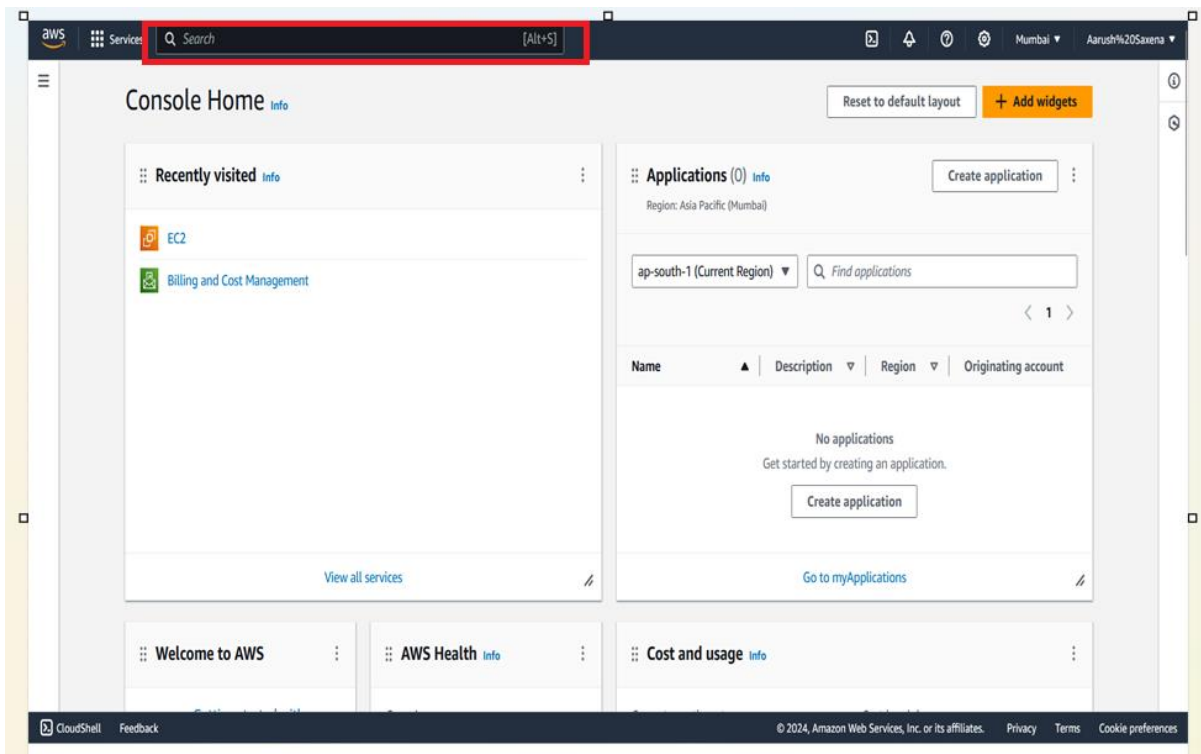
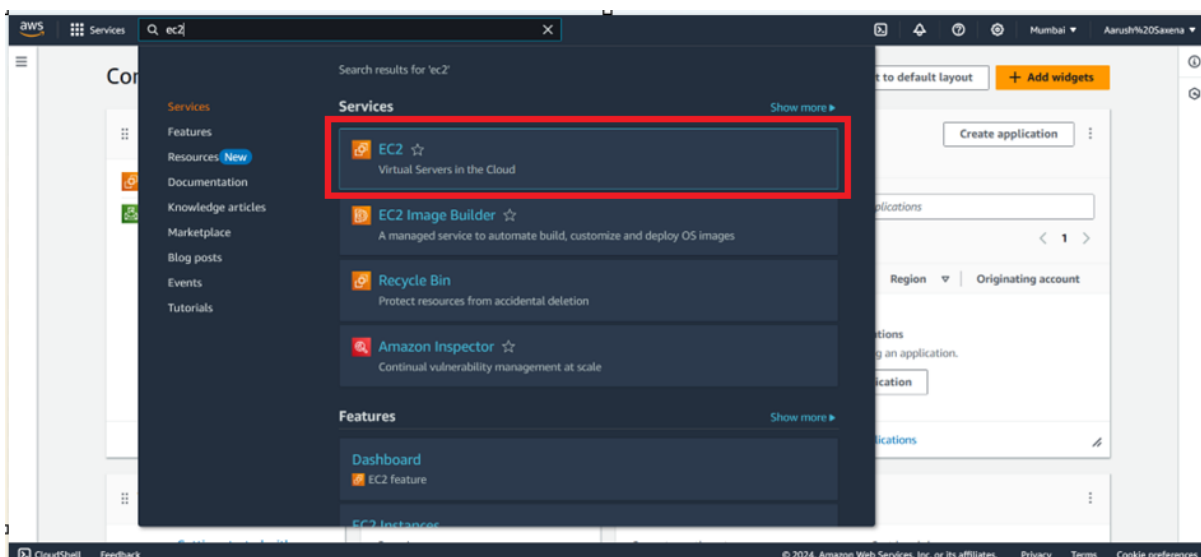


EC2(elastic compute cloud)

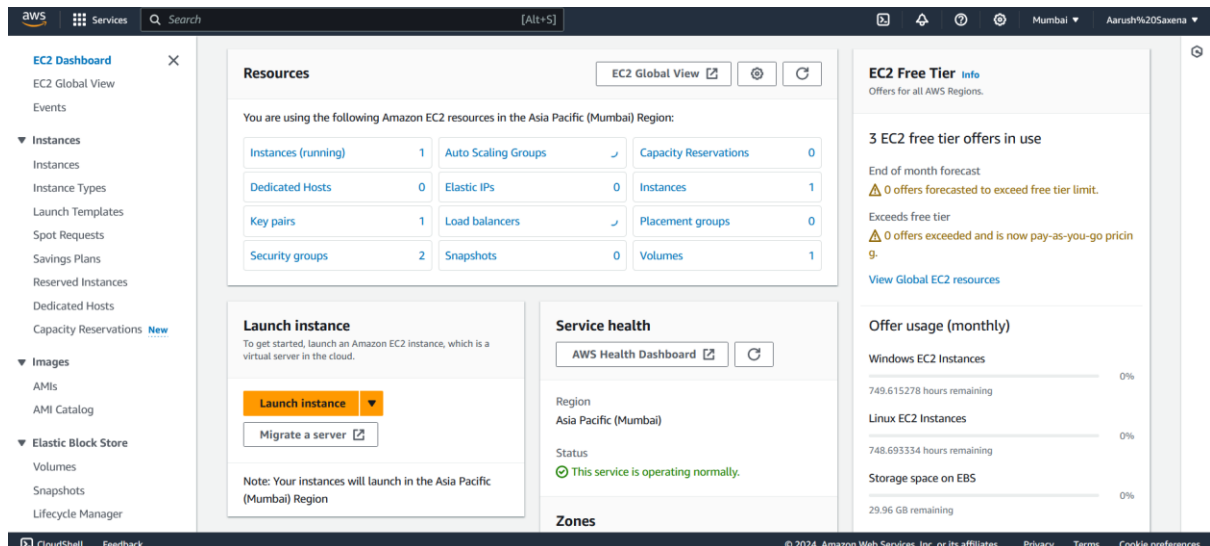
When we log-in to our aws account it will appear as shown in image given below



