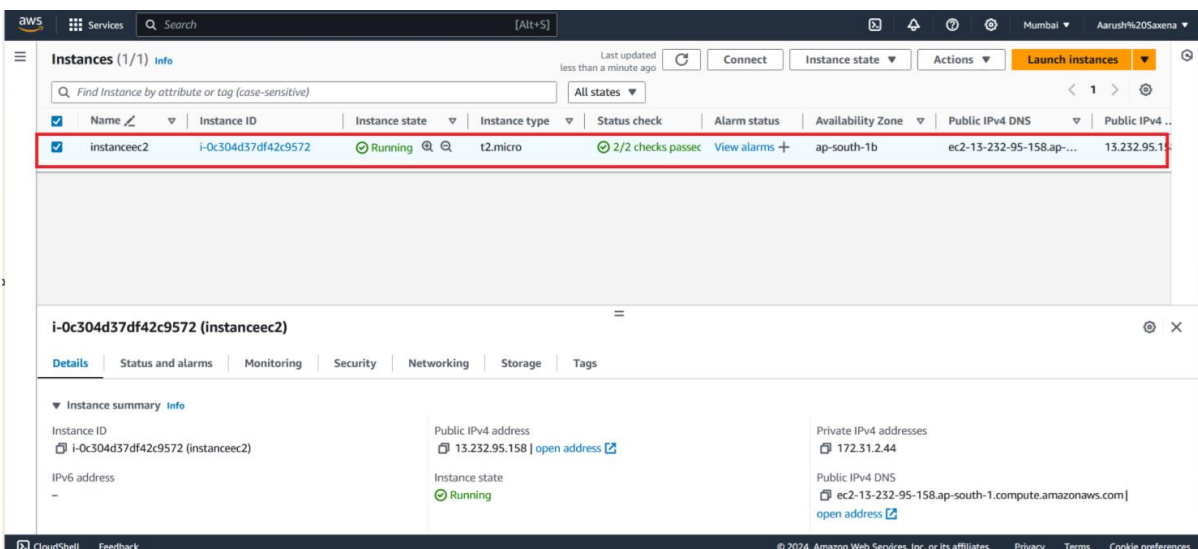By default it shows options like this image given below

And now we have to change types so that we can allow all traffics to acces our website

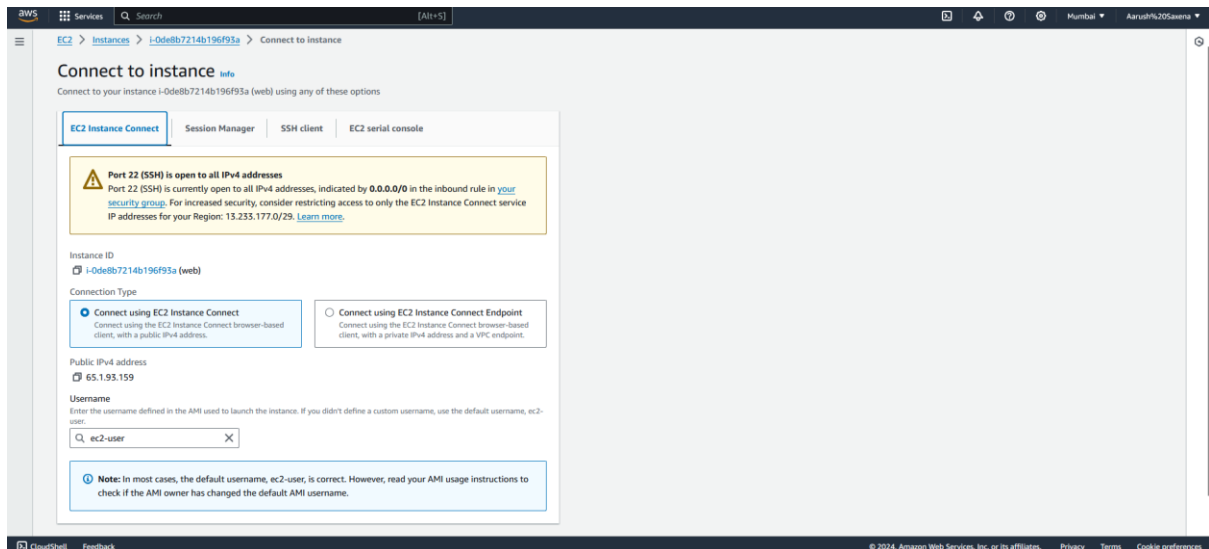## Step7: After that click on launch instances

