



EDUCACIÓN
SECRETARÍA DE EDUCACIÓN PÚBLICA



TECNOLÓGICO
NACIONAL DE MÉXICO



TECNOLÓGICO NACIONAL DE MÉXICO
INSTITUTO TECNOLÓGICO DE
SAN LUIS POTOSÍ

DEPARTAMENTO ACADÉMICO

Práctica 2 - Identificación de imágenes

NOMBRE DEL DOCENTE

CORDERO MARTINEZ STEPHANIE

NOMBRE DEL ESTUDIANTE

Blanco Ontiveros Francisco Ivan

Materia

Inteligencia Artificial

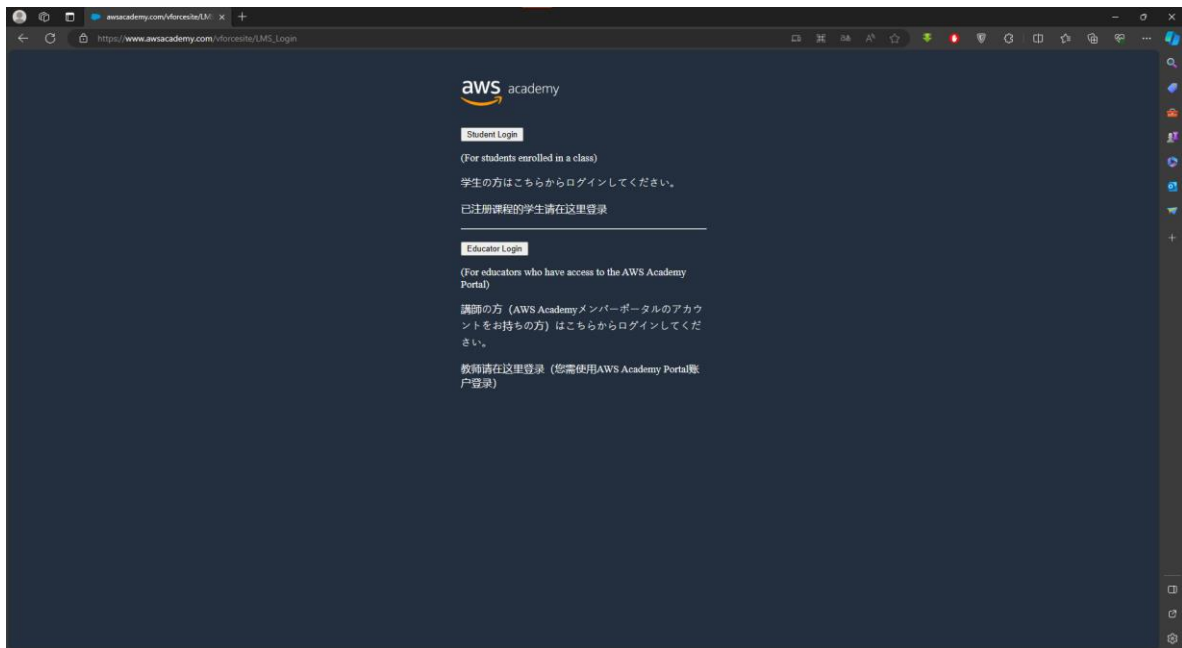
Hora

17:00:00 a 18:00:00

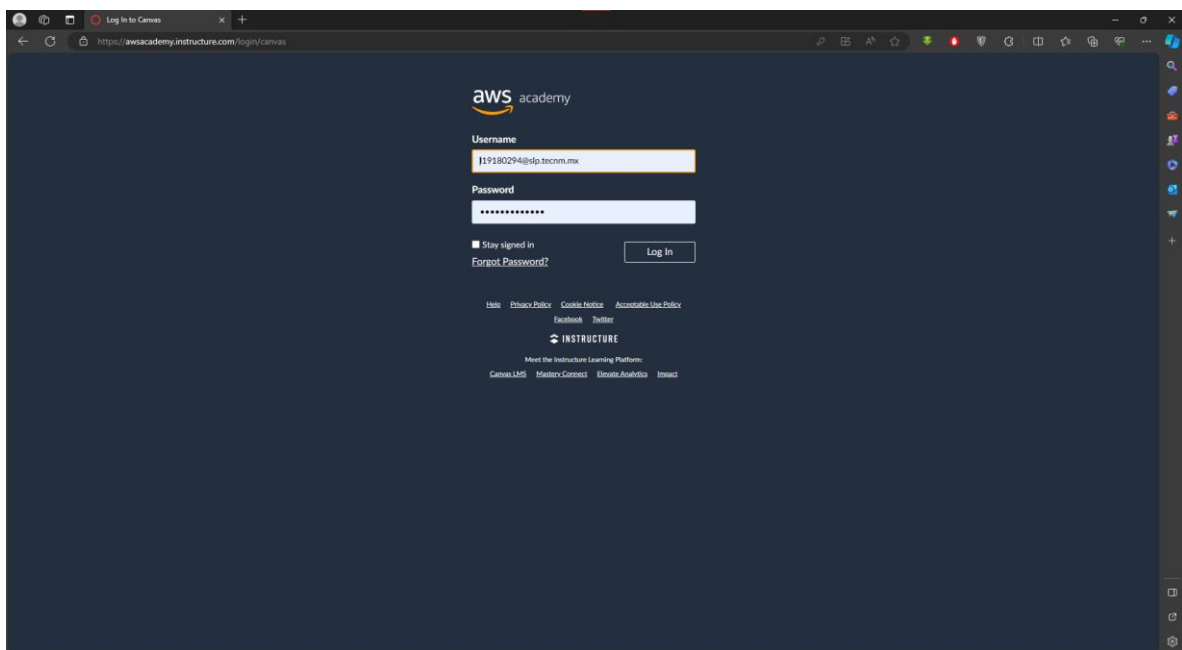
Fecha: 29/Noviembre/2023

Primero iniciamos sesión en

awsacademy.com/vforcessite/LMS_Login

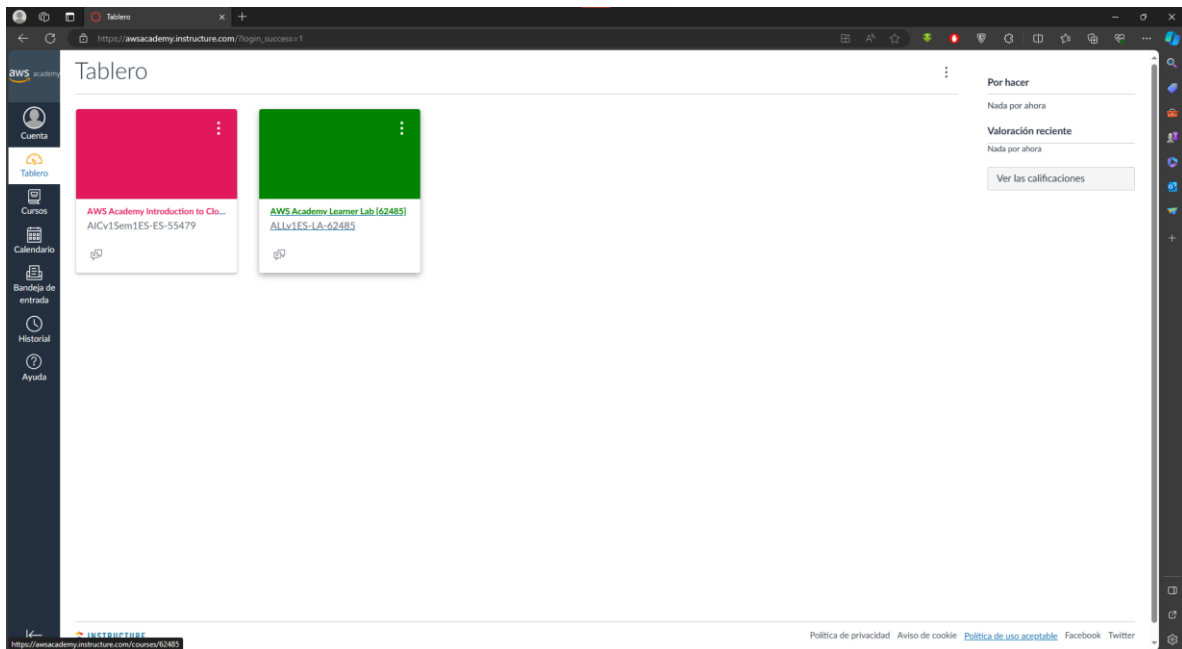


en “Student Login”