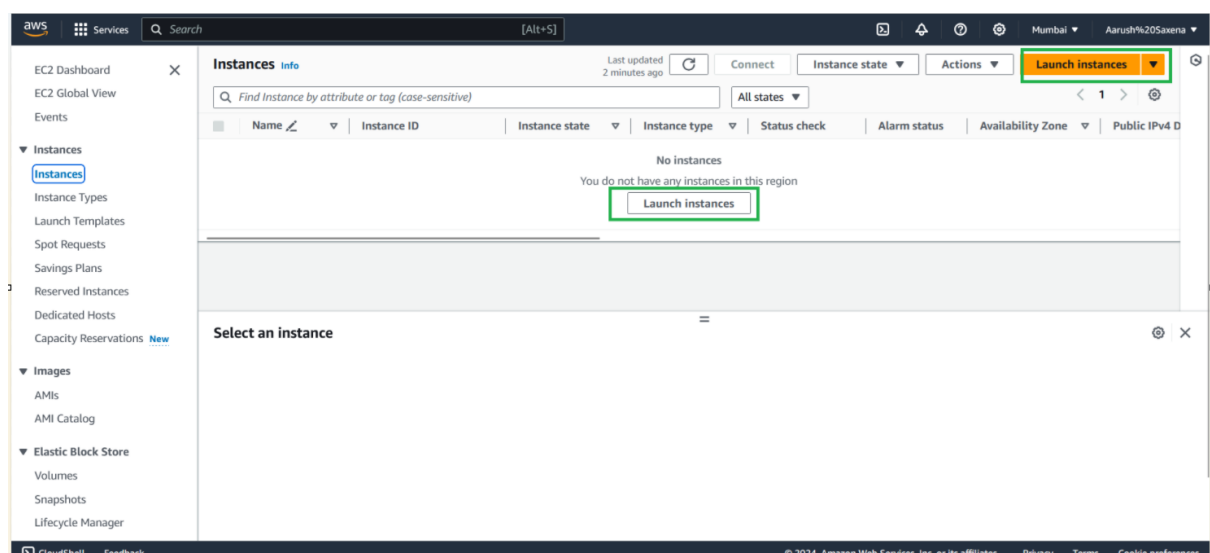
Step1: Click on searchbar, type EC2 and click on it



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

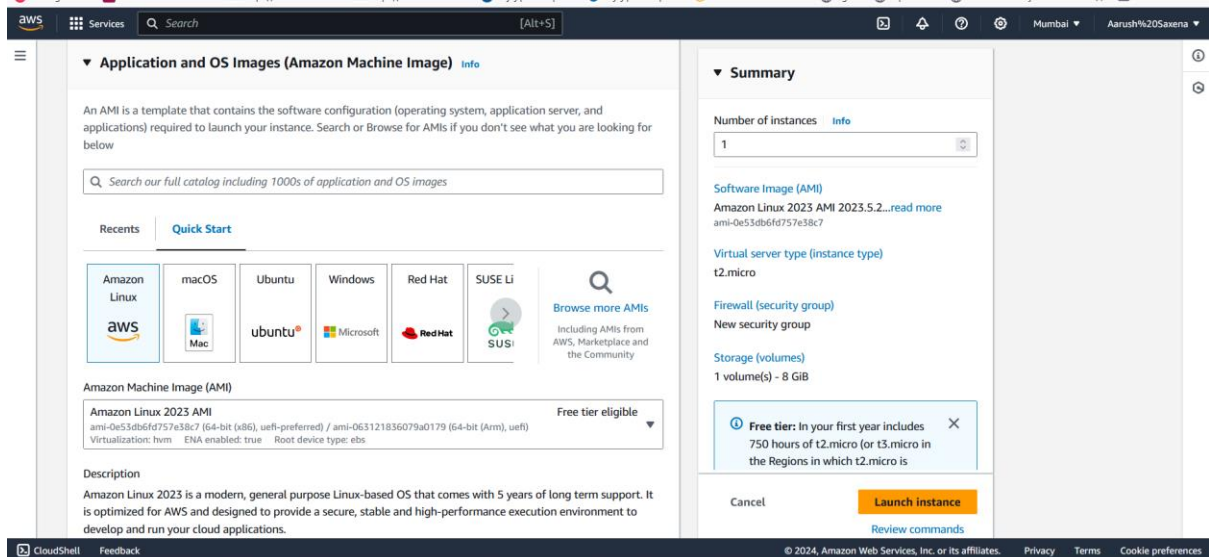


Step2: If you ever made an instance in that region all instances will appear in that region else same as shown as in image given below. Click on Launch Instance.