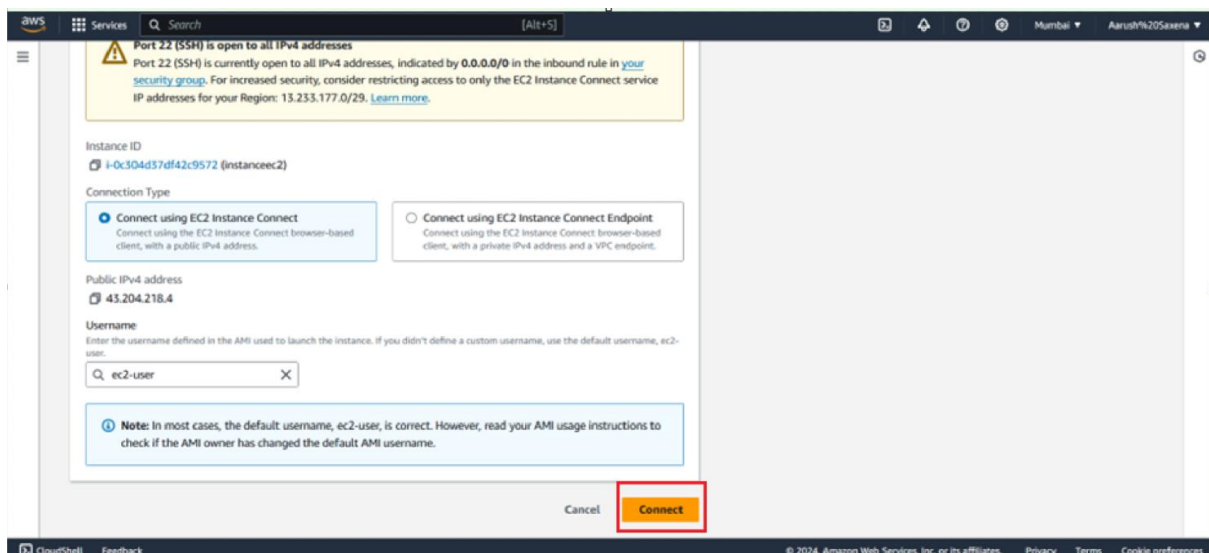## Your instance now has been created

Now you can connect it through cmd, terminal, windows powershell and through aws ec2 connect.

Step8: Now select your instance and click on connect button

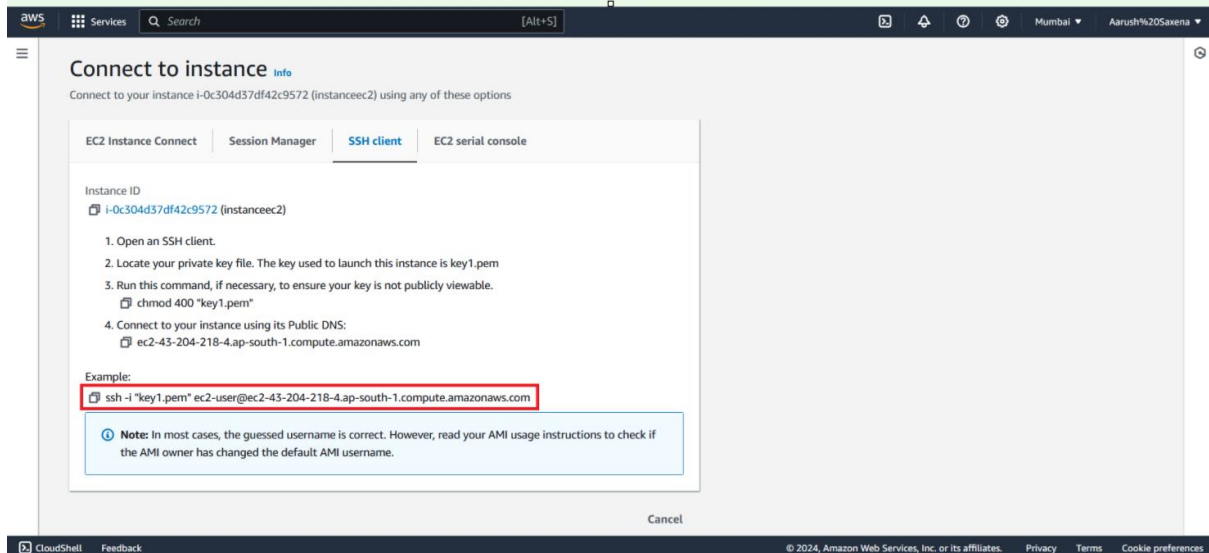Step9: After clicking it shows like this as in the picture given below

