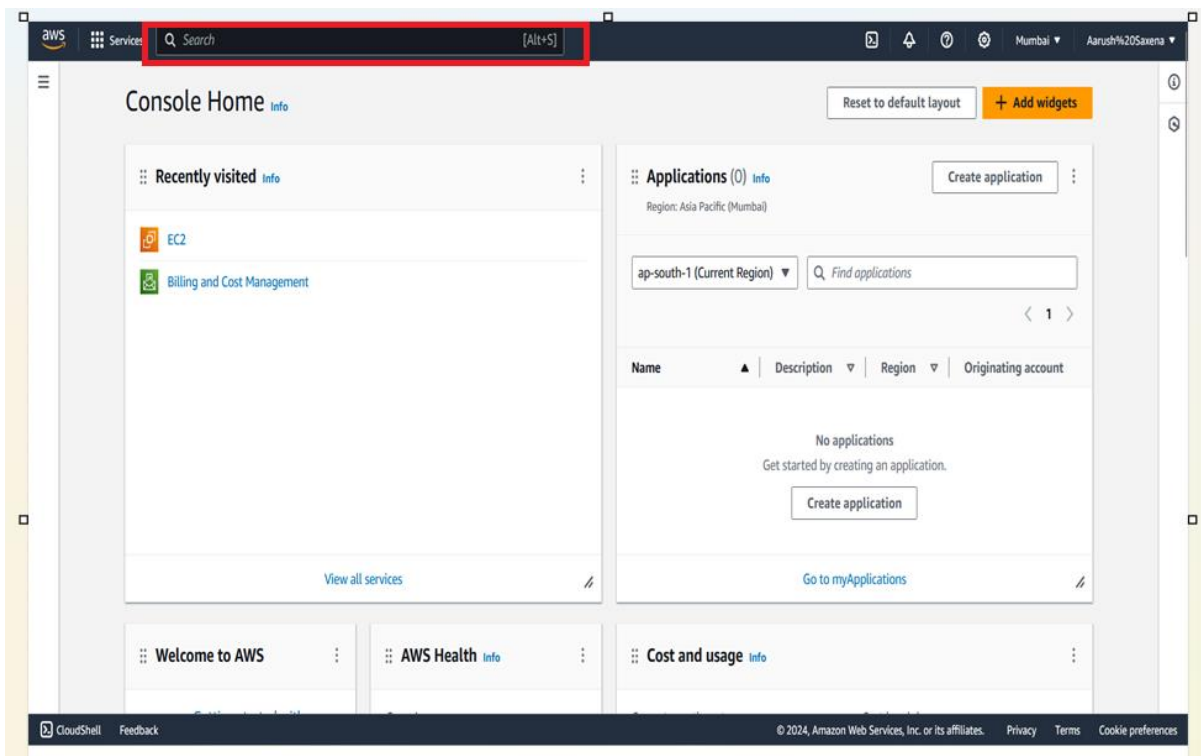
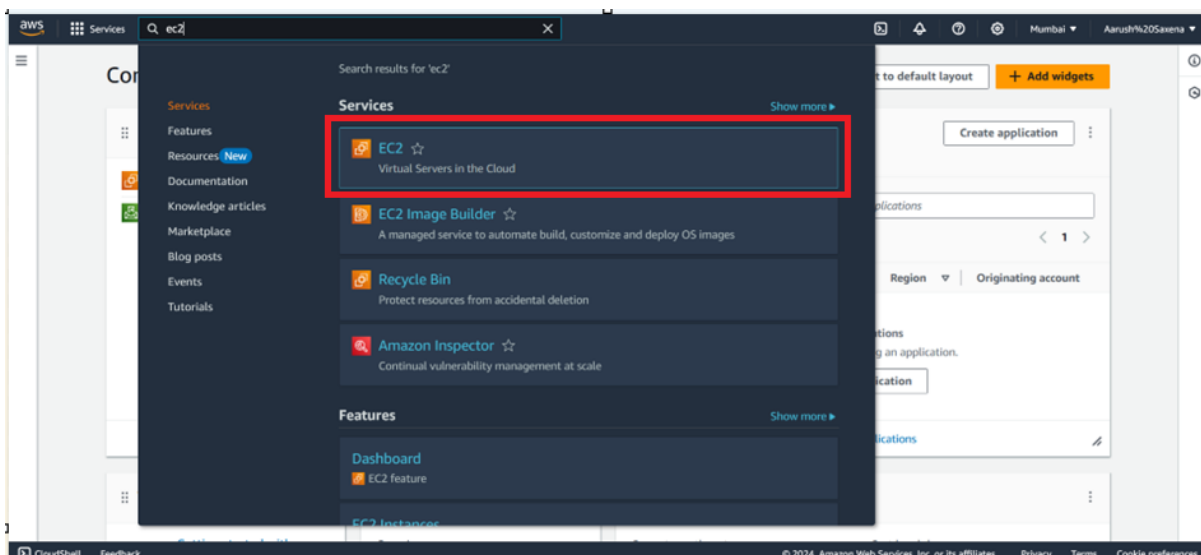


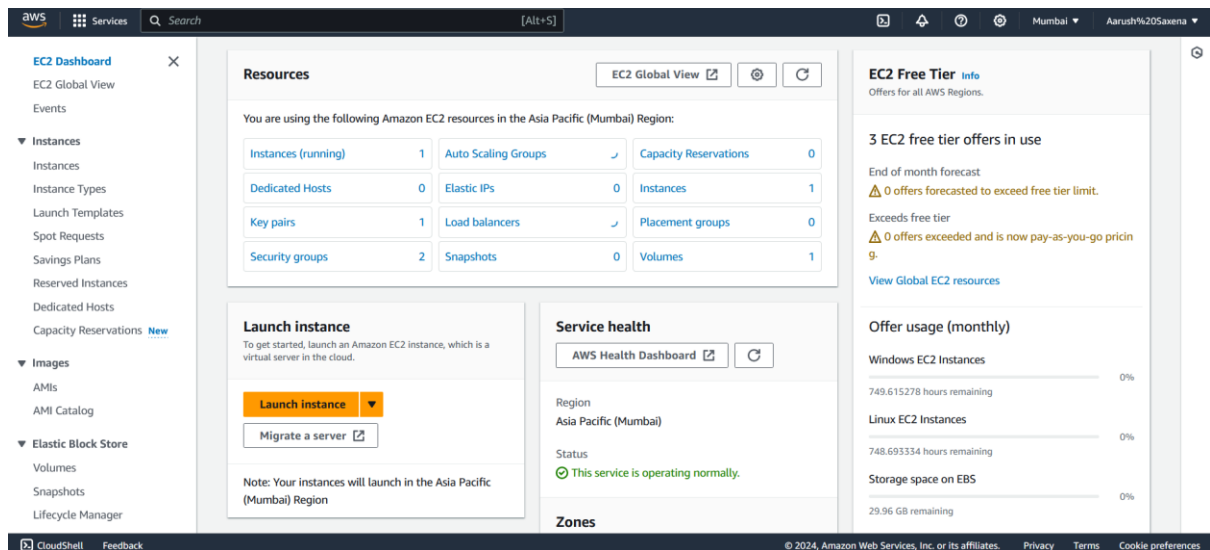
We login to aws account and it shows somethings like this



After that click on searchbar and type EC2 click on it

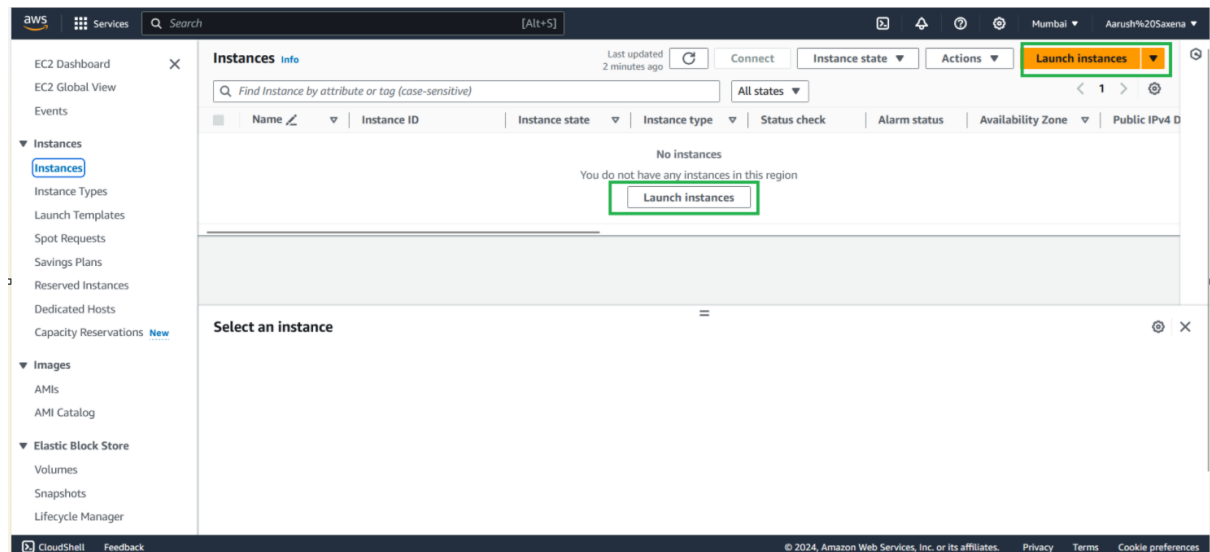


Once you clicked on that a window appeared like this



And now click on Instances to make instances

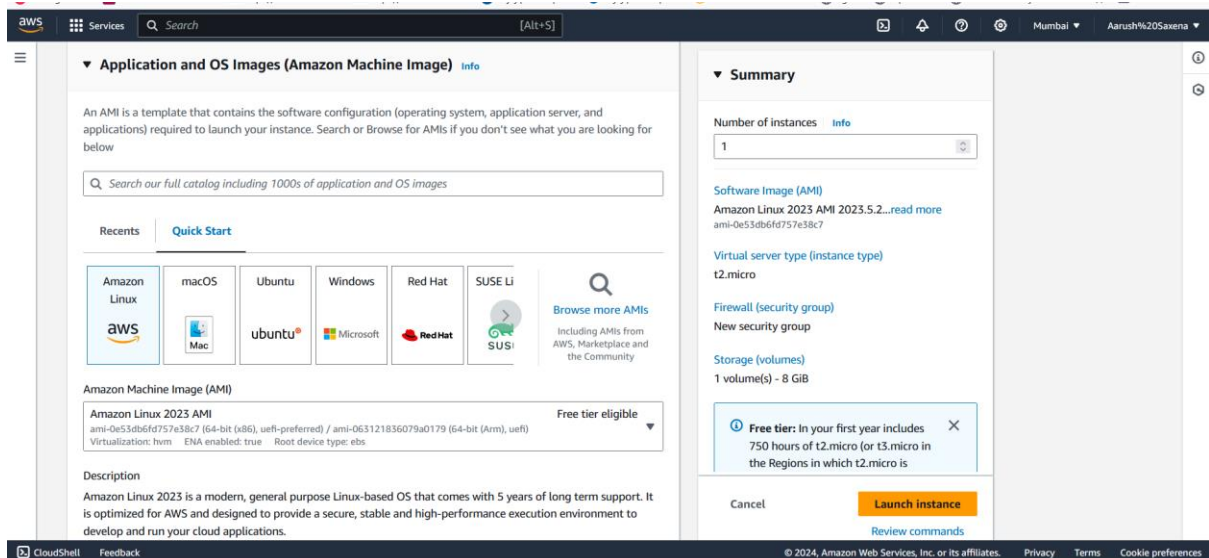
If you have ever made a instance in that region all instances will be shown in this window