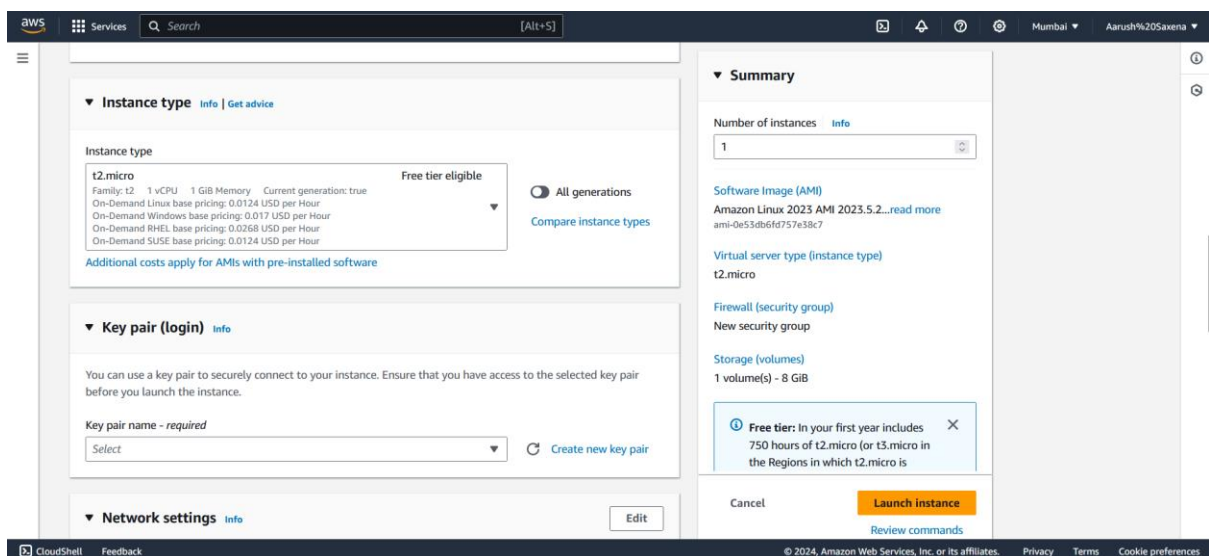


As you click on Launch instance a window will appear as shown in image given below .

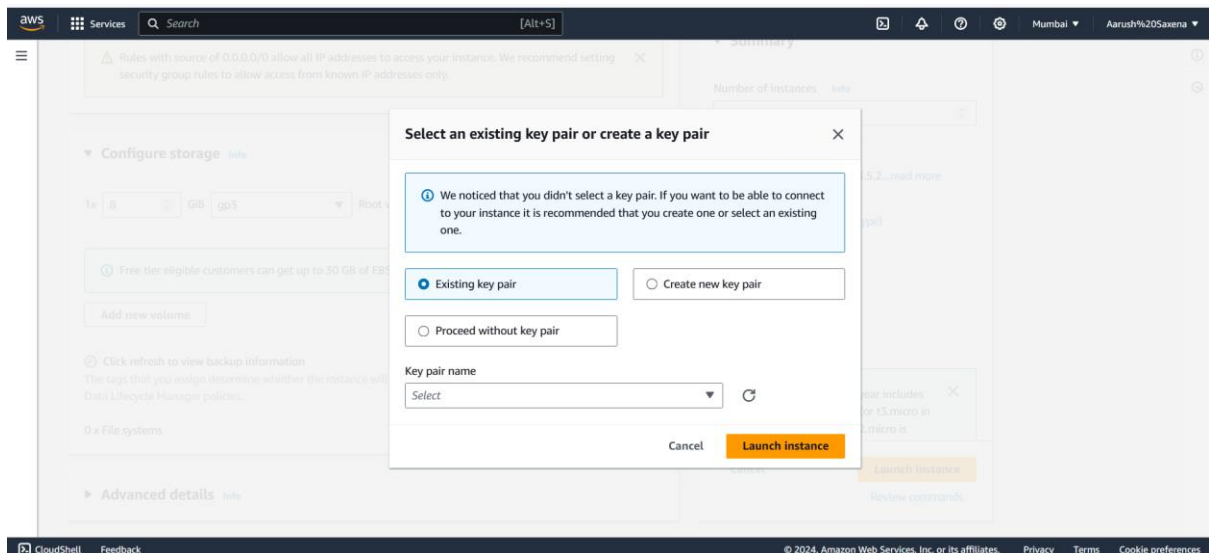
Step3: Name your instance as your wish and choose your suitable instance's Operating system to work on it



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



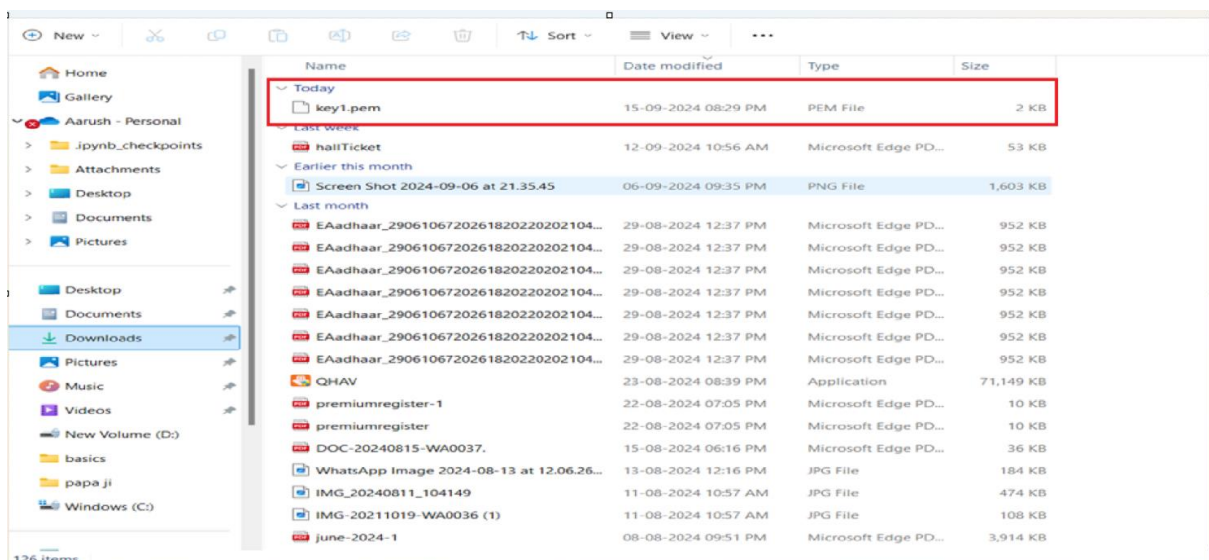
After that click on create new key pair and a window will appear as shown in image given below