So to connect aws ec2 connect we can simply click on connect button

OR

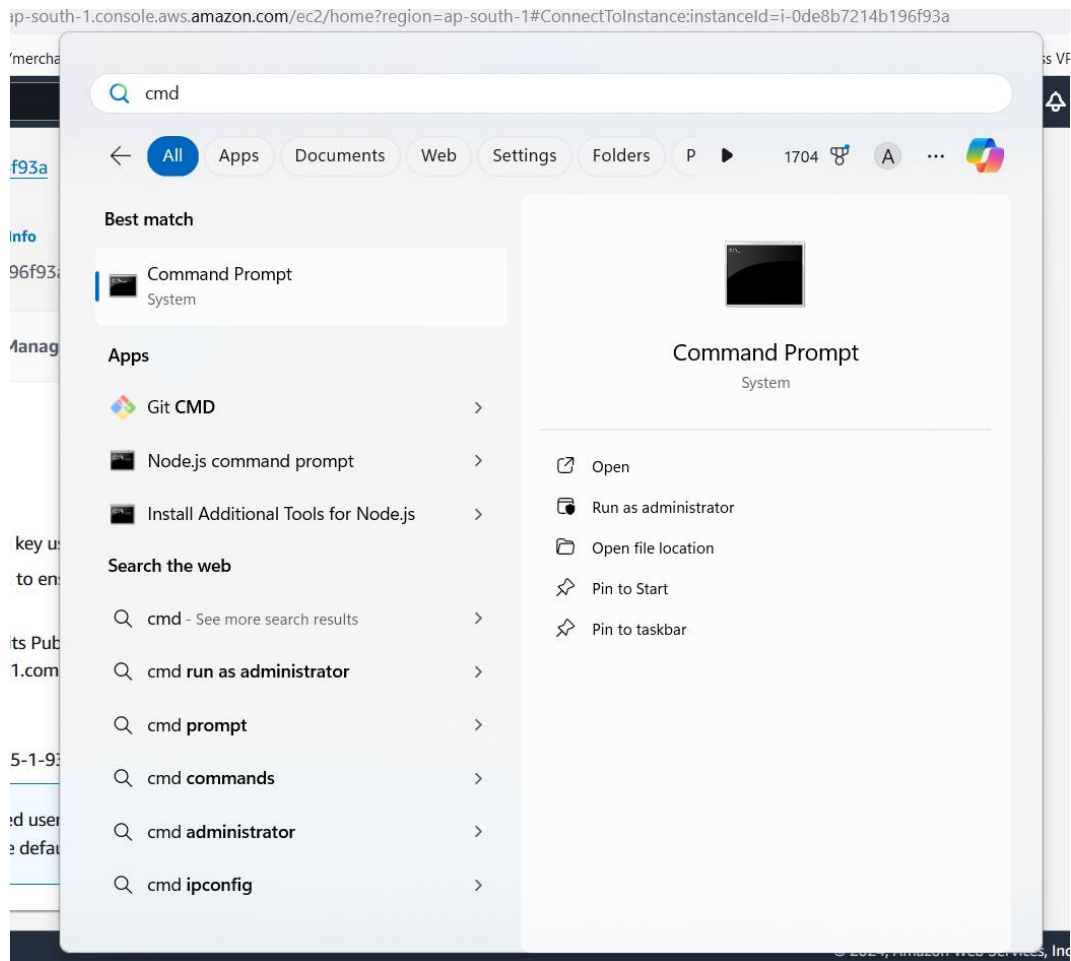Step10: We are going to connect it through cmd