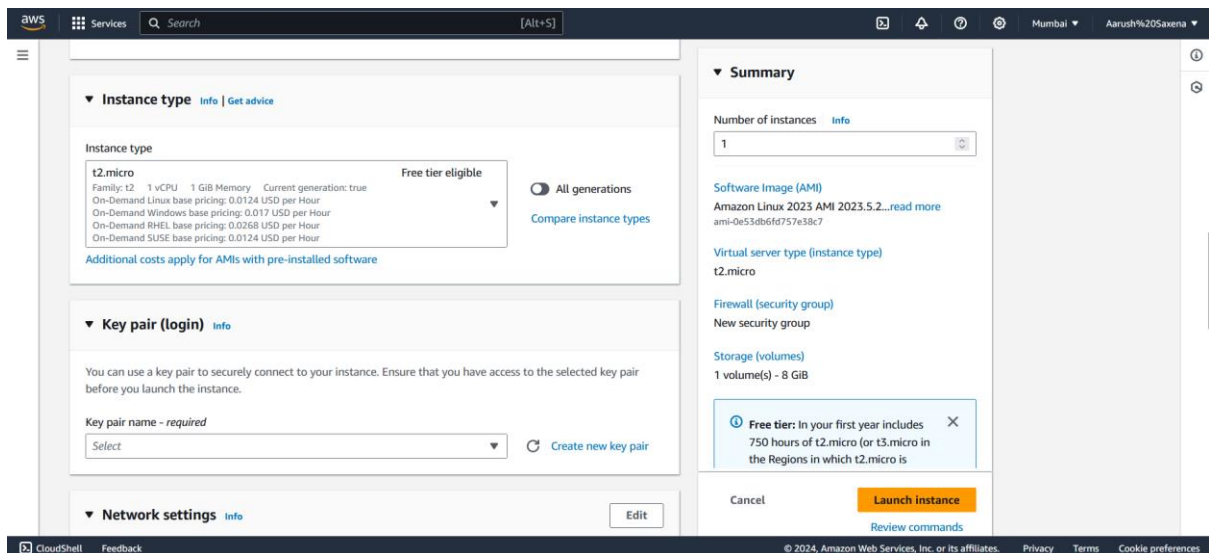
Click on launch instance to make a new instance

As you click on Launch instance a window will appear like this as shown in image given below

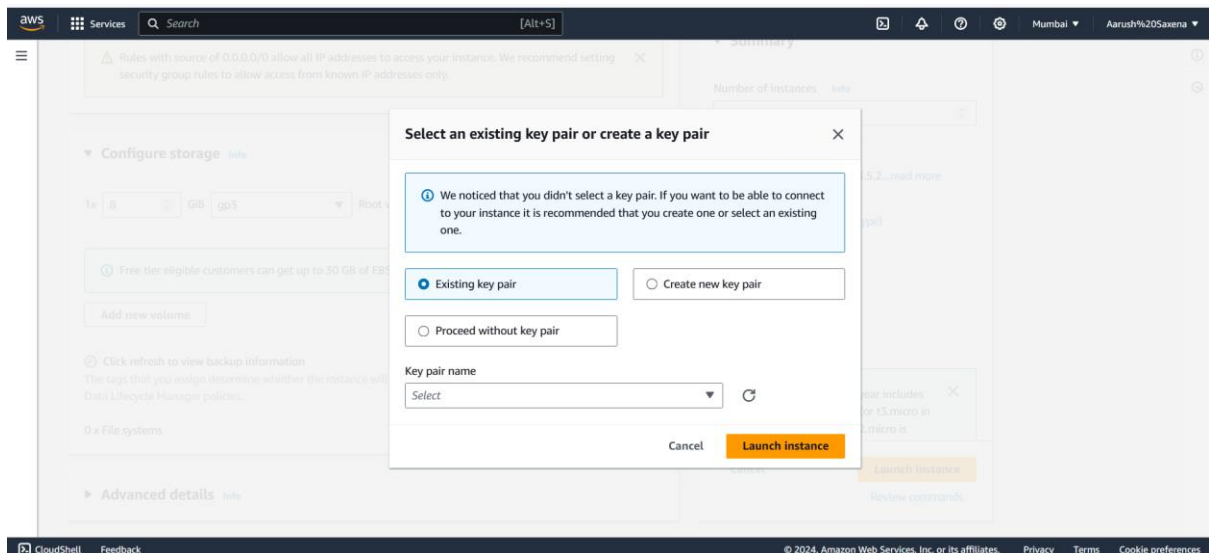
And there you can name your instance as your wish and choose your suitable instance's Operating system to work on it



Choose instance type as your wish or as your requirement



After 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

Select an existing key pair or create a key pair

We noticed that you didn't select a key pair. If you want to be able to connect to your instance it is recommended that you create one or select an existing one.

☐ Existing key pair

☒ Create new key pair

☐ Proceed without key pair

Key pair name

Key pairs allow you to connect to your instance securely.

Enter key pair name

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA

RSA encrypted private and public key pair

☐ ED25519

ED25519 encrypted private and public key pair

Private key file format

☒ .pem

For use with OpenSSH

☐ .ppk

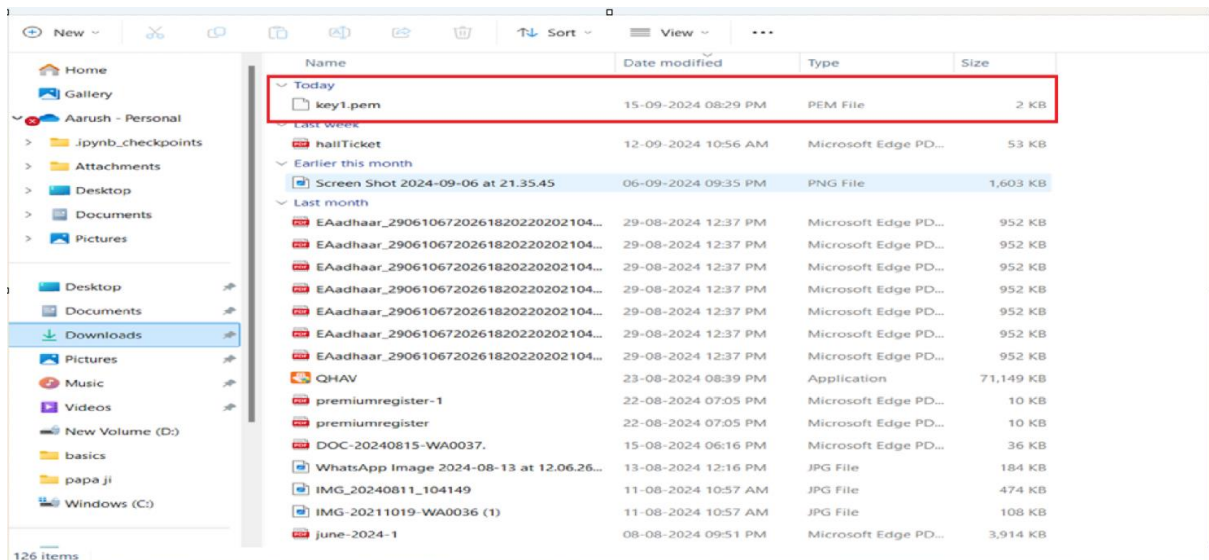
For use with PuTTY

When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

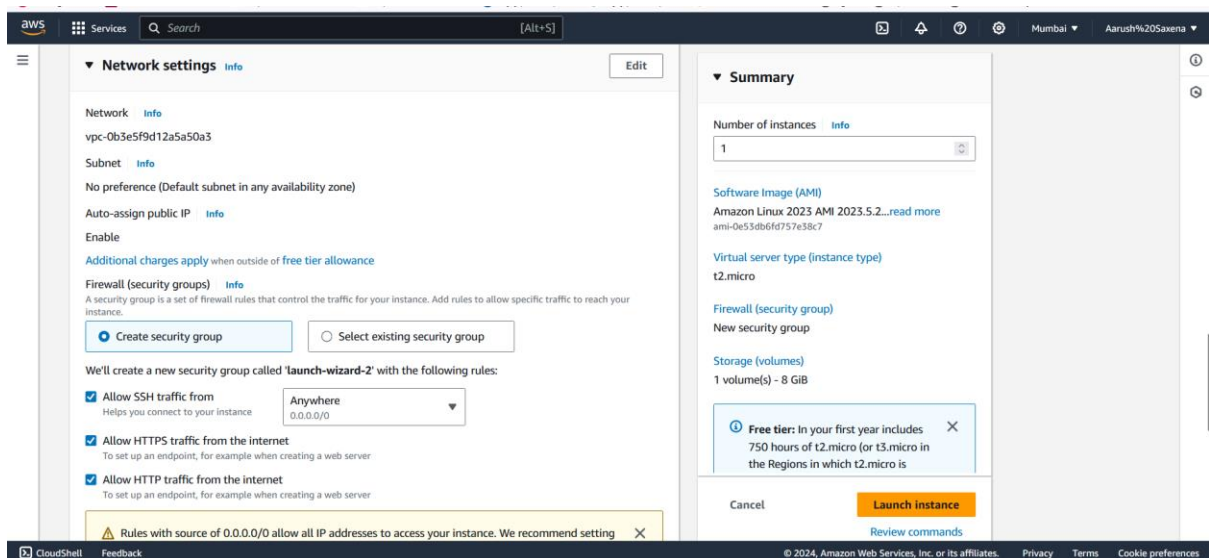
Cancel

Launch instance

As I save a key pair on my downloads folder it will appear like this

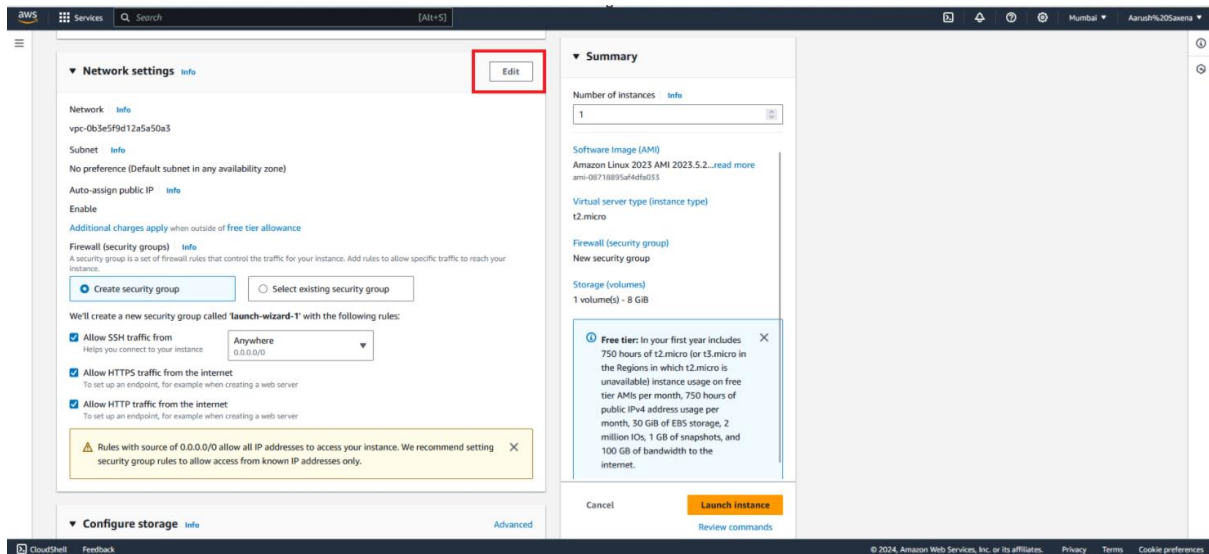


After that remember to allow HTTPS, traffic from the internet option so that you can host your website on internet