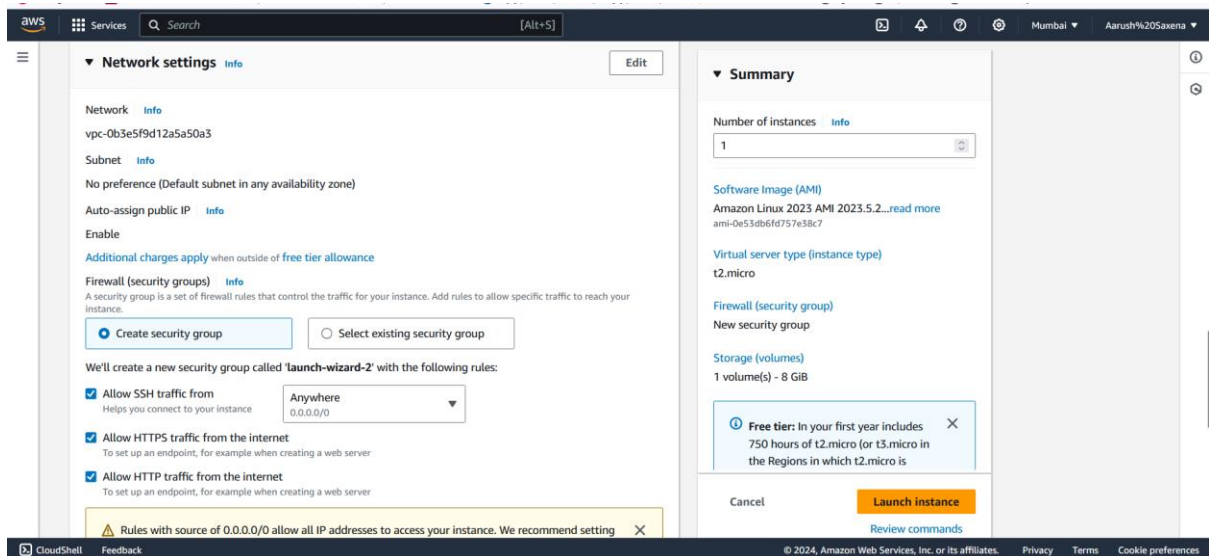
As I have an existing key pair, it's showing something like this as you don't have one click on create new key pair and leave other settings to default.

And remember it where you are saving it 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



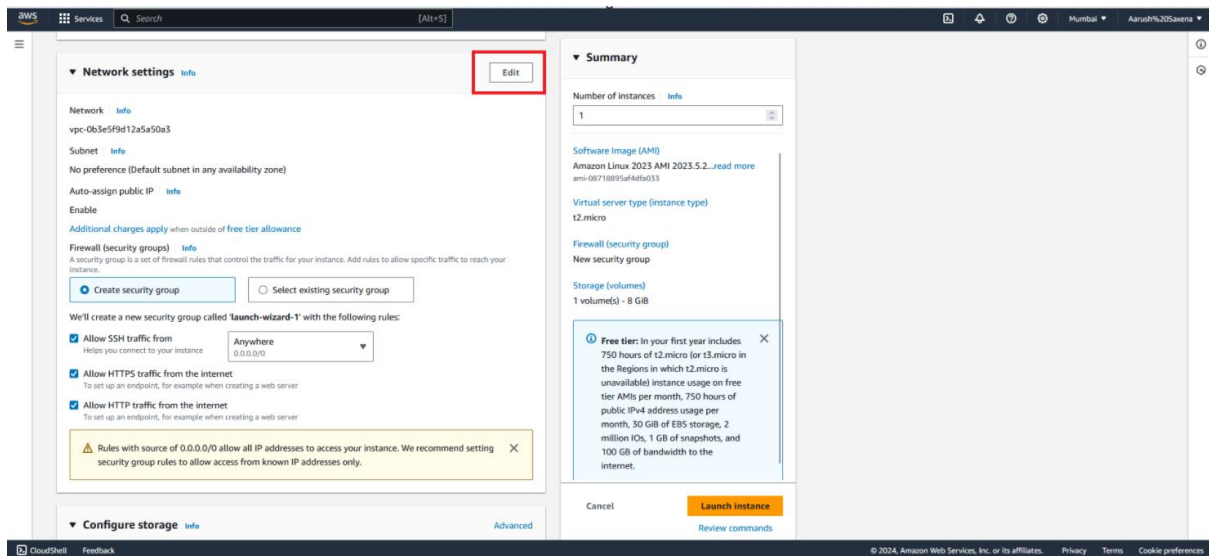
Step5: After that remember to allow HTTPS, traffic from the internet option so that you can host your website through internet on browsers



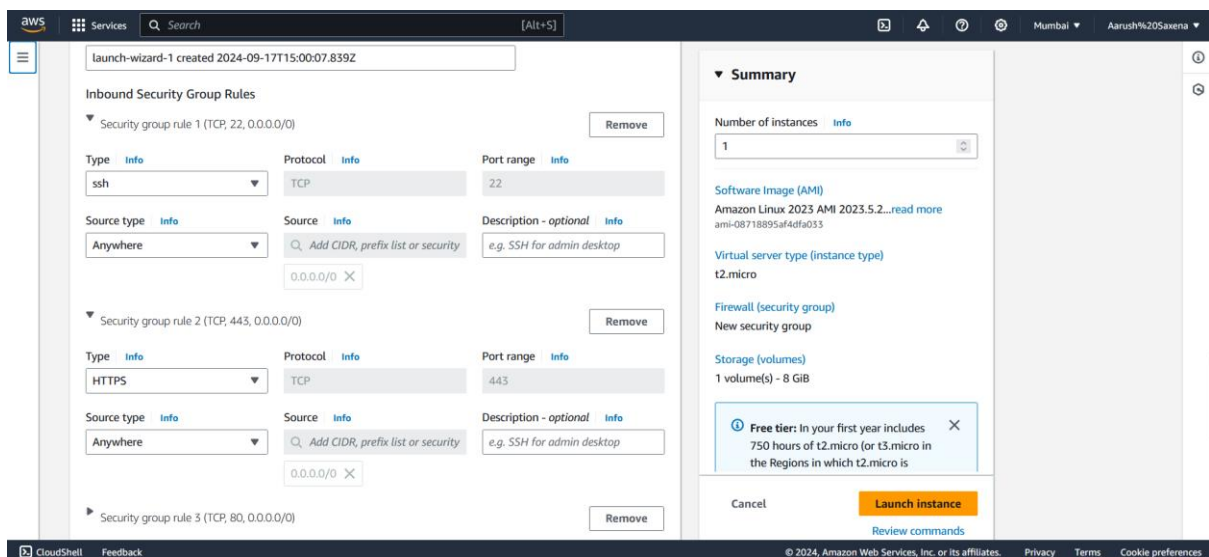
Leave other settings to default settings.