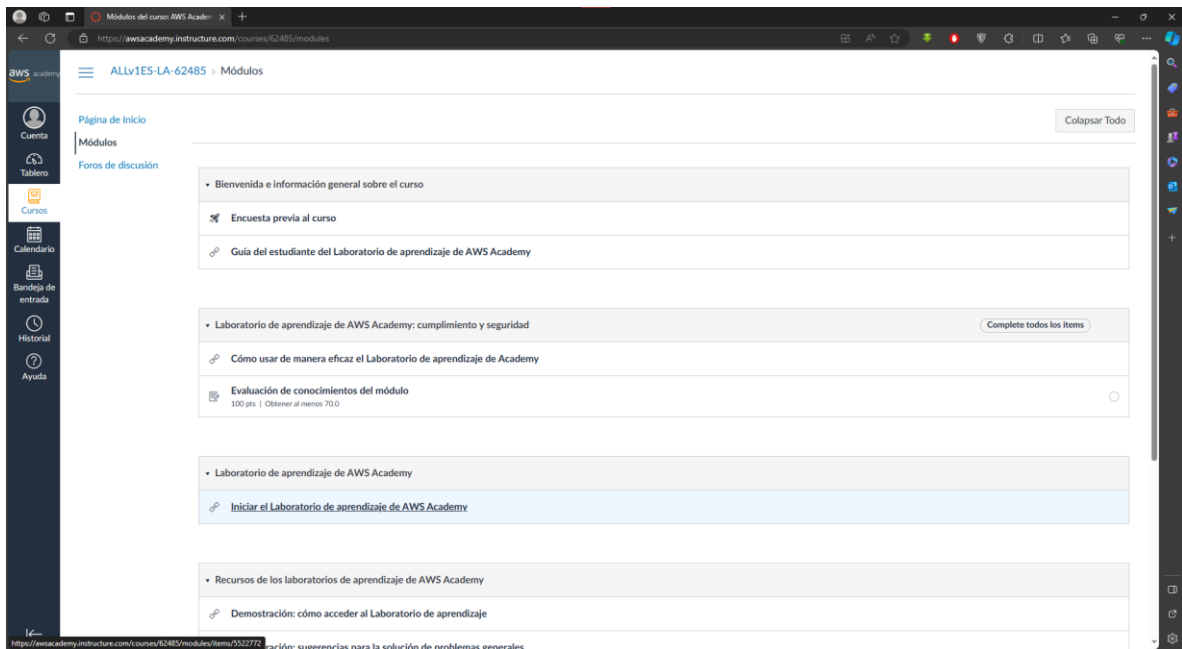


Seleccionamos nuestro curso

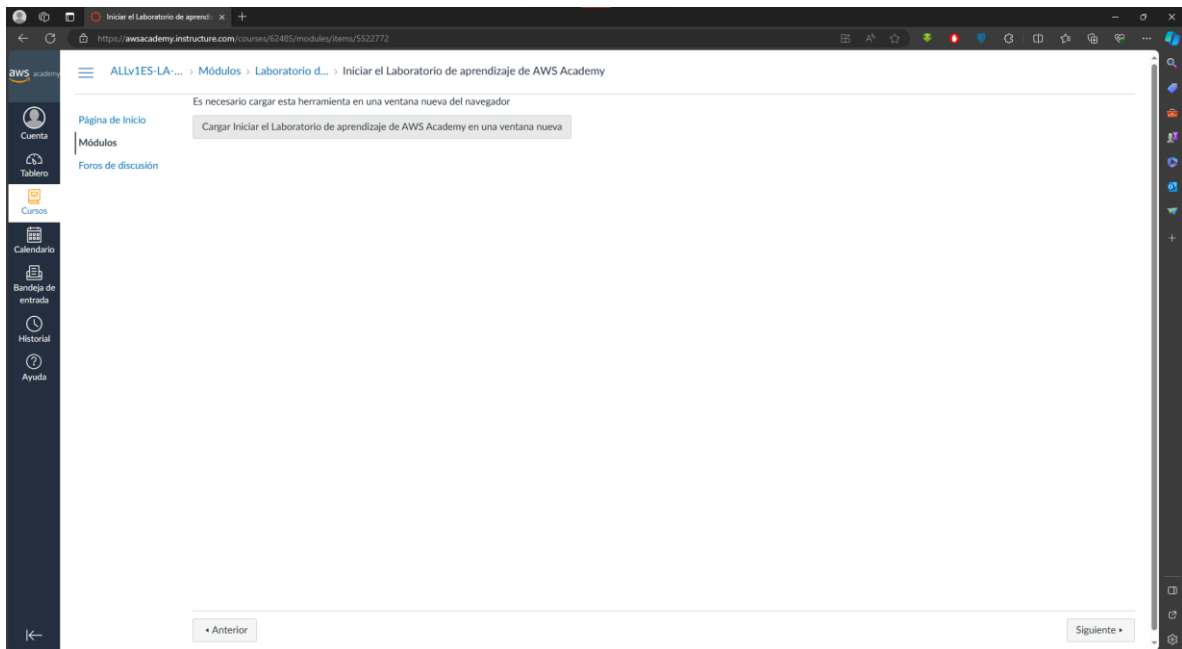
“ALLv1ES-LA-62485”



