

## CARRERA DE INGENIERIA DE SOFTWARE

**MATERIA:** Gráficos y visualización

**NOMBRES Y APELLIDOS:** Christian Saraguro

**FECHA:** 13/06/2023

Bueno lo primero es EC2 con tic tac en React.  
Para empezar cree mi instancia.

Instancias (1/2)Información

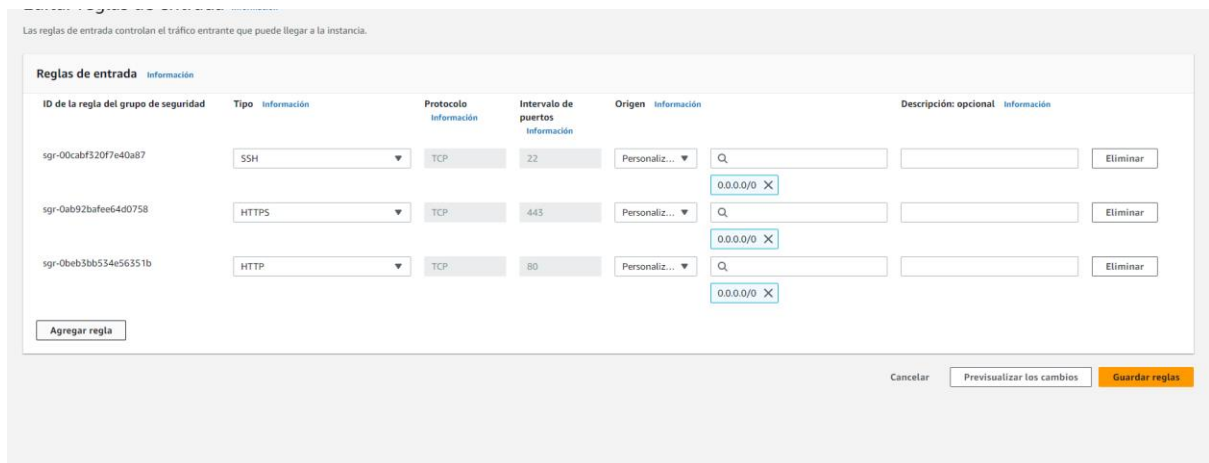
Buscar instancia por atributo o etiqueta (case-sensitive)

1

>

<input checked="" type="checkbox"/>	Name	ID de la instancia	Estado de la i...	Tipo de inst...	Comprobación ...	Estado de la ...	Zona de dispon...	DNS de IPv4 pública	Dirección IP...	IP elástica
<input type="checkbox"/>	chris-instance	i-04511a5c47e989d40	En ejecución	t2.micro	2/2 comprobador	Sin alarmas +	us-east-1a	ec2-52-90-83-75.comp...	52.90.83.75	-
<input checked="" type="checkbox"/>	Proyecto01	i-0bf27fe49816ca734	En ejecución	t2.micro	-	Sin alarmas +	us-east-1a	ec2-3-86-187-173.com...	3.86.187.173	-

Aquí configure las reglas:



Las reglas de entrada controlan el tráfico entrante que puede llegar a la instancia.

ID de la regla del grupo de seguridad	Tipo	Protocolo	Intervalo de puertos	Origen	Descripción: opcional
sgr-00cabf320f7e40a87	SSH	TCP	22	Personaliz...	0.0.0.0/0
sgr-0ab92baf6e4d0758	HTTPS	TCP	443	Personaliz...	0.0.0.0/0
sgr-0beb3bb534e56351b	HTTP	TCP	80	Personaliz...	0.0.0.0/0

Agregar regla

Cancelar Previsualizar los cambios Guardar reglas

[Alt+S]

Norte de Virginia Christian-Encalada

Las reglas del grupo de seguridad de entrada se han modificado correctamente en el grupo de seguridad (sg-07dfbb402f3268deb | launch-wizard-2)