OR

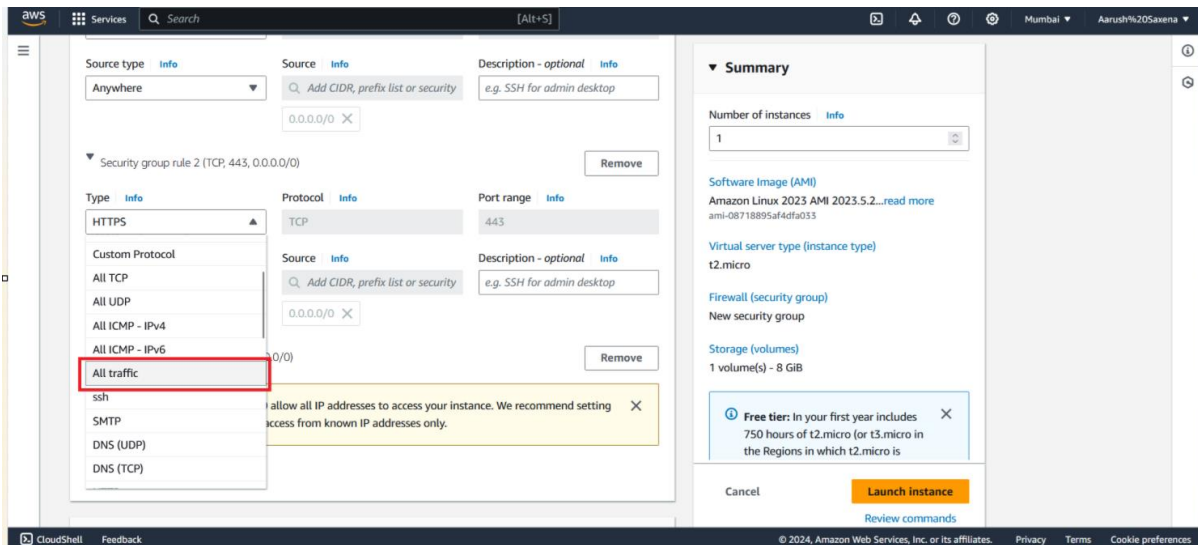
Step6: Click on edit option of Network settings



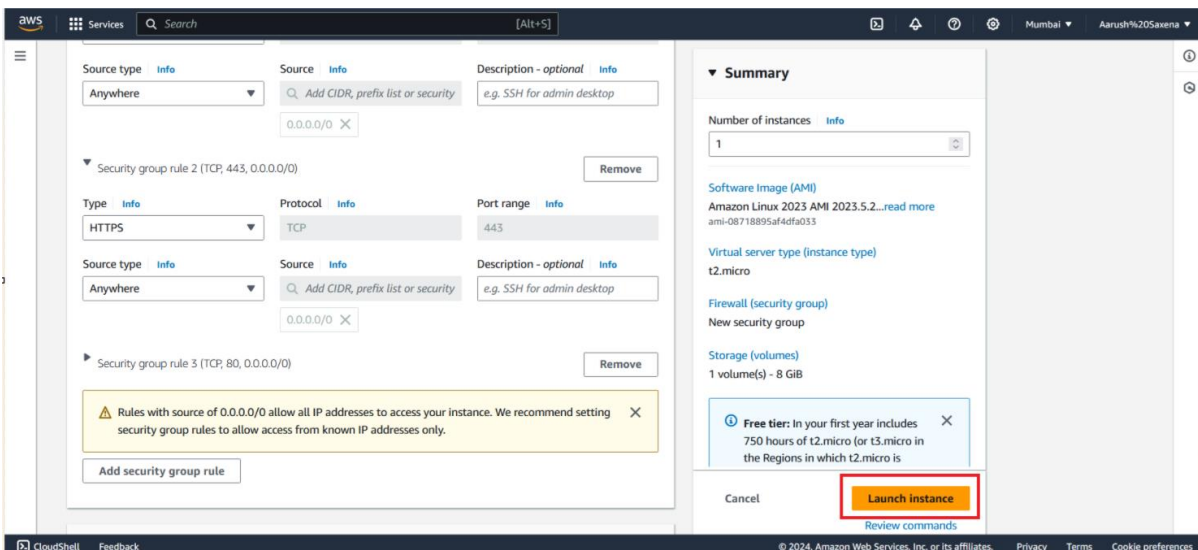
By default it shows options like this image given below



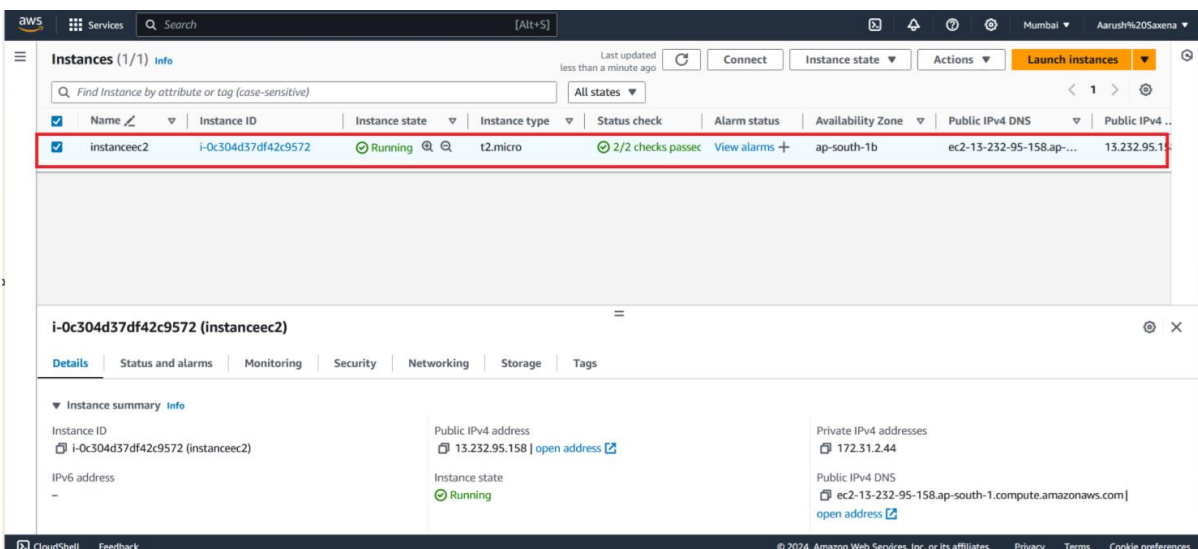
And now we have to change types so that we can allow all traffics to acces our website