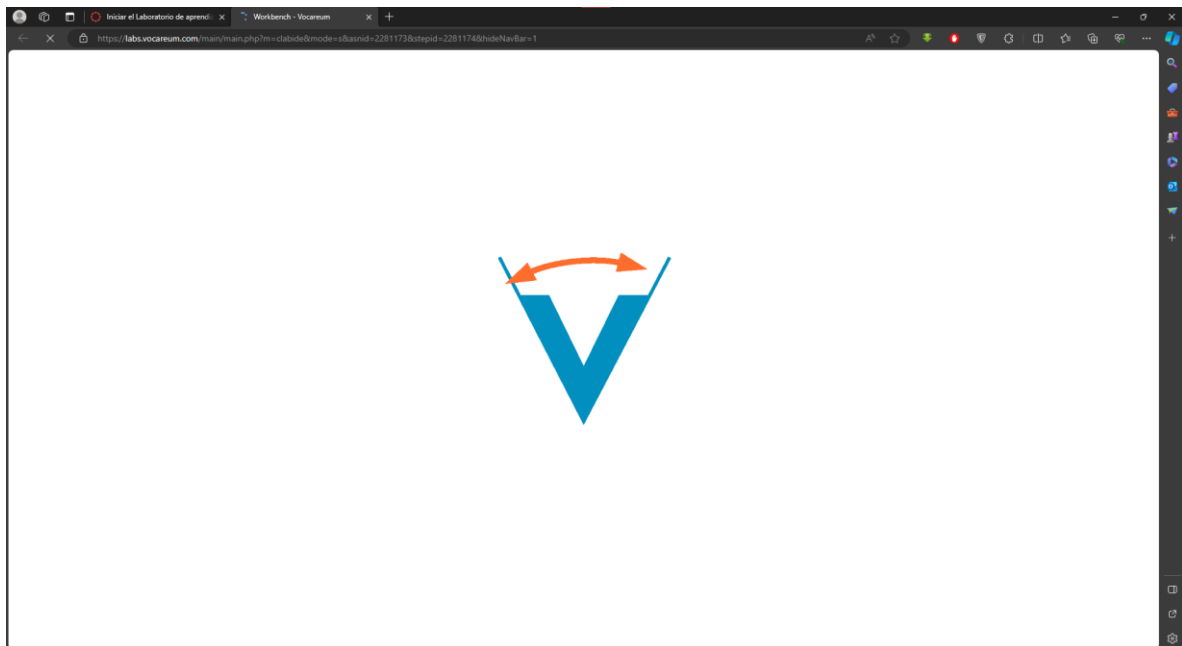
Iniciamos el laboratorio



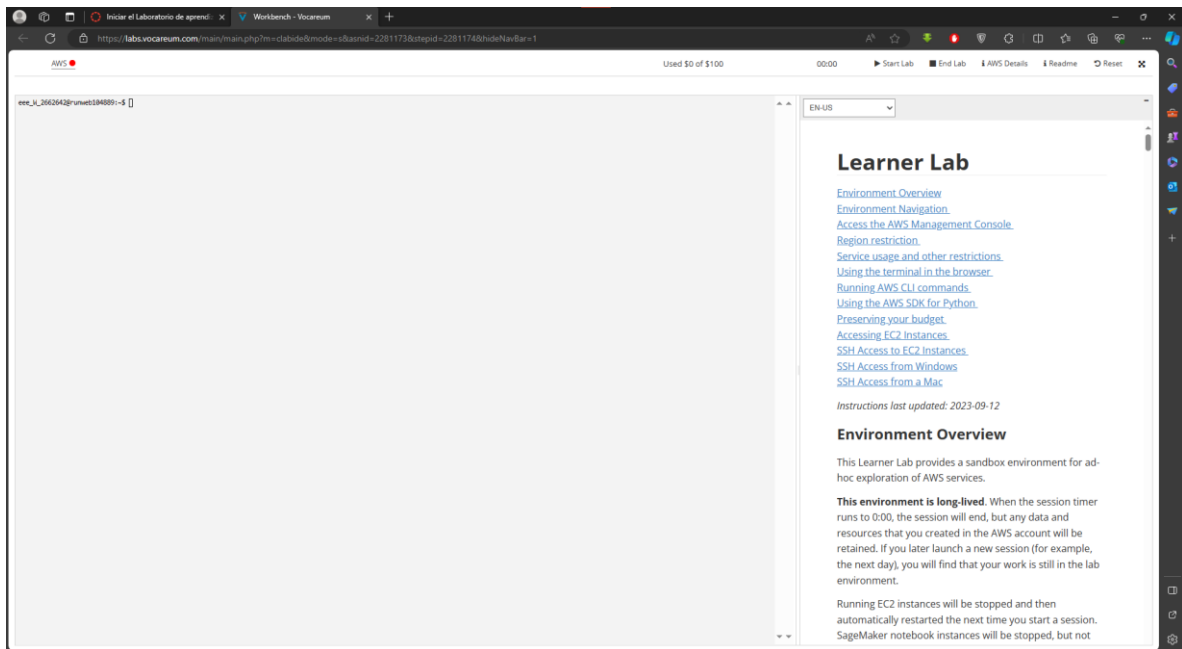
Cargamos el lab



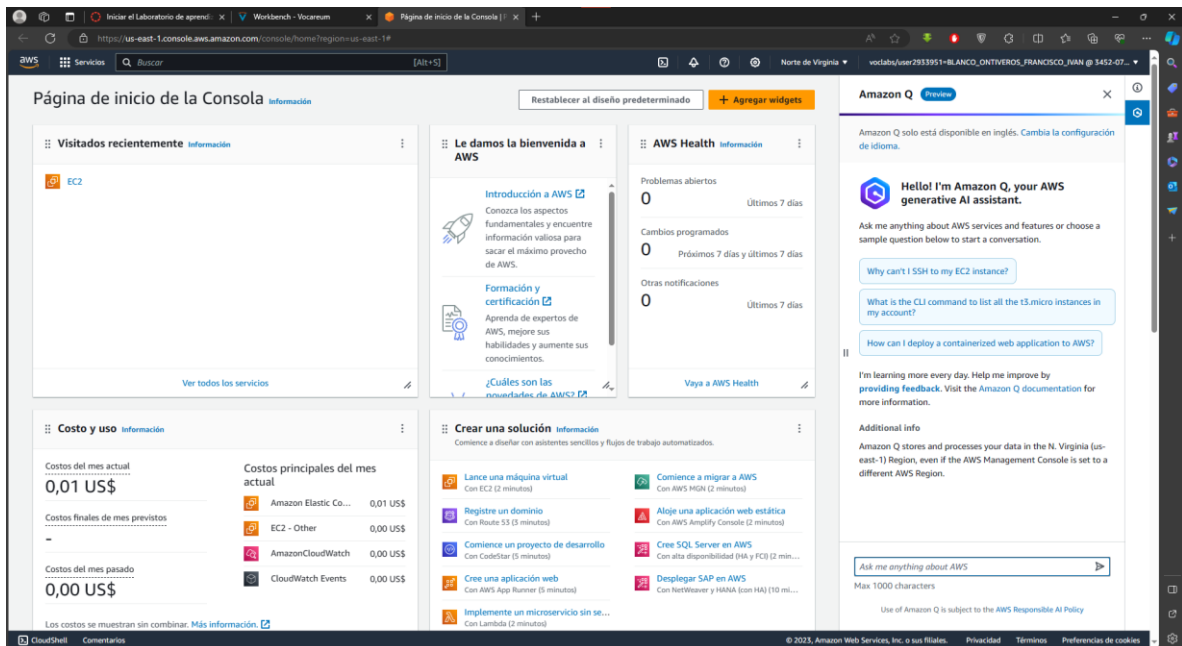
Nos abrirá una nueva pestaña, esperamos a que cargue