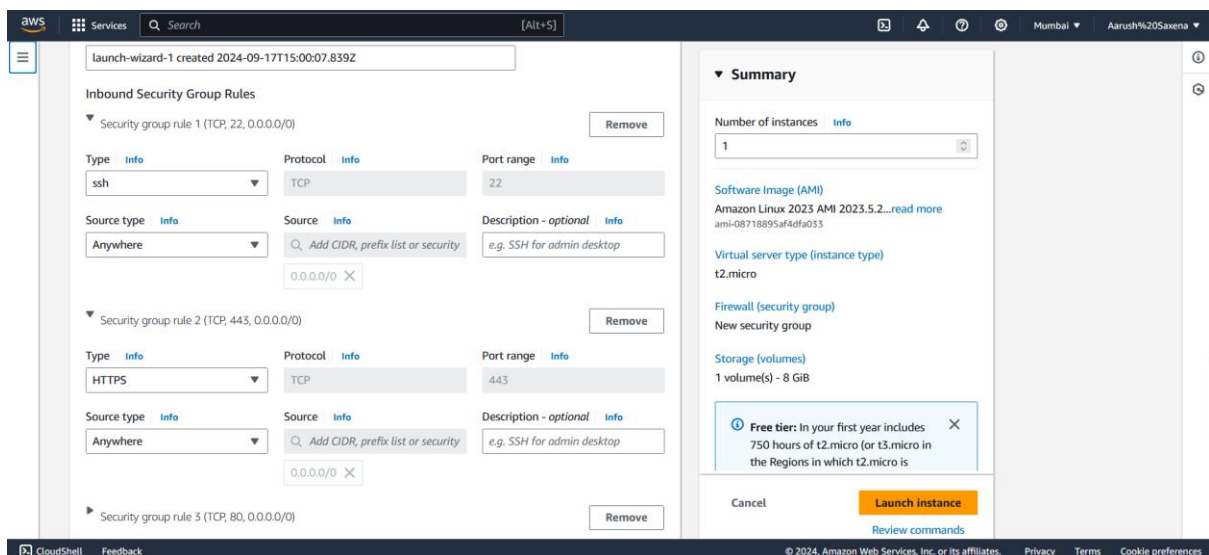


Leave other settings to default settings and Launch instance

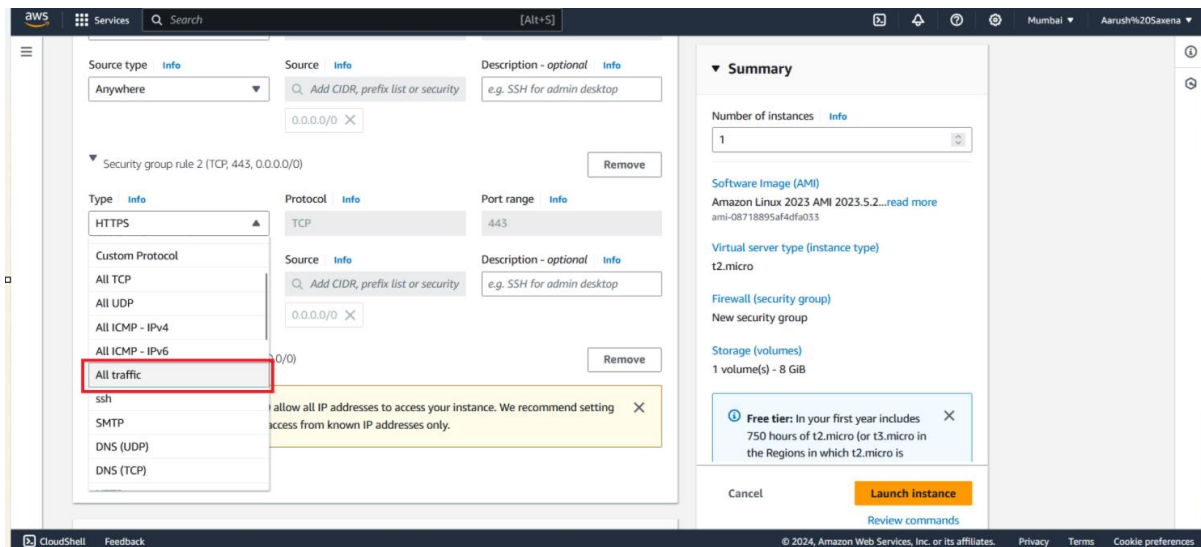
Click on edit option of Network settings



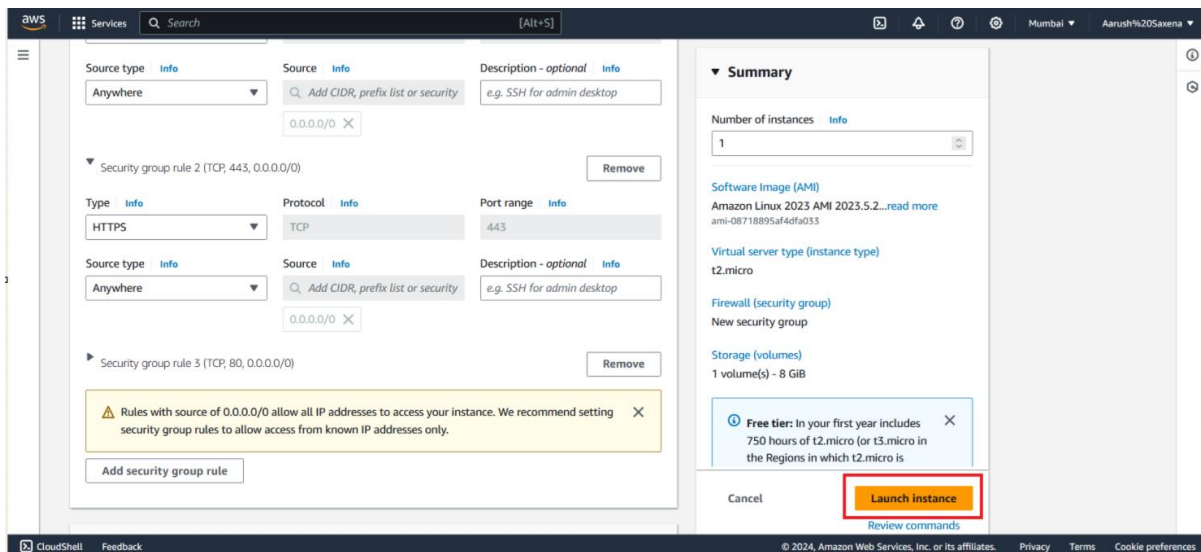
By default it shows options like this image given below



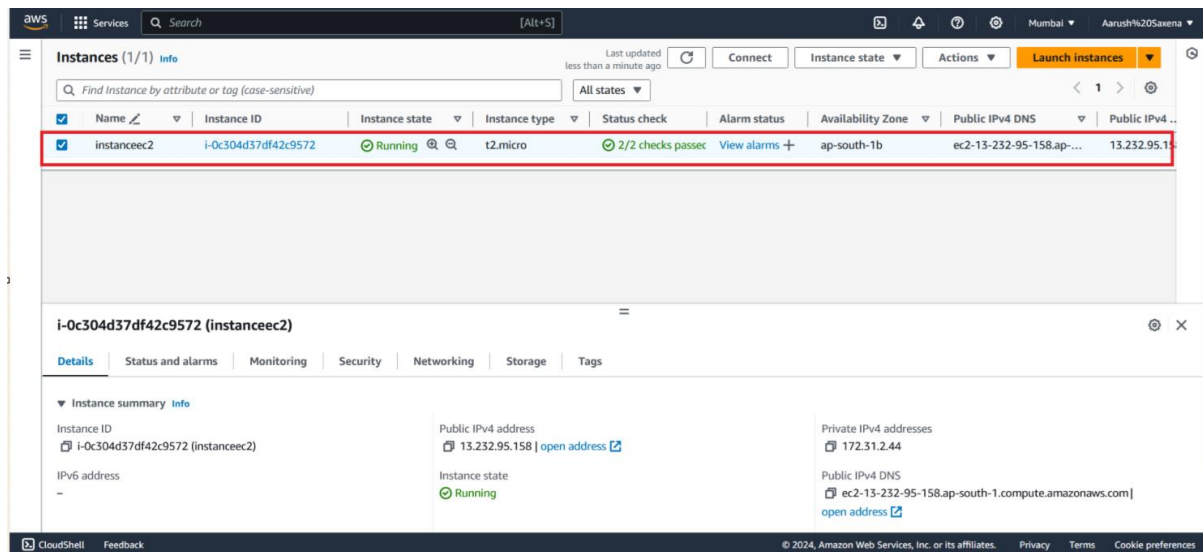
And now we have to change types so that we can allow all traffics