Step7: After that click on launch instances



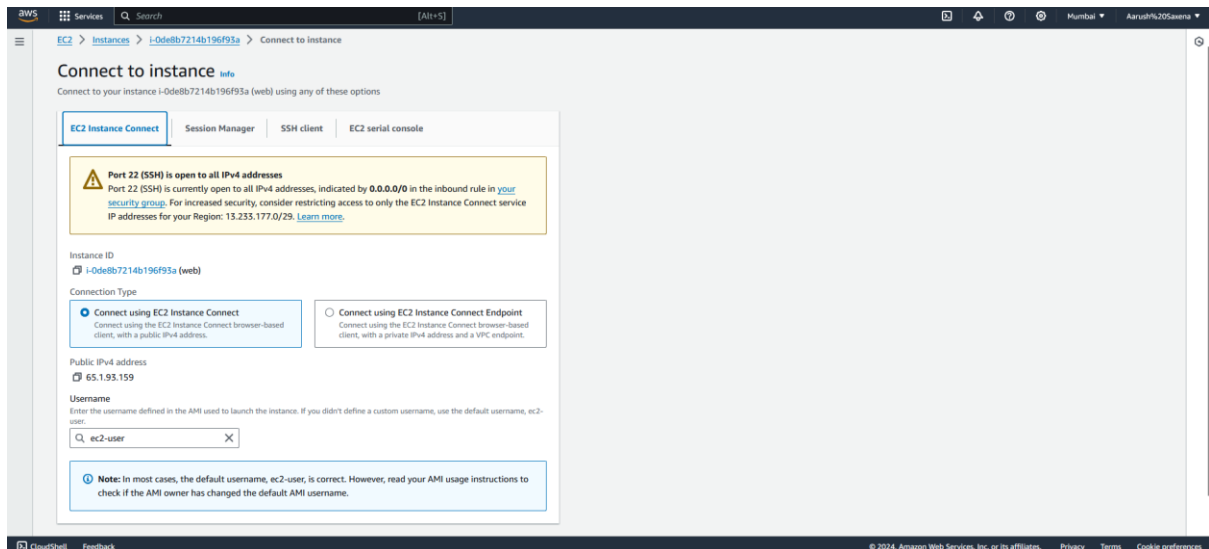
Your instance now has been created



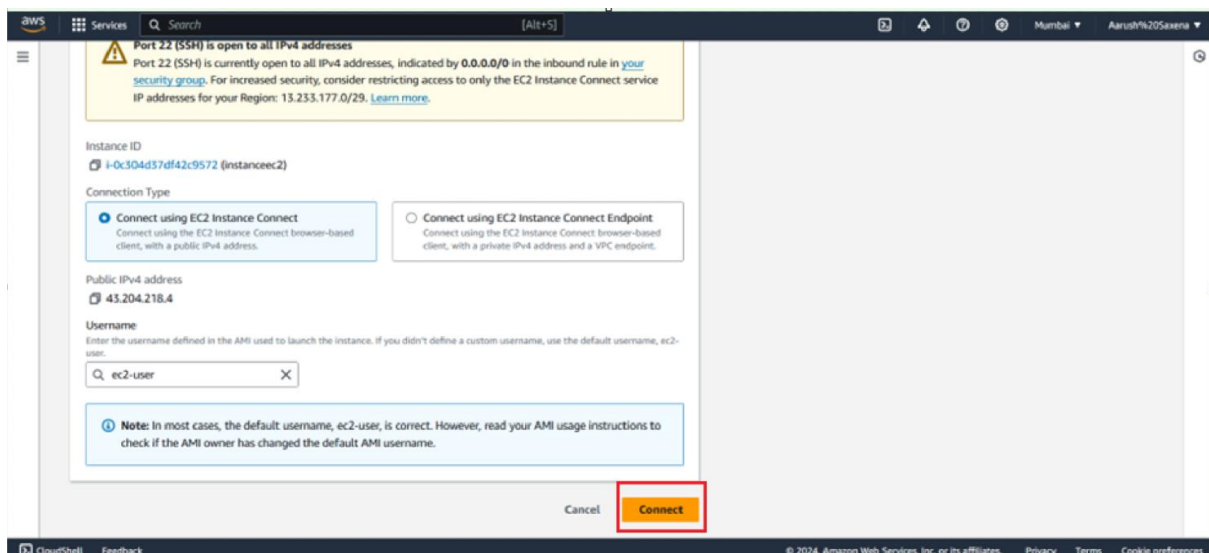
Now you can connect it through cmd, terminal, windows powershell and through aws ec2 connect.