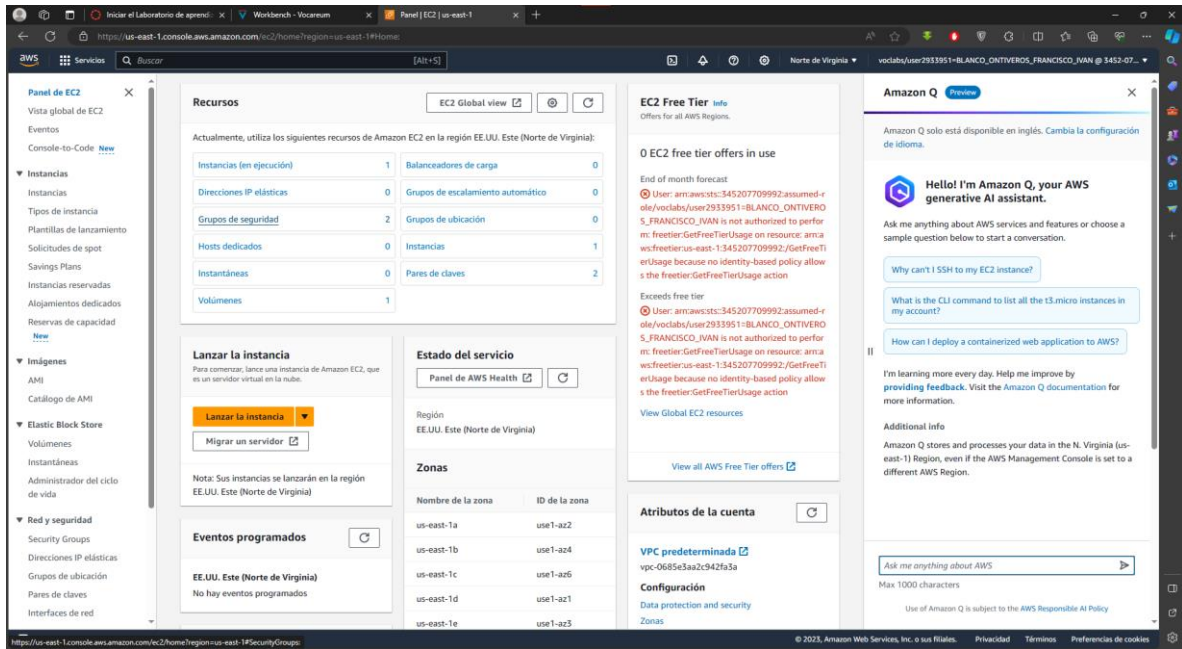
Damos clic en “Start Lab” y una vez iniciado daremos clic en donde dice “AWS” en la esquina superior izquierda (tiene un punto verde)