After that click on launch instances

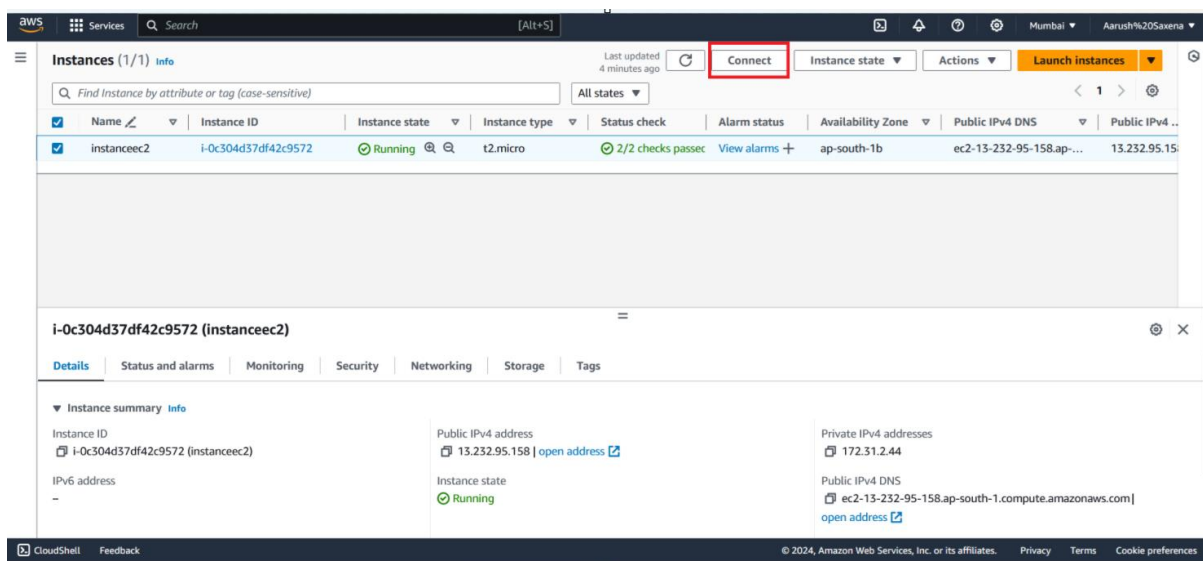


Your instance now has been created

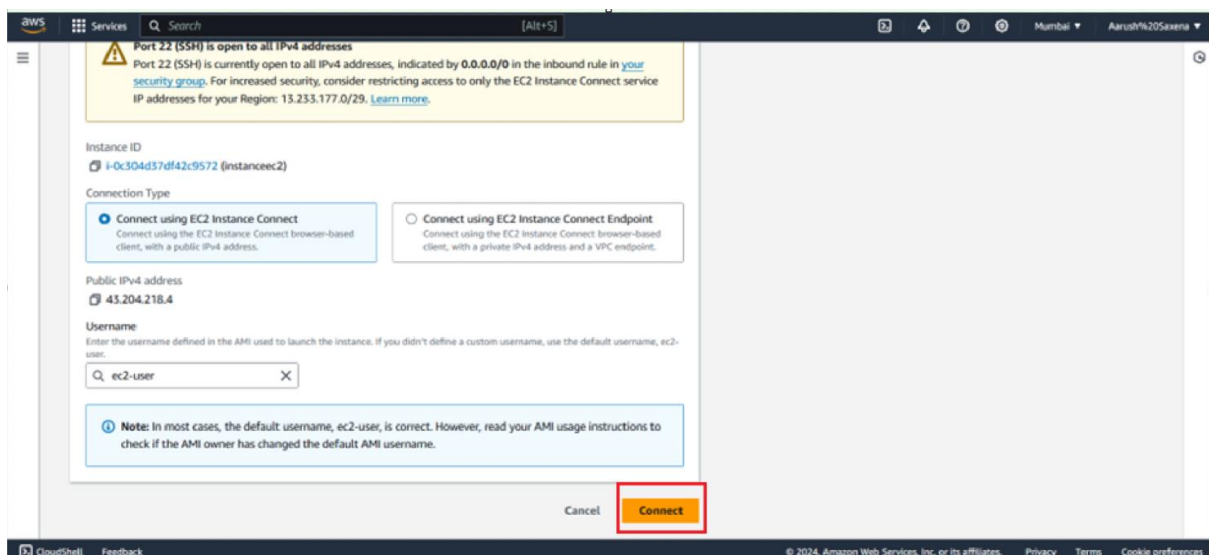
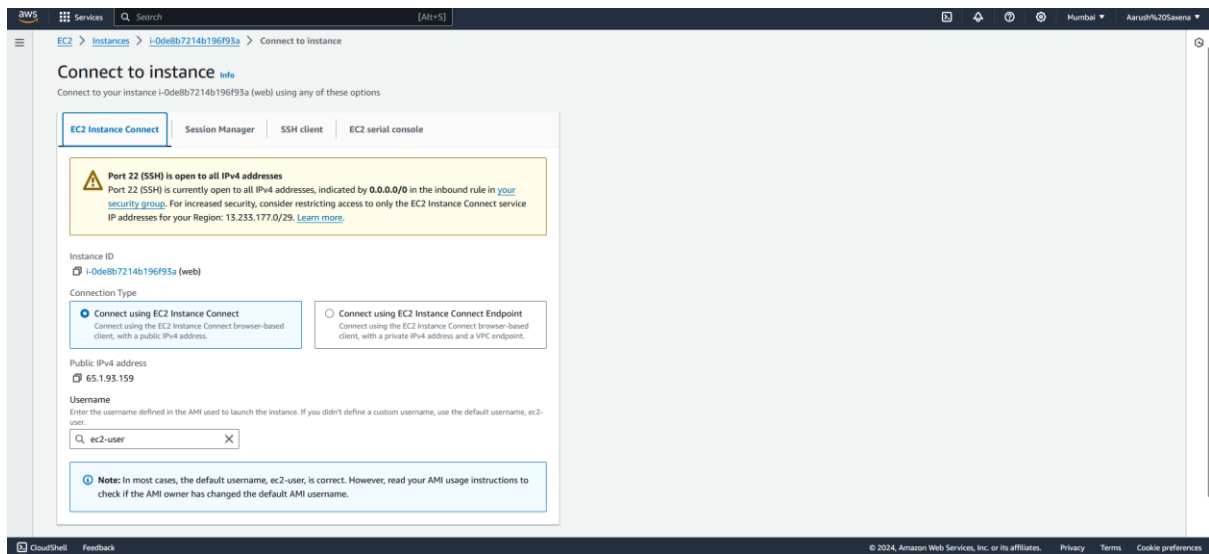


Now you can connect it through cmd, terminal, windows powershell and through aws ec2 connect.

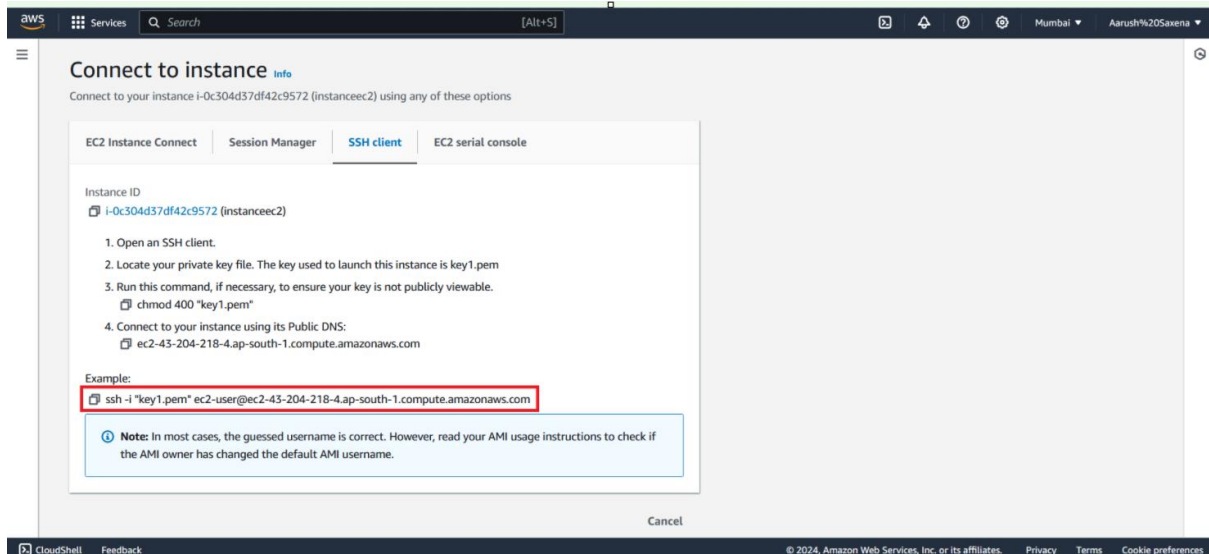
Now select your instance and click on connect button



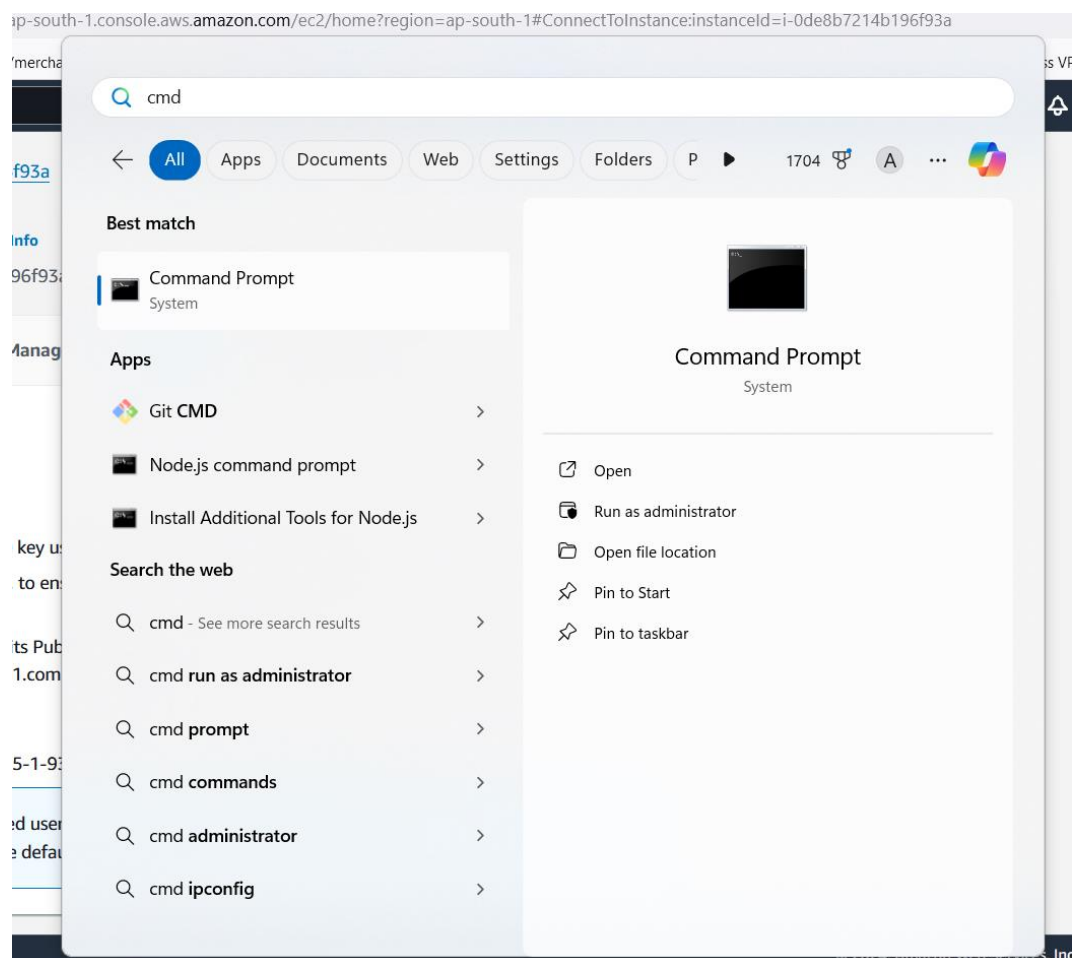
After clicking it shows like this as in the picture given below



Or we are going to connect it through cmd



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



As I downloaded my key in downloads directory go to there

```
Command Prompt
Microsoft Windows [Version 10.0.22631.3880]
(c) Microsoft Corporation. All rights reserved.

C:\Users\AARUSH>dir
```

```
Command Prompt

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
14-09-2023  20:51             25 .gitconfig
24-12-2023  18:06             20 .lessht
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

```
Command Prompt
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_0000008900678020231116123310_08052024135755.pdf
EAadhaar_0000008900678020231116123310_0805202414521.pdf
EAadhaar_1007606740074220110704141852_08052024123811.pdf
EAadhaar_2189123589095020170927133710_0505202413405.pdf
'EAadhaar_2906106720261820220202104000_29082024122450 (1).pdf'
'EAadhaar_2906106720261820220202104000_29082024122450 (2).pdf'
'EAadhaar_2906106720261820220202104000_29082024122450 (3).pdf'
'EAadhaar_2906106720261820220202104000_29082024122450 (4).pdf'
'EAadhaar_2906106720261820220202104000_29082024122450 (5).pdf'
```