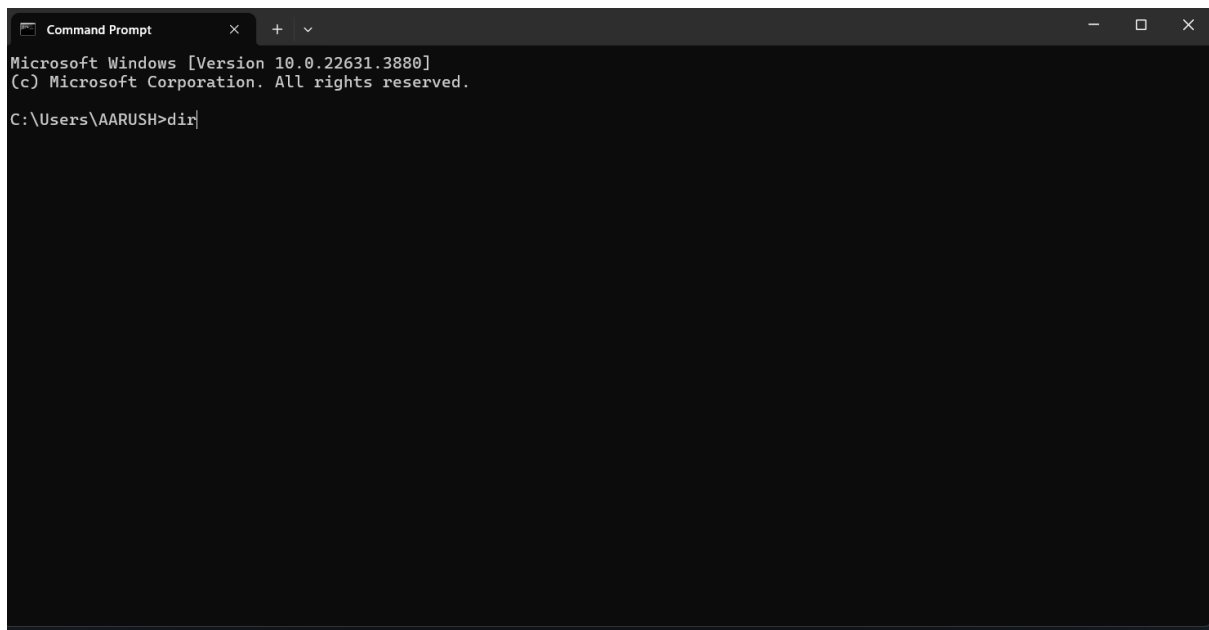Copy this path and paste it to your directory where you download that key

Step11: Go to search bar and type cmd

And go to your directory where you have downloaded your key or .pem file by using cd(change directory) command

And search there that your file exsits there or not by using command ls -a

As I downloaded my key in downloads directory go to there

```
Directory of C:\Users\AARUSH

15-09-2024  20:17    <DIR>          .
27-07-2024  13:27    <DIR>          ..
04-07-2024  17:48    <DIR>          .android
13-09-2024  22:20             744 .bash_history
28-07-2023  22:43    <DIR>          .cache
14-09-2024  20:51              25 .gitconfig
24-12-2023  18:06              20 .lesshst
24-08-2024  22:29           1,016 .node_repl_history
16-05-2024  23:36             320 .packettracer
28-07-2023  22:42    <DIR>          .redhat
13-09-2024  22:20           1,006 .viminfo
26-07-2023  23:20    <DIR>          .vscode
16-05-2024  23:37    <DIR>          Cisco Packet Tracer 8.2.2
25-07-2023  23:57    <DIR>          Contacts
23-08-2024  20:43    <DIR>          Documents
15-09-2024  20:29    <DIR>          Downloads
25-07-2023  23:57    <DIR>          Favorites
25-07-2023  23:57    <DIR>          Links
25-07-2023  23:57    <DIR>          Music
20-11-2023  21:05       2,240,512 mysql-installer-web-community-8.0.35.0.msi
15-09-2024  20:17    <DIR>          OneDrive
25-07-2023  23:57    <DIR>          Saved Games
25-07-2023  17:06    <DIR>          Searches
03-08-2023  22:17    <DIR>          Videos
               7 File(s)      2,243,643 bytes
              17 Dir(s)  180,957,532,160 bytes free

C:\Users\AARUSH>cd Downloads
```