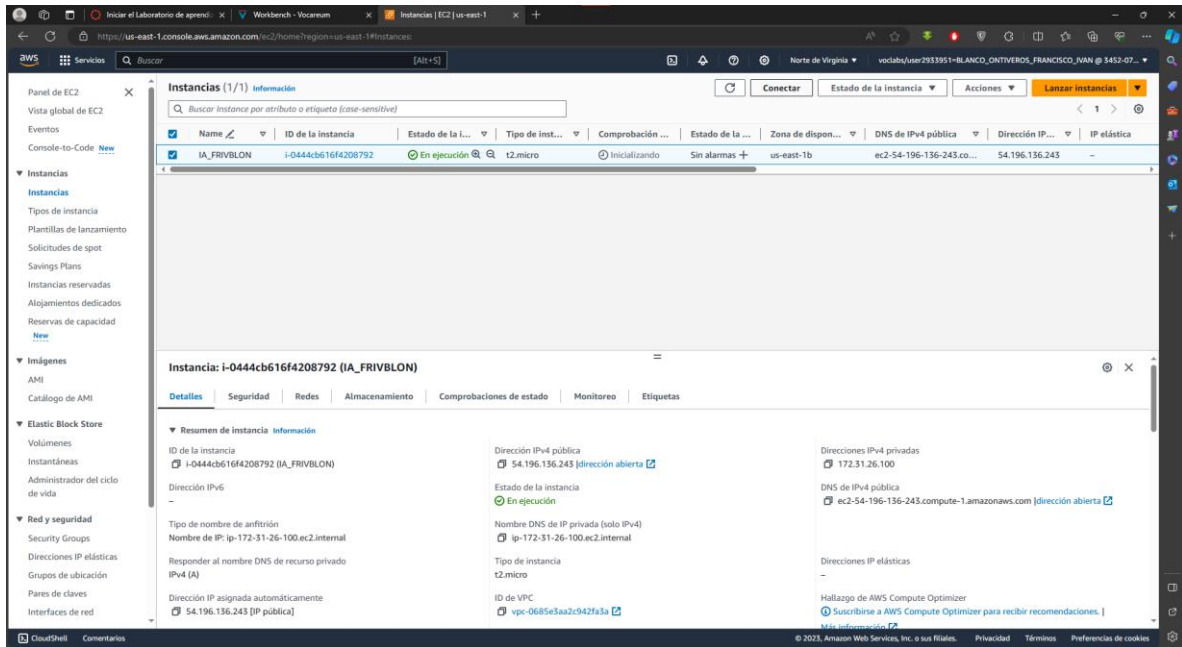
Nos abrirá una nueva pestaña y daremos clic en “EC2”



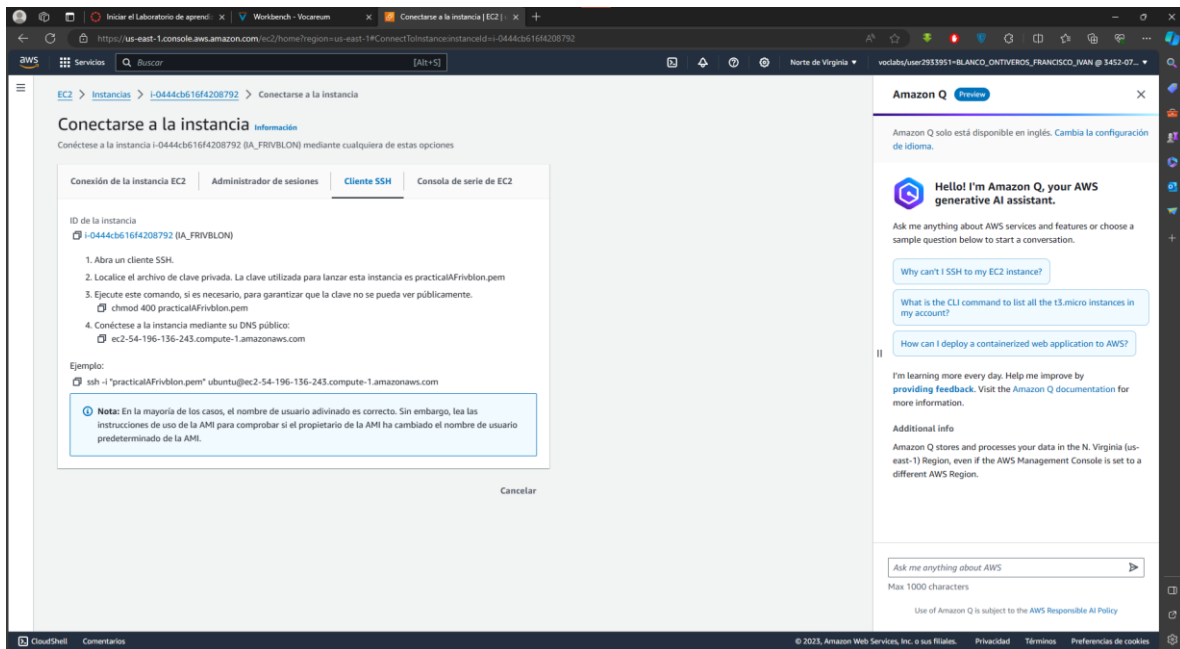
Vamos a “Instancias” en el menú de la izquierda