```
Command Prompt
jdk-20_windows-x64_bin.exe
june-2024-1.pdf
june-2024.pdf
kali-linux-2023.2-vmware-amd64
kali-linux-2023.2-vmware-amd64.7z
kali-linux-2023.2a-installer-amd64.iso
'kanak gupta.docx.docx'
key1.pem
'kritika aadhar.pdf'
'kritika sign_page-0001(1).jpg'
'kritika sign_page-0001(2).jpg'
'kritika sign_page-0001.jpg'
kritika_aadhar_1.jpg
mingw-get-setup.exe
mysql-workbench-community-8.0.36-winx64.msi
node-v20.14.0-x64.msi
offlineaadhaar20240508071108952.zip
premiumregister-1.pdf
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 receipt.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
```

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

As we entered to it type `sudo su` to get access of super user

```
ec2-user@ip-172-31-3-216:~  
premiumregister-1.pdf  
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_receipt'.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:
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

After that type command `yum update -y` to update it

```
root@ip-172-31-3-216:/home/ X + v  
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_receipt.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  
## \#####\  
### \#####|  
#### \|/  
      V# -->  
  
#####  
##### /--  
     |/_/m/'
```

```
[ec2-user@ip-172-31-3-216 ~]$ sudo su  
[root@ip-172-31-3-216 ec2-user]# yum update -y
```

Now you can install nginx or httpd to use the services we are going with httpd

```
root@ip-172-31-3-216:/home/ + x
```

```
sanjaykumarsaxenaphoto.jpg  
sanjaykumarsaxenasignature.jpg  
signature.jpg  
'upasana_receipt.pdf'  
upasana_auto_x2.jpg
```

```
C:\Users\AARUSHD\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  
~~ \_#####  
~~ \_###|  
~~ \#/ ---  
~~ \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
```

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

```

Installing      : httpd-2.4.62-1.amzn2023.x86_64                                12/12
Running scriptlet: httpd-2.4.62-1.amzn2023.x86_64                                12/12
Verifying       : apr-1.7.2-2.amzn2023.0.2.x86_64                               1/12
Verifying       : apr-util-1.6.3-1.amzn2023.0.1.x86_64                           2/12
Verifying       : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64                   3/12
Verifying       : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch               4/12
Verifying       : httpd-2.4.62-1.amzn2023.x86_64                                5/12
Verifying       : httpd-core-2.4.62-1.amzn2023.x86_64                            6/12
Verifying       : httpd-filesystem-2.4.62-1.amzn2023.noarch                       7/12
Verifying       : httpd-tools-2.4.62-1.amzn2023.x86_64                           8/12
Verifying       : libbrotli-1.0.9-4.amzn2023.0.2.x86_64                          9/12
Verifying       : mailcap-2.1.49-3.amzn2023.0.3.noarch                           10/12
Verifying       : mod_http2-2.0.27-1.amzn2023.0.3.x86_64                         11/12
Verifying       : mod_lua-2.4.62-1.amzn2023.x86_64                               12/12

Installed:
apr-1.7.2-2.amzn2023.0.2.x86_64                                apr-util-1.6.3-1.amzn2023.0.1.x86_64
apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64                  generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
httpd-2.4.62-1.amzn2023.x86_64                                  httpd-core-2.4.62-1.amzn2023.x86_64
httpd-filesystem-2.4.62-1.amzn2023.noarch                       httpd-tools-2.4.62-1.amzn2023.x86_64
libbrotli-1.0.9-4.amzn2023.0.2.x86_64                          mailcap-2.1.49-3.amzn2023.0.3.noarch
mod_http2-2.0.27-1.amzn2023.0.3.x86_64                         mod_lua-2.4.62-1.amzn2023.x86_64

Complete!
[root@ip-172-31-3-216 ec2-user]# systemctl status httpd
o httpd.service - The Apache HTTPD Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
   Active: inactive (dead)
     Docs: man:httpd.service(8)
[root@ip-172-31-3-216 ec2-user]#

```


Now to turn on the server we have to type this command

```
systemctl start httpd
```

```

root@ip-172-31-3-216:/home/  X  +  v
Installing                : httpd-2.4.62-1.amzn2023.x86_64                12/12
Running scriptlet        : httpd-2.4.62-1.amzn2023.x86_64                12/12
Verifying                 : apr-1.7.2-2.amzn2023.0.2.x86_64              1/12
Verifying                 : apr-util-1.6.3-1.amzn2023.0.1.x86_64          2/12
Verifying                 : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64  3/12
Verifying                 : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 4/12
Verifying                 : httpd-2.4.62-1.amzn2023.x86_64                5/12
Verifying                 : httpd-core-2.4.62-1.amzn2023.x86_64           6/12
Verifying                 : httpd-filesystem-2.4.62-1.amzn2023.noarch       7/12
Verifying                 : httpd-tools-2.4.62-1.amzn2023.x86_64          8/12
Verifying                 : libbrotli-1.0.9-4.amzn2023.0.2.x86_64         9/12
Verifying                 : mailcap-2.1.49-3.amzn2023.0.3.noarch          10/12
Verifying                 : mod_http2-2.0.27-1.amzn2023.0.3.x86_64         11/12
Verifying                 : mod_lua-2.4.62-1.amzn2023.x86_64              12/12

Installed:
apr-1.7.2-2.amzn2023.0.2.x86_64                                apr-util-1.6.3-1.amzn2023.0.1.x86_64
apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64                 generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
httpd-2.4.62-1.amzn2023.x86_64                                httpd-core-2.4.62-1.amzn2023.x86_64
httpd-filesystem-2.4.62-1.amzn2023.noarch                     httpd-tools-2.4.62-1.amzn2023.x86_64
libbrotli-1.0.9-4.amzn2023.0.2.x86_64                        mailcap-2.1.49-3.amzn2023.0.3.noarch
mod_http2-2.0.27-1.amzn2023.0.3.x86_64                        mod_lua-2.4.62-1.amzn2023.x86_64

Complete!
[root@ip-172-31-3-216 ec2-user]# systemctl status httpd
o httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
   Active: inactive (dead)
     Docs: man:httpd.service(8)

[root@ip-172-31-3-216 ec2-user]# systemctl start httpd

```

Now you can see that the services has been started

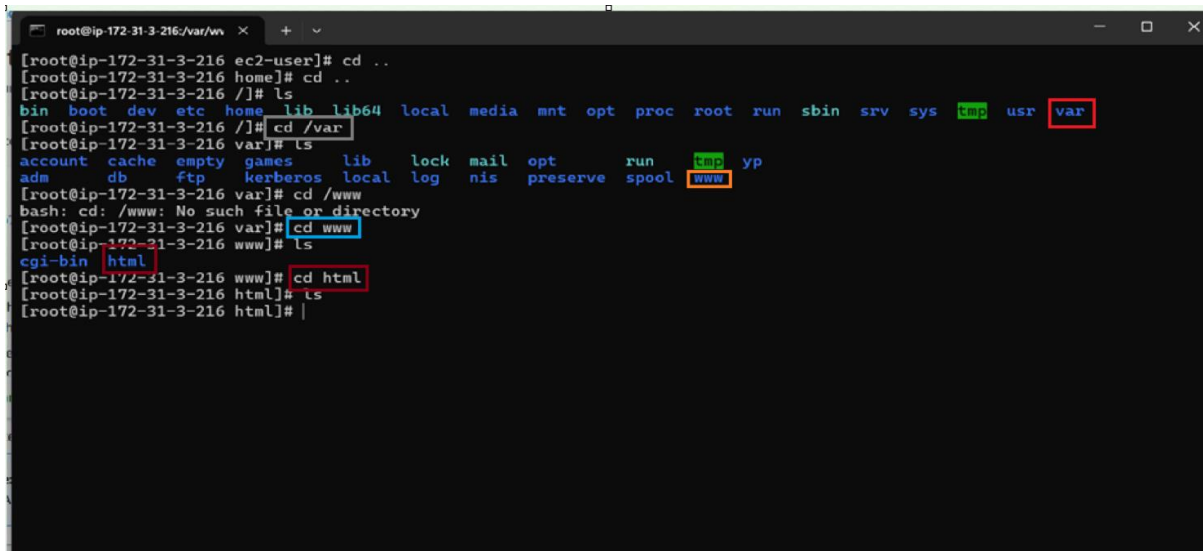
```

root@ip-172-31-3-216/home/ X + v
mod_http2-2.0.27-1.amzn2023.0.3.x86_64 mod_lua-2.4.62-1.amzn2023.x86_64

Complete!
[root@ip-172-31-3-216 ec2-user]# systemctl status httpd
o httpd.service - The Apache HTTP Server
  Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
  Active: inactive (dead)
  Docs: man:httpd.service(8)
[root@ip-172-31-3-216 ec2-user]# systemctl start httpd
[root@ip-172-31-3-216 ec2-user]# systemctl status httpd
• httpd.service - The Apache HTTP Server
  Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
  Active: active (running) since Sun 2024-09-15 15:17:56 UTC; 12s ago
  Docs: man:httpd.service(8)
Main PID: 26100 (httpd)
Status: "Total requests: 0; Idle/Busy workers 100/0; Requests/sec: 0; Bytes served/sec: 0 B/sec"
Tasks: 177 (limit: 1112)
Memory: 12.9M
CPU: 70ms
CGroup: /system.slice/httpd.service
├─26100 /usr/sbin/httpd -DFOREGROUND
├─26101 /usr/sbin/httpd -DFOREGROUND
├─26102 /usr/sbin/httpd -DFOREGROUND
├─26103 /usr/sbin/httpd -DFOREGROUND
└─26104 /usr/sbin/httpd -DFOREGROUND

Sep 15 15:17:56 ip-172-31-3-216.ap-south-1.compute.internal systemd[1]: Starting httpd.service - The Apache HTTP Server.
Sep 15 15:17:56 ip-172-31-3-216.ap-south-1.compute.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Sep 15 15:17:56 ip-172-31-3-216.ap-south-1.compute.internal httpd[26100]: Server configured, listening on: port 80
lines 1-19/19 (END)
```

Now we have to go var/www/html



```
root@ip-172-31-3-216:~$ cd ..
root@ip-172-31-3-216:~$ cd ..
root@ip-172-31-3-216:~$ ls
bin  boot  dev  etc  home  lib  lib64  local  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@ip-172-31-3-216:~$ cd /var
root@ip-172-31-3-216:/var$ ls
account  cache  empty  games  lib  lock  mail  opt  run  tmp  yp
adm      db      ftp    kerberos  local  log  nis  preserve  spool  www
root@ip-172-31-3-216:/var$ cd /www
bash: cd: /www: No such file or directory
root@ip-172-31-3-216:/var$ cd www
root@ip-172-31-3-216/www$ ls
cgi-bin  html
root@ip-172-31-3-216/www$ cd html
root@ip-172-31-3-216/html$ ls
root@ip-172-31-3-216/html$ |
```

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 and write our own code in it as I have multiple file so I need to install