As to confirm that your key actually present there or not type command ls -a


```
C:\Users\AARUSH>cd Downloads

C:\Users\AARUSH\Downloads>ls
'!qhlogs.doc'
 11.docx
 237041100208.pdf
 26020131226130447575.pdf
 63747ce581f7a5a0ea538209eab082d81375621c0356235660d787923362eb0d_encrypt_signedFinal.pdf
 736803cb8ffc12a290ff6355dd5b9fc6a0b4640720c32c23a19d1014a5294e10_encrypt_signedFinal.pdf
 AAJ3559044.pdf
'AARUSH SAXENA.pdf'
'ARUN FRONT.pdf'
 Acctstmt_B.pdf
'Acctstmt_H (1).pdf'
'Acctstmt_H (2).pdf'
 Acctstmt_H.pdf
 Acctstmt_L.pdf
'CONSOLIDATED_PREMIUM_PAID_STMT_2023-2024 (1).pdf'
 CONSOLIDATED_PREMIUM_PAID_STMT_2023-2024.pdf
 CONSOLIDATED_PREMIUM_PAID_STMT_2024-2025.pdf
 DOC-20240815-WA0037..pdf
 EAadhaar_000000890067802023111 6123310_08052024135755.pdf
 EAadhaar_000000890067802023111 6123310_0805202414521.pdf
 EAadhaar_10076067400742201107 04141852_08052024123811.pdf
 EAadhaar_21891235890950201709 27133710_0505202413405.pdf
'EAadhaar_290610672026182022020 2104000_29082024122450 (1).pdf'
'EAadhaar_290610672026182022020 2104000_29082024122450 (2).pdf'
'EAadhaar_290610672026182022020 2104000_29082024122450 (3).pdf'
'EAadhaar_290610672026182022020 2104000_29082024122450 (4).pdf'
'EAadhaar_290610672026182022020 2104000_29082024122450 (5).pdf'
```

Step12:And now paste that code which we have copied it from ssh(aws)

Step13: As we have entered to it type command sudo su to get acess of super user

Step14: After that type command yum update -y to update it

```
premiumregister.pdf
python-3.11.4-amd64.exe
renewal_export_1711461925277.xlsx
renewal_export_1711462909208.xlsx
rufus-4.5.exe
sanjaykumarsaxenaphoto.jpg
sanjaykumarsaxenasignature.jpg
signature.jpg
'upasana recipt.pdf'
upasana_auto_x2.jpg

C:\Users\AARUSH\Downloads> ssh -i "key1.pem" ec2-user@ec2-65-1-93-159.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-65-1-93-159.ap-south-1.compute.amazonaws.com (65.1.93.159)' can't be established.
ED25519 key fingerprint is SHA256:CaBwZjdbF7JYQuEDdPD5IVK6u48q5kYW3yF/9z7uz+c.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'ec2-65-1-93-159.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.
      #_
  ~\_  ####_          Amazon Linux 2023
 ~~  \_#####\
 ~~     \###|
 ~~       \#/ ___     https://aws.amazon.com/linux/amazon-linux-2023
  ~~       V~' '->
   ~~~         /
    ~~._.   _/
      _/ _/
     _/m/'
[ec2-user@ip-172-31-3-216 ~]$ sudo su
[root@ip-172-31-3-216 ec2-user]# yum update -y
```

Step15: Now you can install nginx or httpd to use the services we are going with httpd to install it type command yum install httpd -y.