Seleccionamos nuestra instancia y damos clic en “Conectar”

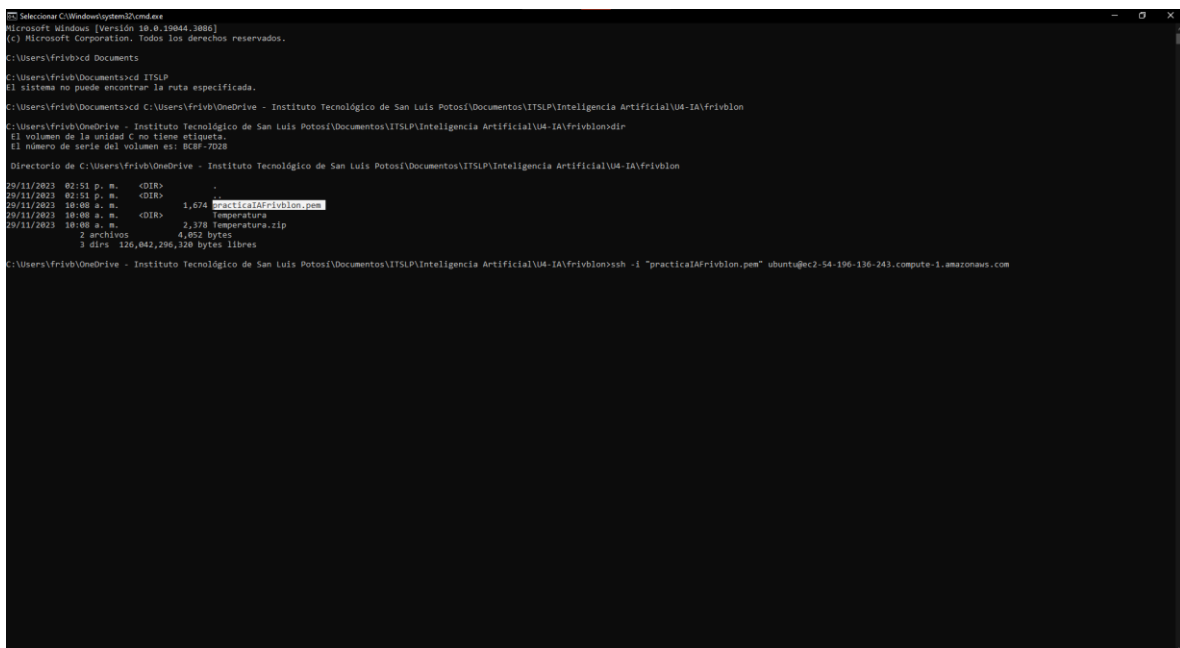


Damos clic en “Cliente SSH”



Y copiamos el comando de ejemplo que viene debajo de “Ejemplo” y abrimos nuestro cmd de Windows

Ahora navegamos hacia la ruta en donde tenemos nuestro archivo .pem, pegamos el comando y damos enter.



Ahora ya entramos a nuestro servidor!

```
Microsoft Windows [Versi3n 10.0.19044.3886]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\frivb>cd Documents

C:\Users\frivb\Documents>cd ITSLP
El sistema no puede encontrar la ruta especificada.

C:\Users\frivb\Documents>cd C:\Users\frivb\OneDrive - Instituto Tecnol3gico de San Luis Potosi\Documents\ITSLP\Inteligencia Artificial\U4-IA\Frivblon
C:\Users\frivb\OneDrive - Instituto Tecnol3gico de San Luis Potosi\Documents\ITSLP\Inteligencia Artificial\U4-IA\Frivblon>dir
El volumen de la unidad C: no tiene etiquetas.
El n3mero de serie del volumen es: BCF8-FD28

Directorio de C:\Users\frivb\OneDrive - Instituto Tecnol3gico de San Luis Potosi\Documents\ITSLP\Inteligencia Artificial\U4-IA\Frivblon

29/11/2023  02:51 p. m.      <DIR>          .
29/11/2023  02:51 p. m.      <DIR>          ..
29/11/2023  18:08 a. m.      <DIR>          1,674 PracticalAFrivblon.pem
29/11/2023  18:08 a. m.      <DIR>          Temperatura
29/11/2023  18:08 a. m.      <DIR>          2,378 Temperatura.zip
                2 archivos
                4,802 bytes
                3 dirs  126,042,296,320 bytes libres

C:\Users\frivb\OneDrive - Instituto Tecnol3gico de San Luis Potosi\Documents\ITSLP\Inteligencia Artificial\U4-IA\Frivblon>ssh -i "practicalAFrivblon.pem" ubuntu@ec2-54-196-136-243.compute-1.amazonaws.com
The authenticity of host 'ec2-54-196-136-243.compute-1.amazonaws.com (54.196.136.243)' can't be established.
ECDSA key fingerprint is 9a2a56:81d7f0d0507e51e9bda3a0e81197f16d040da.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-54-196-136-243.compute-1.amazonaws.com,54.196.136.243' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1016-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

System information as of Wed Nov 29 21:07:54 UTC 2023

System load:  0.0               Processes:    99
Usage of /:    7.9% of 28.89GB   Users logged in: 0
Memory usage: 20%              IPv4 address for eth0: 172.31.26.100
Swap usage:    0%

 * Ubuntu Pro delivers the most comprehensive open source security and
  compliance features.

  https://ubuntu.com/aus/pro

Expanded Security Maintenance for Applications is not enabled.

2 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

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

Last login: Wed Nov 29 19:02:04 2023 from 187.190.125.112
ubuntu@ip-172-31-26-100:~$
```