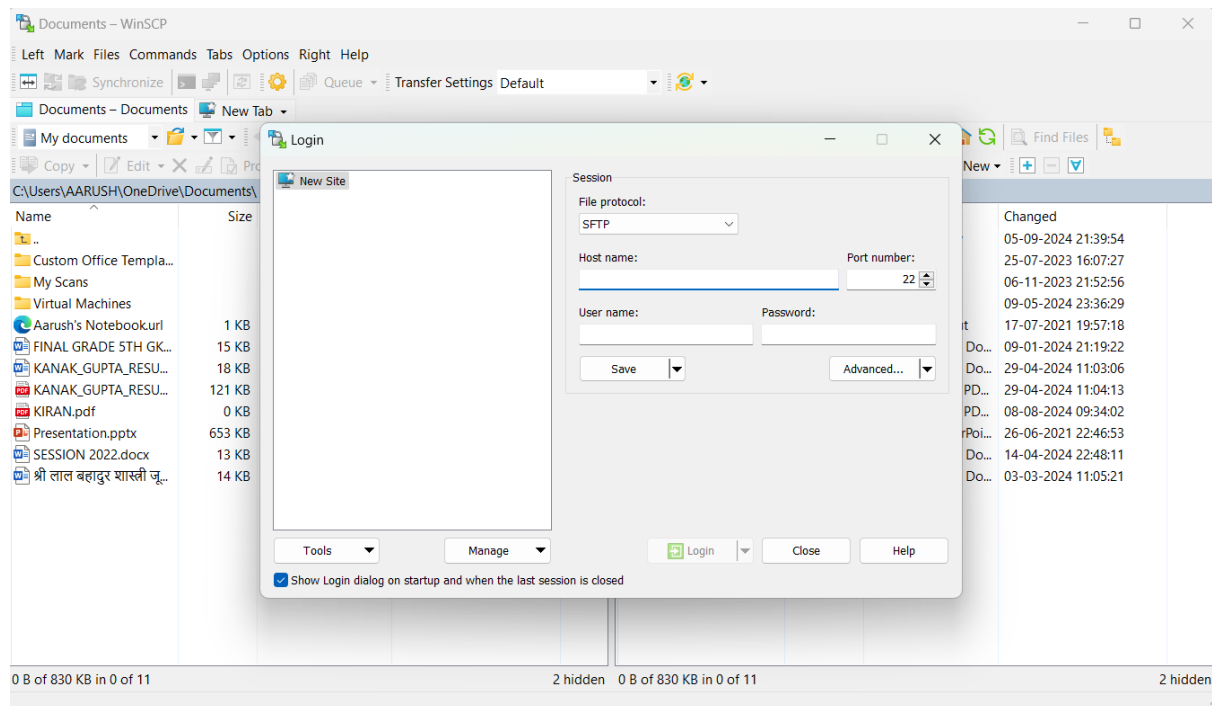
Two applications:-

- (1) Putty key gen
- (2) Win SCP

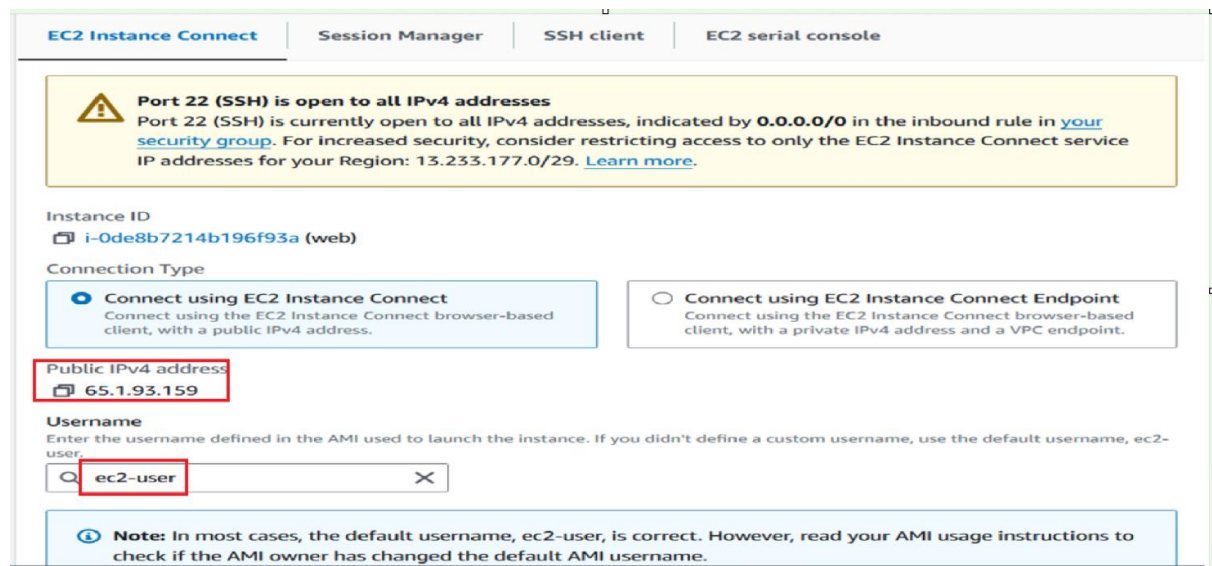
Putty key gen to generate password for win scp

And winscp helps to move multiple files from local system to remote system

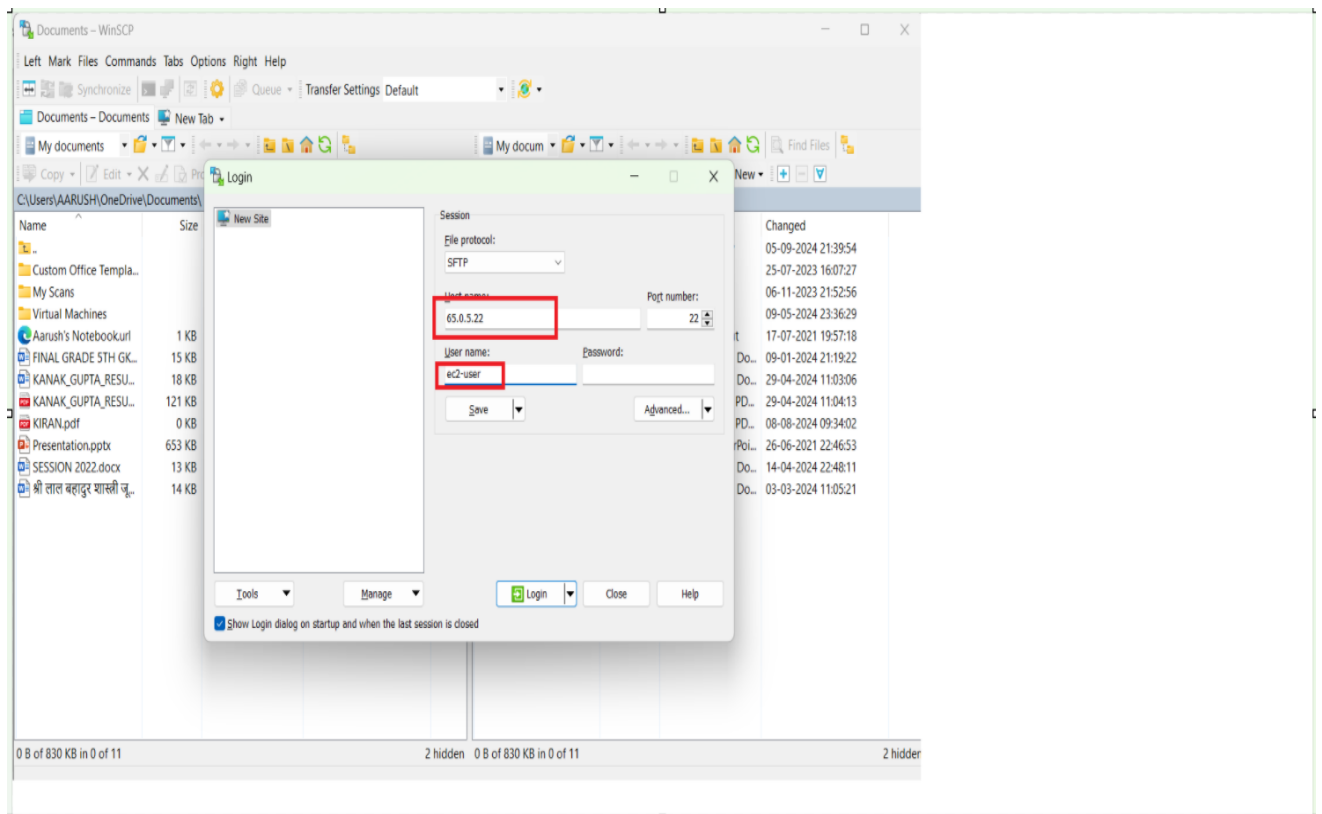
For multiple files to load



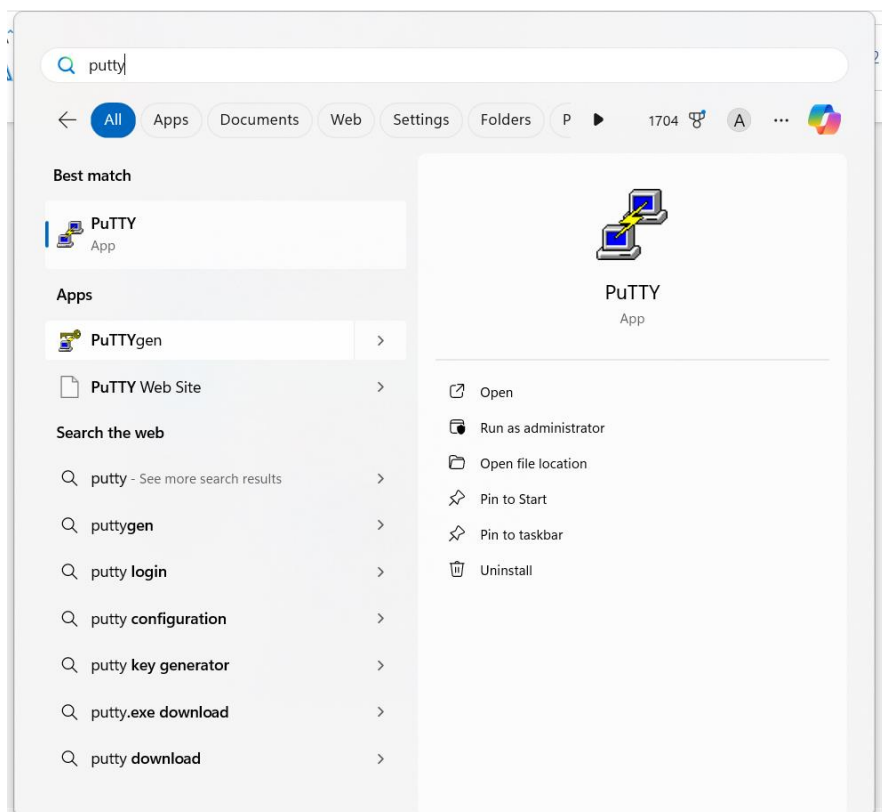
In this host name has to be ip of our instance and username also present there as shown in image given below