Detalles

EC2 > Grupos de seguridad > sg-07dfbb402f3268deb - launch-wizard-2

### sg-07dfbb402f3268deb - launch-wizard-2

Acciones

**Detalles**

Nombre del grupo de seguridad launch-wizard-2	ID del grupo de seguridad sg-07dfbb402f3268deb	Descripción launch-wizard-2 created 2023-06-14T03:23:19.600Z	ID de la VPC vpc-0aa8b50ac521fc783
Propietario 086831753413	Número de reglas de entrada 4 Entradas de permisos	Número de reglas de salida 1 Entrada de permiso	

Reglas de entrada Reglas de salida Etiquetas

Ahora puede comprobar la conectividad de red con Reachability Analyzer Ejecutar Reachability Analyzer

Reglas de entrada (4)

Filtrar reglas de grupo de seguridad

	Name	ID de la regla del g...	Versión de IP	Tipo	Protocolo	Intervalo de puertos	Origen	Descripción
<input type="checkbox"/>	-	sgr-00cabf320f7e40a87	IPv4	SSH	TCP	22	0.0.0.0/0	-
<input type="checkbox"/>	-	sgr-00720110c06664...	IPv4	TCP personalizado	TCP	3000	0.0.0.0/0	-
<input type="checkbox"/>	-	sgr-0ab92baf6e64d0758	IPv4	HTTPS	TCP	443	0.0.0.0/0	-
<input type="checkbox"/>	-	sgr-0beb3bb534e563...	IPv4	HTTP	TCP	80	0.0.0.0/0	-

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25°C Mayorm. publica 10:26 p. m.

Antes de eso también descargue mi clave pem, que esta guardada en descargas, por lo que ingreso ahí desde el terminal:

CA. Símbolo del sistema

```
Microsoft Windows [Versión 10.0.19044.3086]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\Christian Encalada>cd Downloads/

C:\Users\Christian Encalada\Downloads>ssh -V
OpenSSH_for_Windows_8.1p1, LibreSSL 3.0.2

C:\Users\Christian Encalada\Downloads>
```

```

Microsoft Windows [Versión 10.0.19044.3086]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\Christian Encalada>cd Downloads/

C:\Users\Christian Encalada\Downloads>ssh -V
OpenSSH_for_Windows_8.1p1, LibreSSL 3.0.2

C:\Users\Christian Encalada\Downloads>ssh -i "claveproyect.pem" ec2-user@ec2-3-86-187-173.compute-1.amazonaws.com
The authenticity of host 'ec2-3-86-187-173.compute-1.amazonaws.com (3.86.187.173)' can't be established.
ECDSA key fingerprint is SHA256:0m14cweWk8LG7oV+1Hd4b9VNw34hfeSbwS1SzAlfv0k.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-86-187-173.compute-1.amazonaws.com,3.86.187.173' (ECDSA) to the list of known hosts.

      #_
     #### Amazon Linux 2023
    /#####\
   /#####\
  /#####|
 /#####|
/#####| \#/\
          V~'-> https://aws.amazon.com/linux/amazon-linux-2023
         /---\
        /-----\
       /-----\
      /-----\
     /-----\
    /-----\
   /-----\
  /-----\
 /-----\
/-----\
/_m/'-----\

[ec2-user@ip-172-31-86-12 ~]$
```

```

ec2-user@ip-172-31-86-12 ~ %
Verifying      : perl-lib-0.65-477.amzn2023.0.4.x86_64      4/8
Verifying      : perl-File-Find-1.37-477.amzn2023.0.4.noarch 5/8
Verifying      : perl-Error-1:0.17029-5.amzn2023.0.2.noarch 6/8
Verifying      : perl-Git-2.40.1-1.amzn2023.0.1.noarch      7/8
Verifying      : git-core-doc-2.40.1-1.amzn2023.0.1.noarch  8/8

Installed:
git-2.40.1-1.amzn2023.0.1.x86_64      git-core-2.40.1-1.amzn2023.0.1.x86_64
git-core-doc-2.40.1-1.amzn2023.0.1.noarch  perl-Error-1:0.17029-5.amzn2023.0.2.noarch
perl-File-Find-1.37-477.amzn2023.0.4.noarch  perl-Git-2.40.1-1.amzn2023.0.1.noarch
perl-TermReadKey-2.38-9.amzn2023.0.2.x86_64  perl-lib-0.65-477.amzn2023.0.4.x86_64

Complete!
[ec2-user@ip-172-31-86-12 ~]$ git clone https://github.com/arthurguedes375/tic-tac-toe-react.git
Cloning into 'tic-tac-toe-react'...
remote: Enumerating objects: 285, done.
remote: Counting objects: 100% (275/275), done.
remote: Compressing objects: 100% (188/188), done.
remote: Total 285 (delta 124), reused 220 (delta 77), pack-reused 10
Receiving objects: 100% (285/285), 985.45 KiB | 18.25 MiB/s, done.
Resolving deltas: 100% (124/124), done.
[ec2-user@ip-172-31-86-12 ~]$ ls
tic-tac-toe-react
[ec2-user@ip-172-31-86-12 ~]$