Hacemos un update y upgrade para actualizar y luego verificamos que tenemos instalado apache

```
ubuntu@ip-172-31-26-100:~$
Last login: Wed Nov 29 19:02:04 2023 from 187.190.125.112
ubuntu@ip-172-31-26-100:~$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1212 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [223 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1185 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [102 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [3808 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [224 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [27.8 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:13 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [991 kB]
Get:14 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [192 kB]
Get:15 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [807 kB]
Get:16 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [158 kB]
Fetched 6596 kB in 1s (3259 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-26-100:~$ sudo apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
The following packages have been kept back:
  ubuntu-advantage-tools
The following packages will be upgraded:
  cloud-init
1 upgraded, 0 newly installed, 0 to remove and 1 not upgraded.
Need to get 541 kB of archives.
After this operation, 100 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 cloud-init all 23.3.3-0ubuntu22.04.1 [541 kB]
Fetched 541 kB in 0s (23.1 MB/s)
reconfiguring packages...
Reading database... 39297 files and directories currently installed.)
Preparing to unpack .../cloud-init_23.3.3-0ubuntu22.04.1_all.deb ...
Unpacking cloud-init (23.3.3-0ubuntu22.04.1) over (23.2.2-0ubuntu22.04.1) ...
Setting up cloud-init (23.3.3-0ubuntu22.04.1) ...
Installing new version of config file /etc/cloud/cloud.cfg ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for rsyslog (8.2112.0-2ubuntu2.2) ...
Running processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-26-100:~$ sudo apt-get install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.52-1ubuntu7.7).
0 upgraded, 0 newly installed, 0 to remove and 1 not upgraded.
ubuntu@ip-172-31-26-100:~$
```

Ahora en una nueva ventana de cmd de Windows ponemos la ruta donde tenemos nuestros archivo “Temperatura.zip”

“scp -i practicalAFrivblon.pem C:\Users\frivb\Documents\IA\Temperatura.zip ubuntu@ec2-54-196-136-243.compute-1.amazonaws.com:/home/ubuntu”


```
Selecionar C:\Windows\system32\cmd.exe
Microsoft Windows [Versi3n 10.0.19044.3886]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\frivb>cd Documents
C:\Users\frivb\Documents>cd IA
C:\Users\frivb\Documents\IA>cd ..
C:\Users\frivb\Documents>cd IA
C:\Users\frivb\Documents\IA>
C:\Users\frivb\Documents\IA>scp -i practicalIAFrivblon.pem C:\Users\frivb\Documents\Temperatura.zip ubuntu@ec2-54-196-136-243.compute-1.amazonaws.com:/home/ubuntu
C:/Users/frivb/Documents/Temperatura.zip: No such file or directory
C:\Users\frivb\Documents\IA>
C:\Users\frivb\Documents\IA>scp -i practicalIAFrivblon.pem C:\Users\frivb\Documents\IA\Temperatura.zip ubuntu@ec2-54-196-136-243.compute-1.amazonaws.com:/home/ubuntu
Temperatura.zip 100% 3275 2.2KB/s 00:01
C:\Users\frivb\Documents\IA>
C:\Users\frivb\Documents\IA>
C:\Users\frivb\Documents\IA>
```