Step8: Now select your instance and click on connect button

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

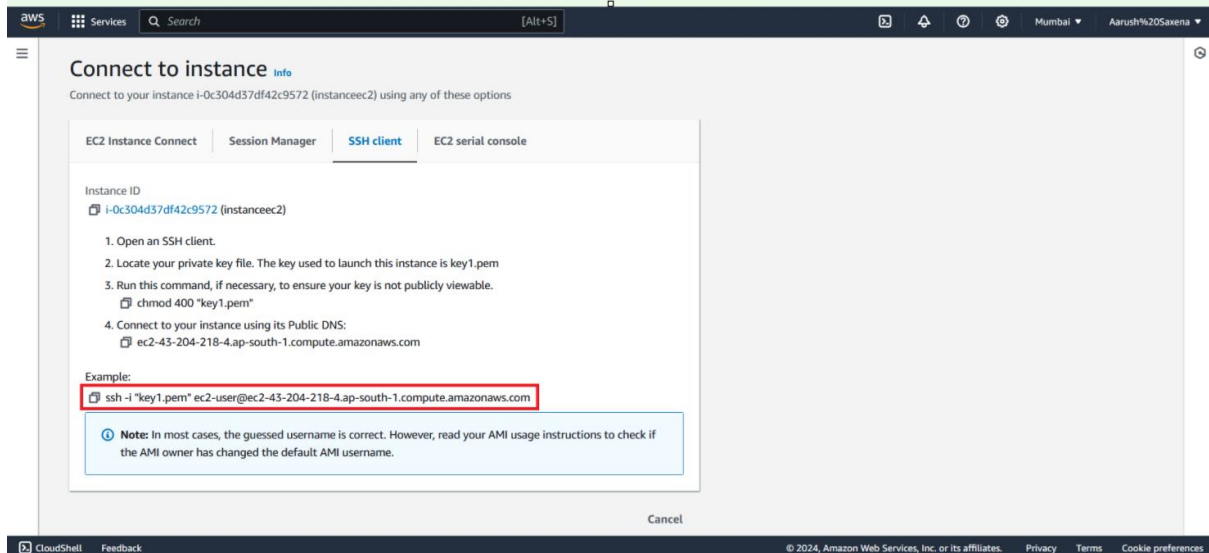


So to connect aws ec2 connect we can simply click on connect button



OR

Step10: We are going to connect it through cmd

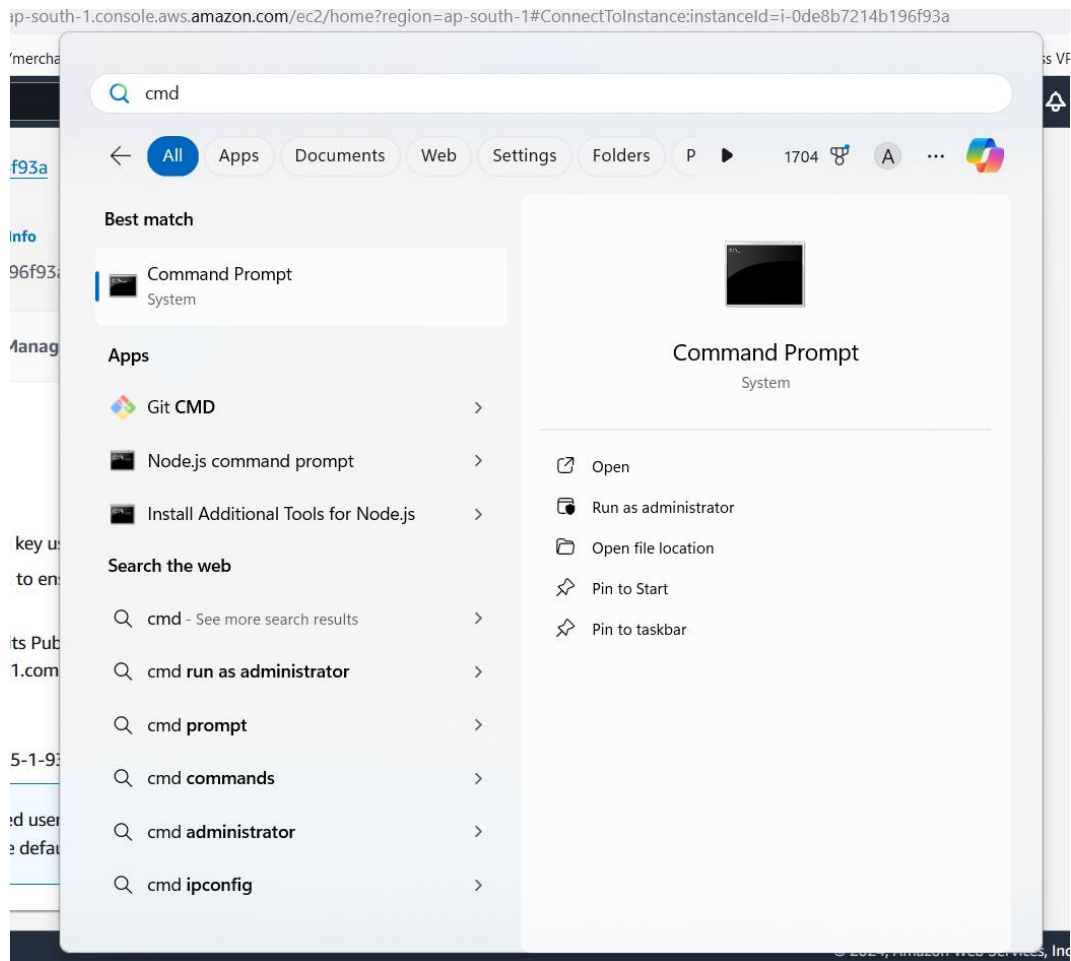


Copy this path and paste it to your directory where you download that key

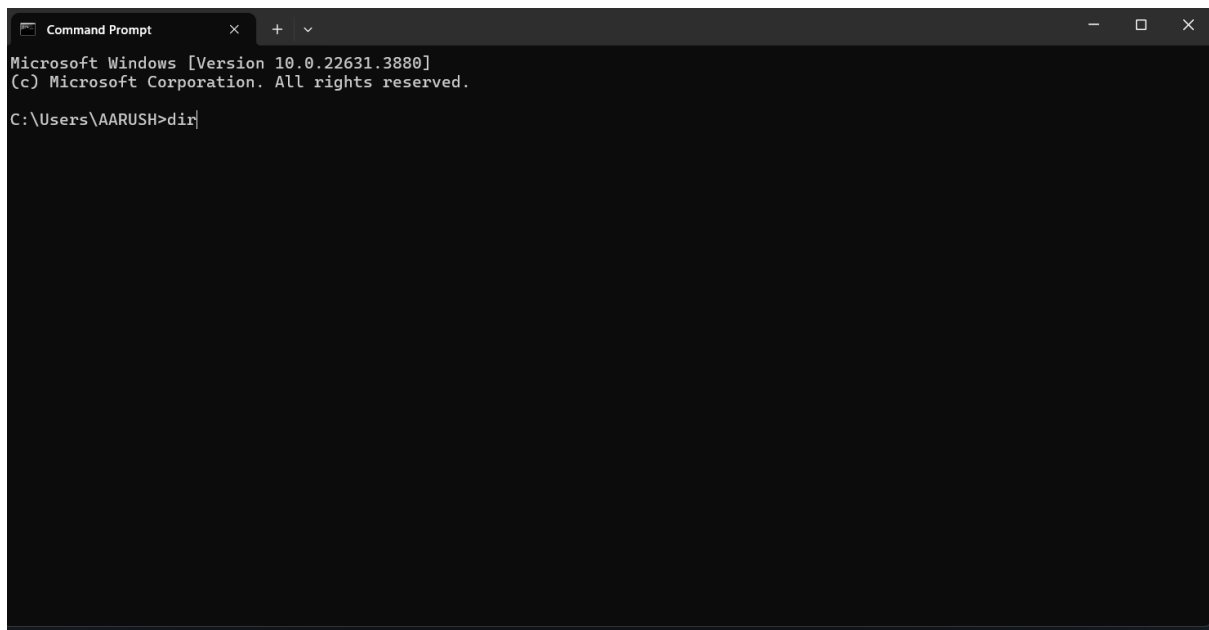
Step11: Go to search bar and type cmd

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 exists there or not by using command ls -a