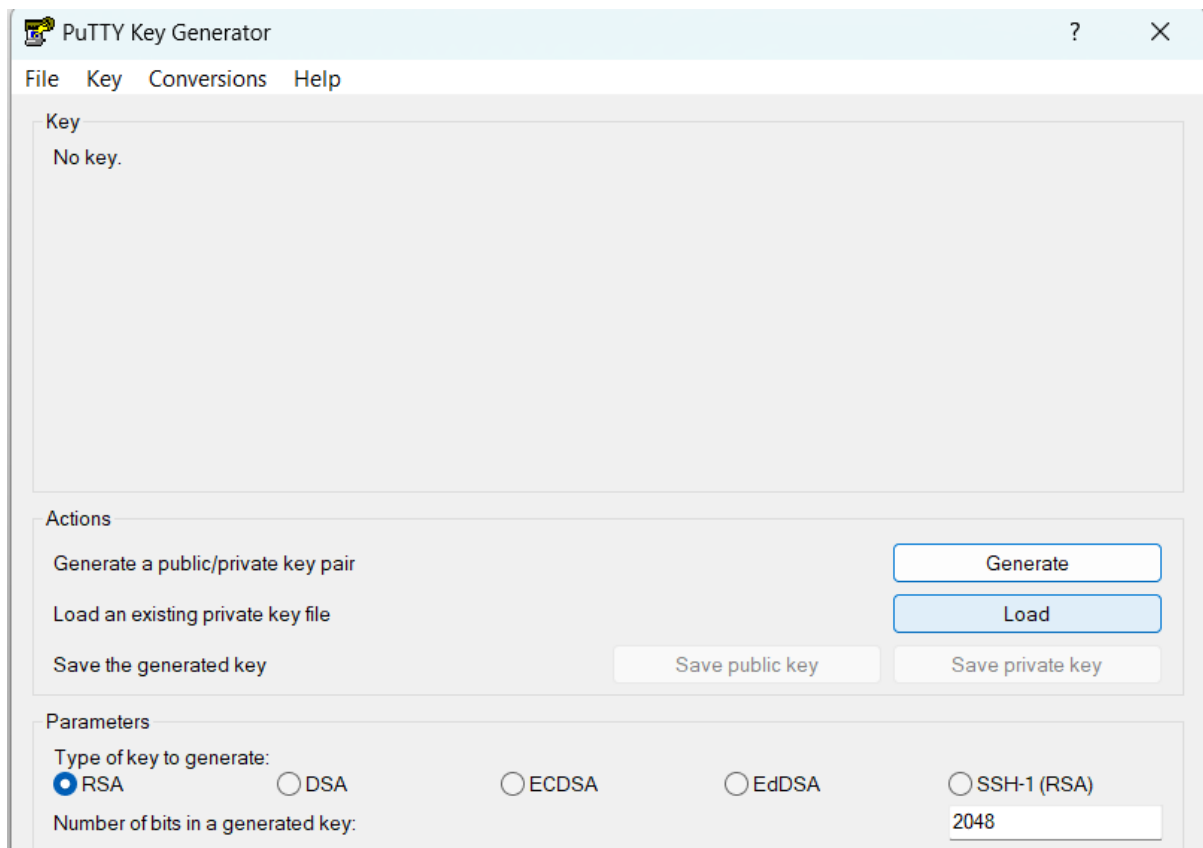


After that we need a password this time we use puttykeygen

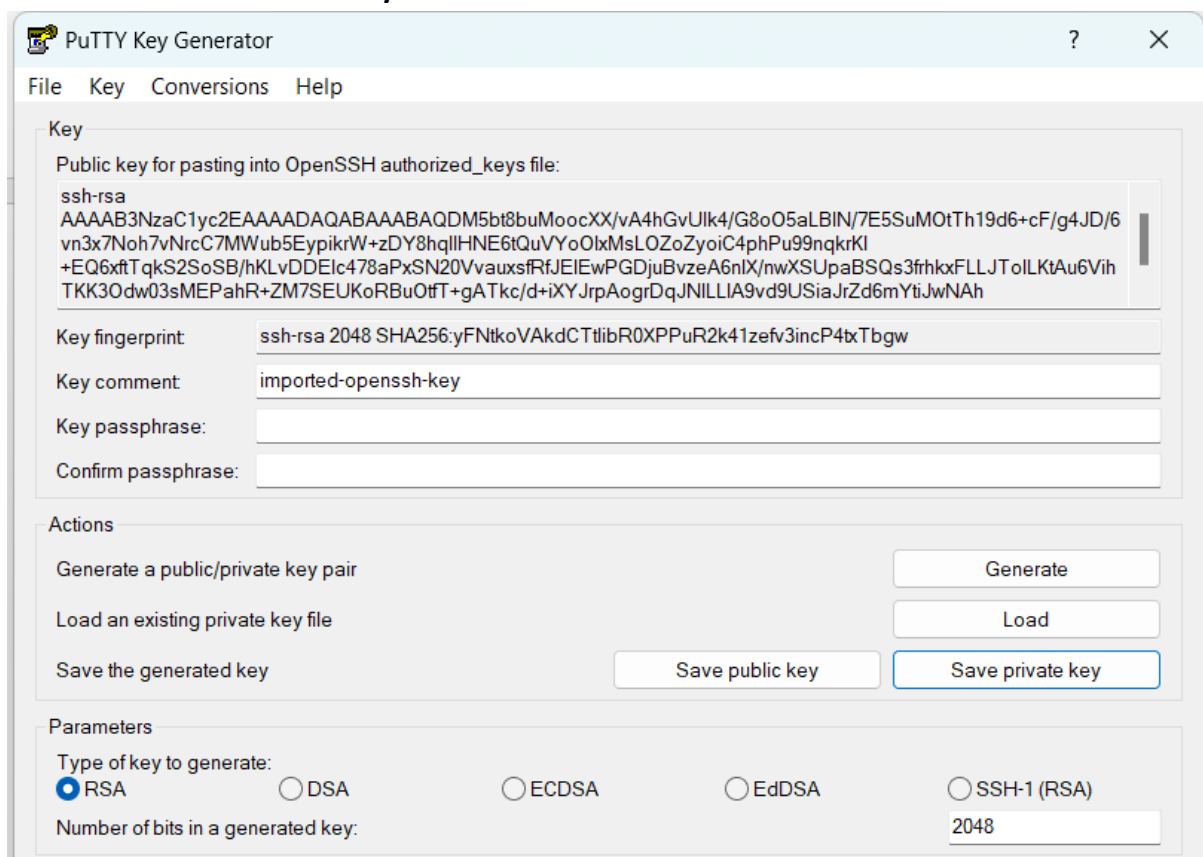


As it accept only putty file than we have to convert it into putt



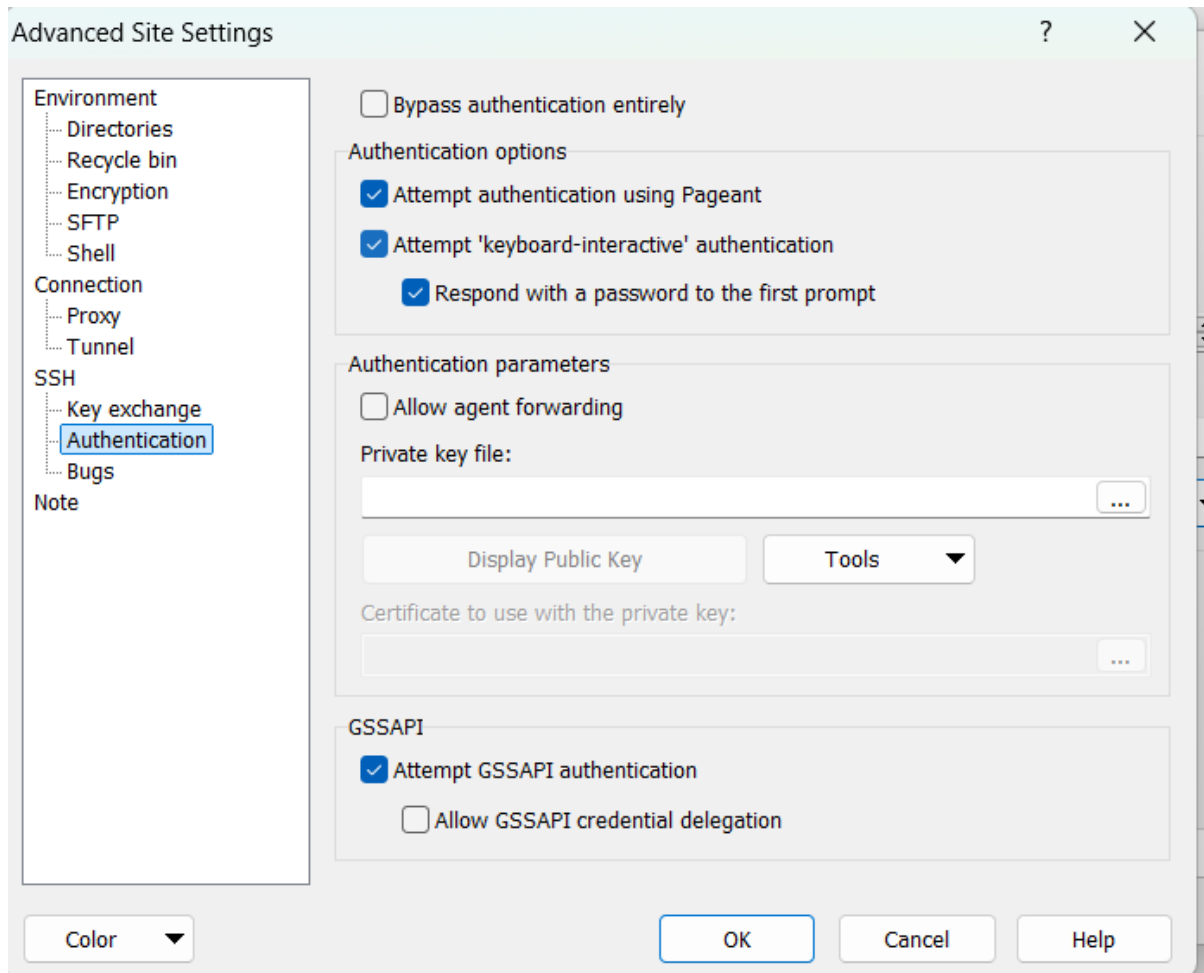


Now we have to load the key file downloaded in downloads folder in our local system and click on Load.