Ahora que subimos nuestro archivo vamos a la terminal de nuestro servidor Ubuntu e introducimos los siguientes comandos, b3asicamente lo que estamos haciendo aqu3 es descomprimir el archivo en la ruta www/var

```
ubuntu@172.31.26.100:~$ sudo apt-get install unzip
Last login: Wed Nov 29 21:07:55 2023 from 189.203.204.20
ubuntu@172.31.26.100:~$ sudo apt-get install unzip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
unzip is already the newest version (6.0-26ubuntu1.1).
0 upgraded, 0 newly installed, 0 to remove and 1 not upgraded.
ubuntu@172.31.26.100:~$ client_loop: send disconnect: Connection reset

C:\Users\frivb\OneDrive - Instituto Tecnol3gico de San Luis Potos3\Documents\ITSLP\Inteligencia Artificial\UA-IA\Frivblon>ssh -i "practicalIAFrivblon.pem" ubuntu@ec2-54-196-136-243.compute-1.amazonaws.com
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 6.2.0-1016-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

System information as of Wed Nov 29 22:11:50 UTC 2023

System load: 0.0          Processes: 106
Usage of /: 7.9% of 28.89GB Users logged in: 1
Memory usage: 2.5%       IPv4 address for eth0: 172.31.26.100
Swap usage: 0%

 * Ubuntu Pro delivers the most comprehensive open source security and
  compliance features.

  https://ubuntu.com/aus/pro

Expanded Security Maintenance for Applications is not enabled.

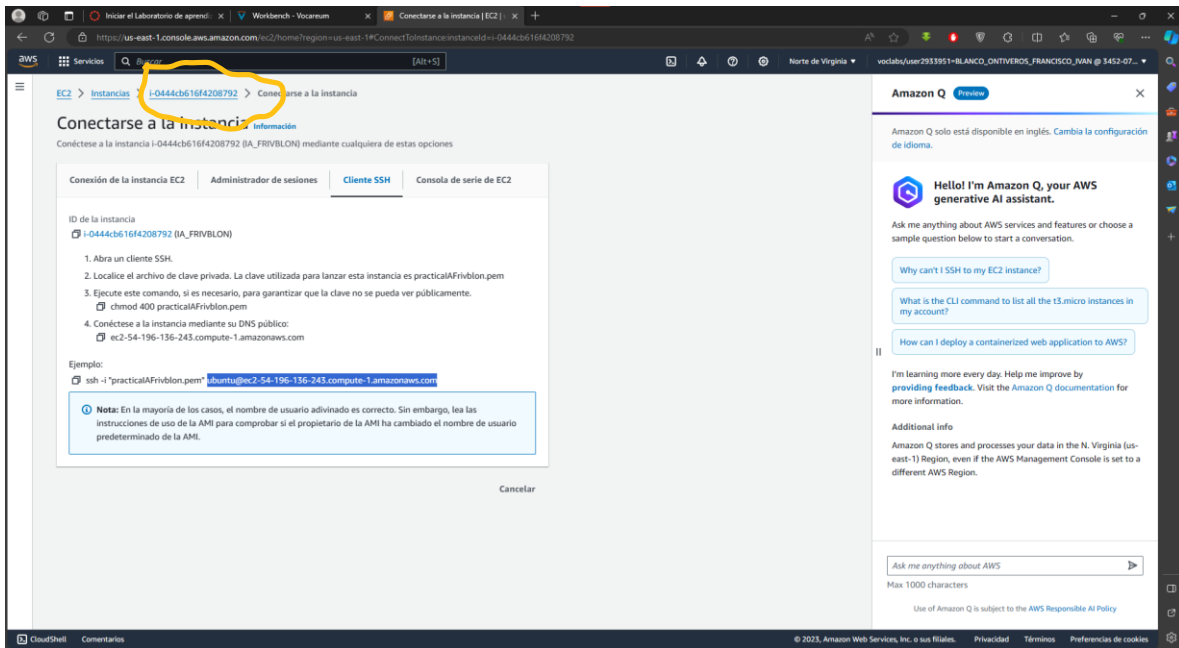
2 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

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

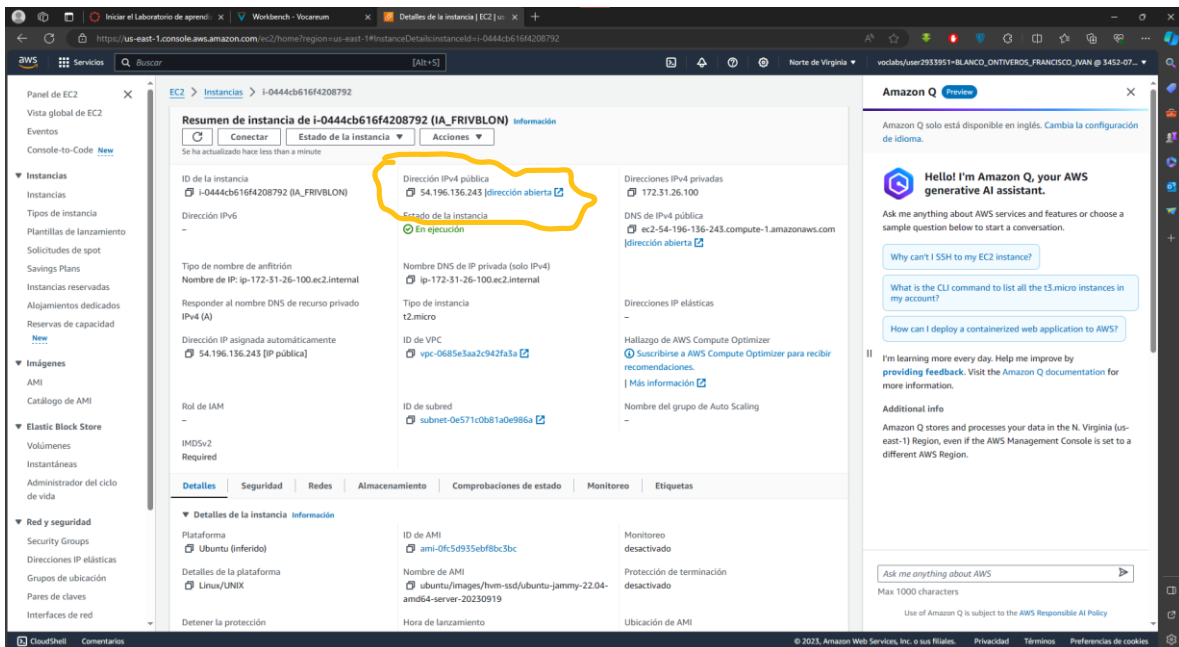
Last login: Wed Nov 29 22:05:36 2023 from 189.203.204.20
ubuntu@172.31.26.100:~$ ls
Temperatura.zip
ubuntu@172.31.26.100:~$ sudo cp Temperatura.zip /var/www/html
ubuntu@172.31.26.100:~$ cd /var/www/html
ubuntu@172.31.26.100:/var/www/html$ ls
Temperatura  Temperatura.zip  index.html
ubuntu@172.31.26.100:/var/www/html$ sudo unzip Temperatura.zip
Archive:  Temperatura.zip
  replace Temperatura/group1-shardof1.bin? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
    inflating: Temperatura/group1-shardof1.bin
  replace Temperatura/index.html? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
    inflating: Temperatura/index.html
  replace Temperatura/model.json? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
    inflating: Temperatura/model.json
    inflating: Temperatura/model.json.txt
ubuntu@172.31.26.100:/var/www/html$ cd /etc/apache2/sites-available/
ubuntu@172.31.26.100:/etc/apache2/sites-available$ sudo cp 000-default.conf temp.conf
ubuntu@172.31.26.100:/etc/apache2/sites-available$ sudo nano temp.conf
ubuntu@172.31.26.100:/etc/apache2/sites-available$ sudo service apache2 restart
ubuntu@172.31.26.100:/etc/apache2/sites-available$ sudo a2disite 000-default.conf
Site 000-default disabled.
To activate the new configuration, you need to run:
  systemctl reload apache2
ubuntu@172.31.26.100:/etc/apache2/sites-available$ sudo service apache2 restart
ubuntu@172.31.26.100:/etc/apache2/sites-available$
```

Ahora probamos copiando y pegando la ip publica en el navegador e indicando la carpeta en la que esta nuestra pequena pagina web

Para hacer esto una de las formas para ir a la pantalla que necesitamos es dar clic aquí



Y nos llevara a la pantalla que necesitamos y copiamos esta dirección ipv4 publica, la pegamos en el navegador y damos enter.



Nos deberá aparecer nuestra página web como en la siguiente imagen con nuestra página funcional.