As I downloaded my key in downloads directory go to there



```
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'
```


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

```
root@ip-172-31-3-216:/home/ X + -
premiumregister.pdf
python-3.11.4-amd64.exe
renewal_export_1711461925277.xlsx
renewal_export_1711462908208.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:CaBwZjdbF7JVQuEDdPD5IVK6u48q5kYW3yF/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.

      _#_
     i\_ #####          Amazon Linux 2023
    nn \_#####\
       \|#####|
       \|##/\
       \|#/ ---- 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`.

```
root@ip-172-31-3-216:/home/ ~  
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  
~~ \#####\  
~~ \###|  
~~ \#/ ---  
~~ \~' '->  
~~~~  
~~ _-' /  
_/_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`

```
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
○ 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]#
```

Step17: 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
○ 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

```
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/var/wn  +  v

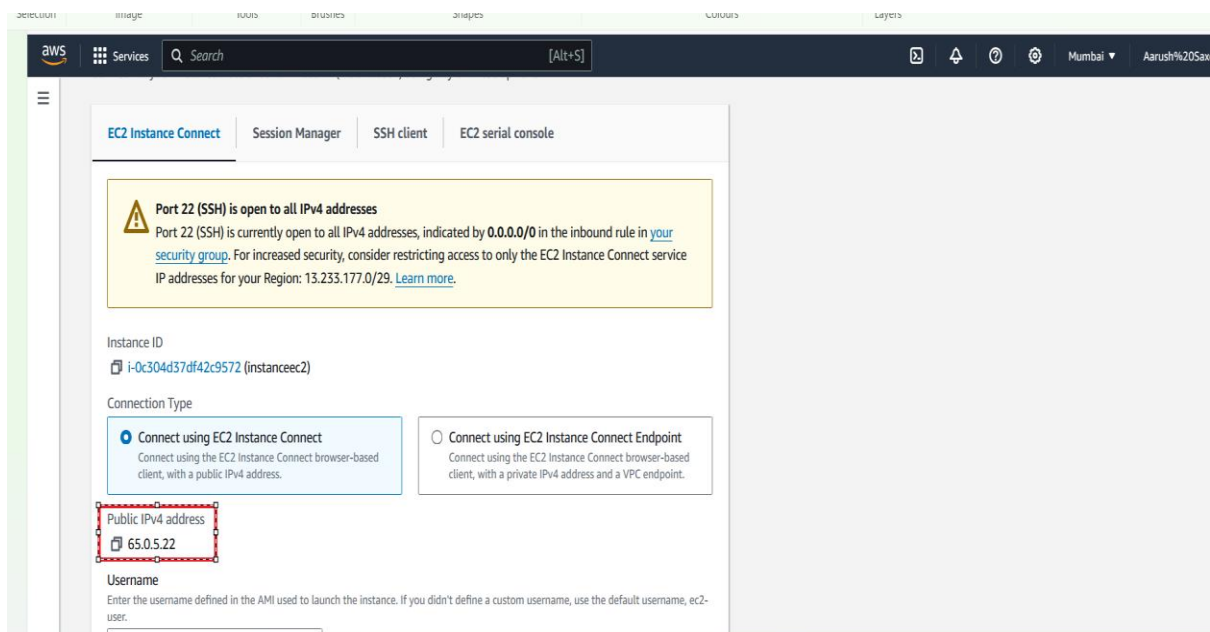
[root@ip-172-31-3-216 ec2-user]# cd ..
[root@ip-172-31-3-216 home]# cd ..
[root@ip-172-31-3-216 /]# ls
bin boot dev etc home lib lib64 local media mnt opt proc root run sbin srv sys tmp usr var
[root@ip-172-31-3-216 /]# cd /var
[root@ip-172-31-3-216 var]# ls
account cache empty games lib lock mail opt 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]#
```

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


```
root@ip-172-31-1-97:/var/www/ x + v
Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: disabled)
Active: inactive (dead)
Docs: man:httpd.service(8)
[root@ip-172-31-1-97 ec2-user]# systemctl start httpd
[root@ip-172-31-1-97 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 Thu 2024-11-14 15:47:09 UTC; 5s ago
  Docs: man:httpd.service(8)
 Main PID: 25862 (httpd)
  Status: "Started, listening on: port 80"
  Tasks: 177 (limit: 1113)
  Memory: 12.9M
  CPU: 55ms
  CGroup: /system.slice/httpd.service
          └─25862 /usr/sbin/httpd -DFOREGROUND
            └─25863 /usr/sbin/httpd -DFOREGROUND
              └─25864 /usr/sbin/httpd -DFOREGROUND
                └─25865 /usr/sbin/httpd -DFOREGROUND
                  └─25866 /usr/sbin/httpd -DFOREGROUND

Nov 14 15:47:09 ip-172-31-1-97.ap-south-1.compute.internal systemd[1]: Starting httpd.service - The Apache HTTP Server.
Nov 14 15:47:09 ip-172-31-1-97.ap-south-1.compute.internal systemd[1]: Started httpd.service - The Apache HTTP Server.
Nov 14 15:47:09 ip-172-31-1-97.ap-south-1.compute.internal httpd[25862]: Server configured, listening on: port 80
lines 1-19/19 (END)
^C
[root@ip-172-31-1-97 ec2-user]# cd /var/www/html
[root@ip-172-31-1-97 html]# ls
[root@ip-172-31-1-97 html]# echo "hello sir keep going and one time you will definitely get suces" > index.html
[root@ip-172-31-1-97 html]#
```

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 definitely get suces