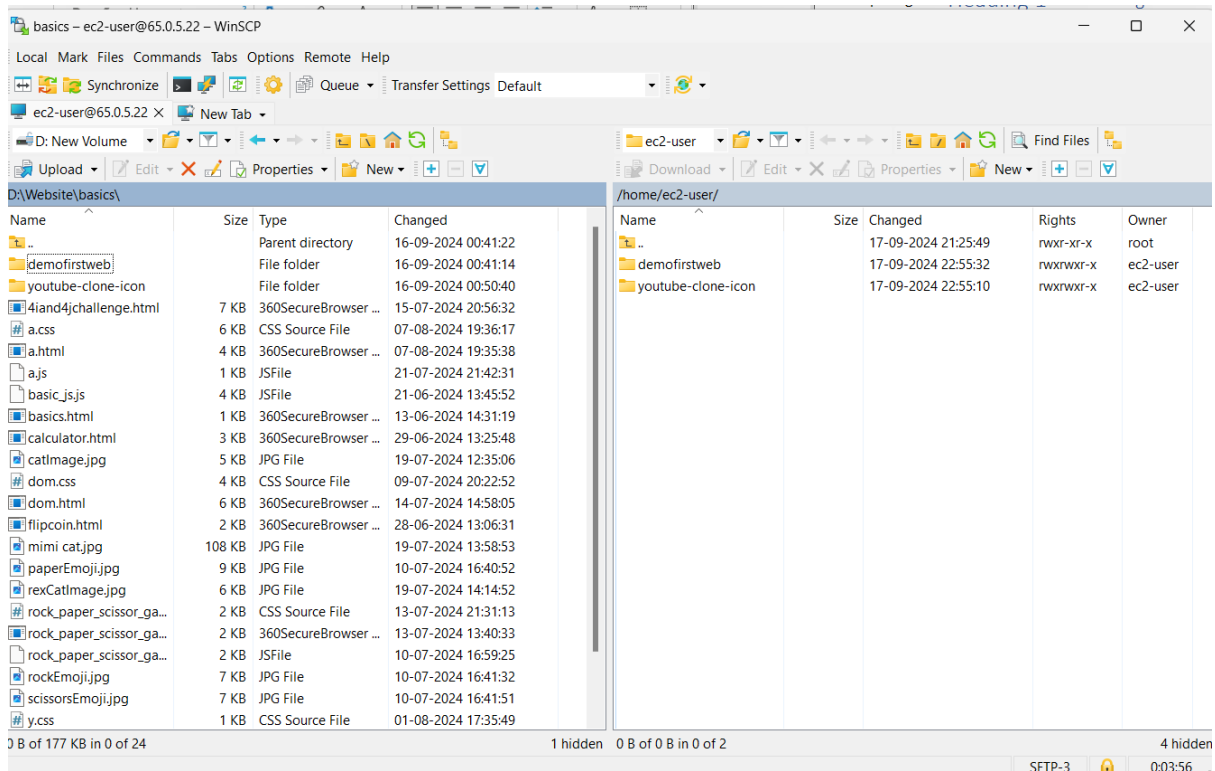
Save this file as Save private key

Then comeback to WinSCP click on Authentication and load file



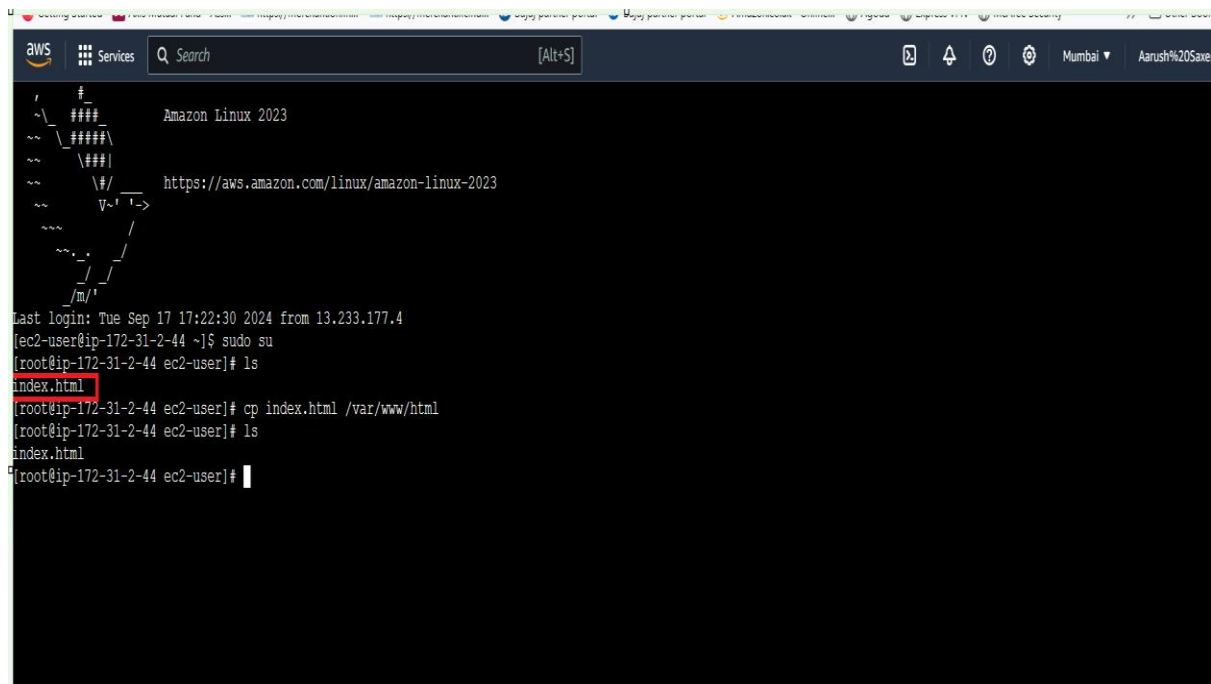
After that click ok and then click login

After than select the files



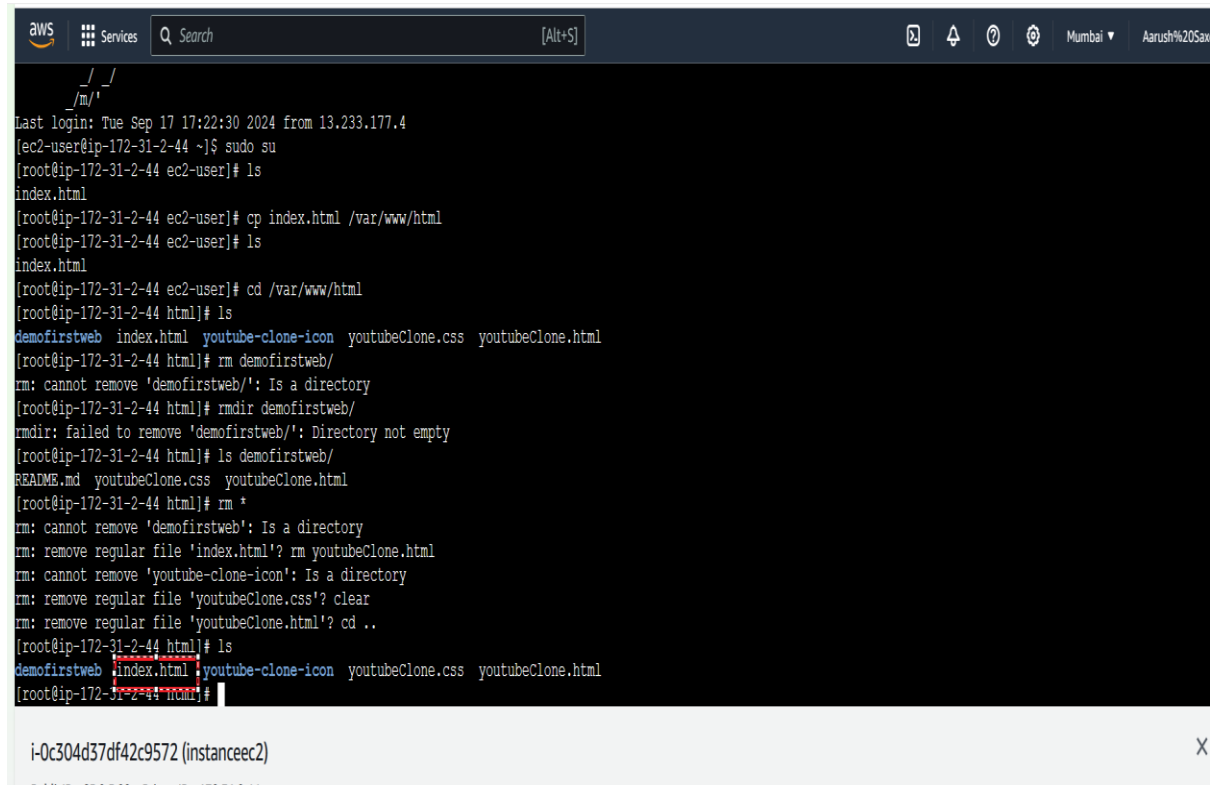
And simple drop and drag it

Now we will copy that files to this location var/www/html



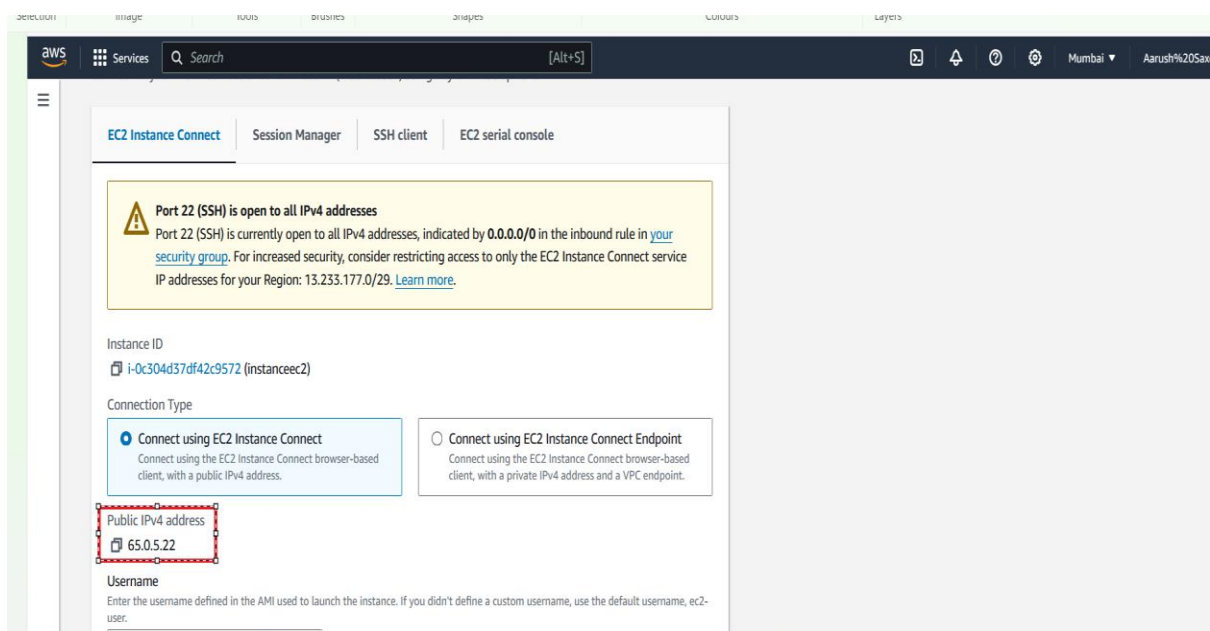
First our files shown in home dir inside it ec2-user and as we type ls command we can see our files

Now with help of cp (copy) command we will copy our files to this location var/www/html



```
./ /m/
Last login: Tue Sep 17 17:22:30 2024 from 13.233.177.4
[ec2-user@ip-172-31-2-44 ~]$ sudo su
[root@ip-172-31-2-44 ec2-user]# ls
index.html
[root@ip-172-31-2-44 ec2-user]# cp index.html /var/www/html
[root@ip-172-31-2-44 ec2-user]# ls
index.html
[root@ip-172-31-2-44 ec2-user]# cd /var/www/html
[root@ip-172-31-2-44 html]# ls
demofirstweb index.html youtube-clone-icon youtubeClone.css youtubeClone.html
[root@ip-172-31-2-44 html]# rm demofirstweb/
rm: cannot remove 'demofirstweb/': Is a directory
[root@ip-172-31-2-44 html]# rmdir demofirstweb/
rmdir: failed to remove 'demofirstweb/': Directory not empty
[root@ip-172-31-2-44 html]# ls demofirstweb/
README.md youtubeClone.css youtubeClone.html
[root@ip-172-31-2-44 html]# rm *
rm: cannot remove 'demofirstweb/': Is a directory
rm: remove regular file 'index.html'? rm youtubeClone.html
rm: cannot remove 'youtube-clone-icon': Is a directory
rm: remove regular file 'youtubeClone.css'? clear
rm: remove regular file 'youtubeClone.html'? cd ..
[root@ip-172-31-2-44 html]# ls
demofirstweb index.html youtube-clone-icon youtubeClone.css youtubeClone.html
[root@ip-172-31-2-44 html]#
```

Copy this ip and paste it in any browser



Now you can see your hoisted website

Connect to instance | EC2 | ap- X

EC2 Instance Connect

Document

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Chapter 1

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Chapter 2

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Chapter 3

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Chapter 4

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