```
sanjaykumarsaxenaphoto.jpg
sanjaykumarsaxenasignature.jpg
signature.jpg
'upasana recipt.pdf'
upasana_auto_x2.jpg

C:\Users\AARUSH\Downloads> ssh -i "key1.pem" ec2-user@ec2-65-1-93-159.ap-south-1.compute.amazonaws.com
The authenticity of host 'ec2-65-1-93-159.ap-south-1.compute.amazonaws.com (65.1.93.159)' can't be established.
ED25519 key fingerprint is SHA256:CaBwZjdbF7JYQuEDdPD5IVK6u48q5kYW3yF/9z7uz+c.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'ec2-65-1-93-159.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.
      #_
  ~\_  ####_          Amazon Linux 2023
 ~~  \_#####\
 ~~     \###|
 ~~       \#/ ___     https://aws.amazon.com/linux/amazon-linux-2023
  ~~       V~' '->
   ~~~         /
    ~~._.   _/
      _/ _/
     _/m/'
[ec2-user@ip-172-31-3-216 ~]$ sudo su
[root@ip-172-31-3-216 ec2-user]# yum update -y
Last metadata expiration check: 0:15:30 ago on Sun Sep 15 15:00:45 2024.
Dependencies resolved.
Nothing to do.
Complete!
[root@ip-172-31-3-216 ec2-user]# yum install httpd -y
```

Step16: By default when we download httpd it's services turned off or to check it is open or not type command systemctl status httpd

Step17: Now to turn on the server we have to type this command systemctl start httpd

Now you can see that the services has been started

Now we have to go var/www/html

Step18: As we can see there Is no file created in this folder so we can make a file in it using vi,vim,cat touch commands

Step19: Copy this ip and paste it in any browser
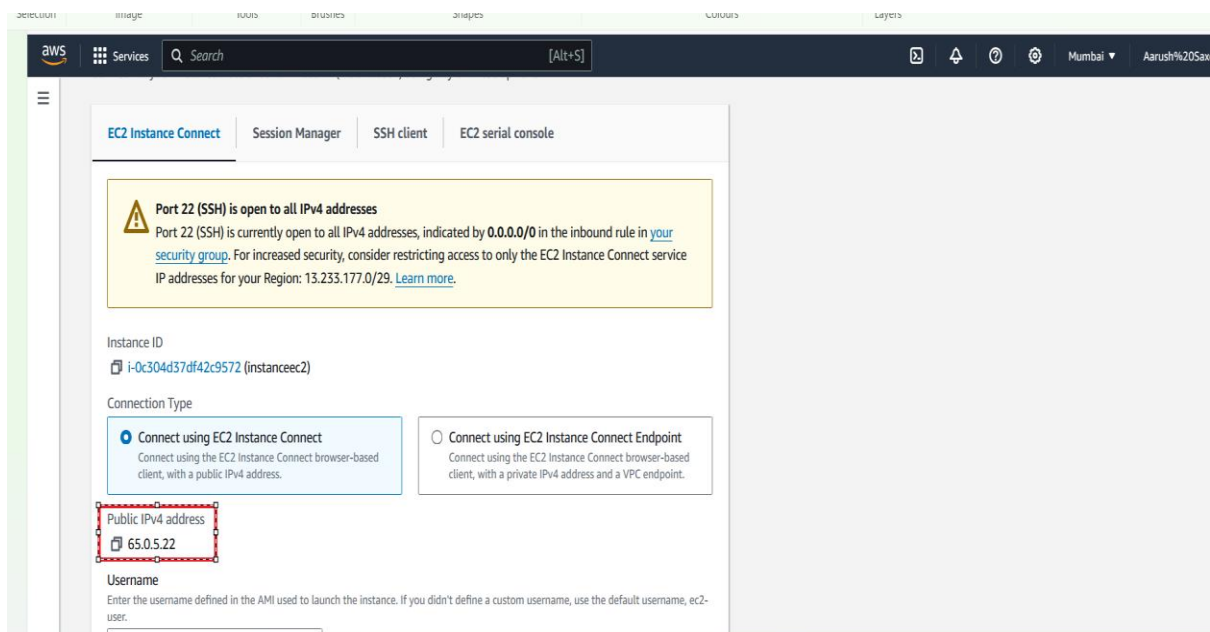
Now you can see your printed index.html file on tab as shown in image given below

hello sir keep going and one time you will defenitely get sucees