```

Ahora descargo el nvm y confirmo su version

```
ec2-user@ip-172-31-86-12:~/tic-tac-toe-react
[ec2-user@ip-172-31-86-12 ~]$ cd tic-tac-toe-react/
[ec2-user@ip-172-31-86-12 tic-tac-toe-react]$ npm install
-bash: npm: command not found
[ec2-user@ip-172-31-86-12 tic-tac-toe-react]$ nvm install 16
-bash: nvm: command not found
[ec2-user@ip-172-31-86-12 tic-tac-toe-react]$ curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.1/install.sh |
bash
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100 15037  100 15037    0     0  270k    0 --:--:-- --:--:-- --:--:-- 271k
=> Downloading nvm from git to '/home/ec2-user/.nvm'
=> Cloning into '/home/ec2-user/.nvm'...
remote: Enumerating objects: 360, done.
remote: Counting objects: 100% (360/360), done.
remote: Compressing objects: 100% (306/306), done.
remote: Total 360 (delta 40), reused 170 (delta 28), pack-reused 0
Receiving objects: 100% (360/360), 219.83 KiB | 9.56 MiB/s, done.
Resolving deltas: 100% (40/40), done.
* (HEAD detached at FETCH_HEAD)
master
=> Compressing and cleaning up git repository

=> Appending nvm source string to /home/ec2-user/.bashrc
=> Appending bash_completion source string to /home/ec2-user/.bashrc
=> Close and reopen your terminal to start using nvm or run the following to use it now:

export NVM_DIR="$HOME/.nvm"
[ -s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh" # This loads nvm
[ -s "$NVM_DIR/bash_completion" ] && \. "$NVM_DIR/bash_completion" # This loads nvm bash_completion
```

```
[ec2-user@ip-172-31-86-12 tic-tac-toe-react]$ nvm -v
0.39.1
[ec2-user@ip-172-31-86-12 tic-tac-toe-react]$
```

```
0.39.1
[ec2-user@ip-172-31-86-12 tic-tac-toe-react]$ nvm install 16
Downloading and installing node v16.20.0...
Downloading https://nodejs.org/dist/v16.20.0/node-v16.20.0-linux-x64.tar.xz...
##### 100.0%
Computing checksum with sha256sum
Checksums matched!
Now using node v16.20.0 (npm v8.19.4)
Creating default alias: default -> 16 (-> v16.20.0)
[ec2-user@ip-172-31-86-12 tic-tac-toe-react]$
```

Ahora instalo el nodejs

```
[-=sec-severity {critical,important,moderate,medium,low}] [-=forsearch ARCH]
PACKAGE [PACKAGE ...]
yum install: error: the following arguments are required: PACKAGE
[ec2-user@ip-172-31-86-12 tic-tac-toe-react]$ sudo yum install -y nodejs
Last metadata expiration check: 0:14:09 ago on Wed Jun 14 03:25:03 2023.
Dependencies resolved.
=====
Package                Architecture      Version                               Repository      Size
=====
Installing:
nodejs                  x86_64            1:18.12.1-1.amzn2023.0.4             amazonlinux     100 k
Installing dependencies:
libbrotli               x86_64            1.0.9-4.amzn2023.0.2                 amazonlinux     315 k
nodejs-libs             x86_64            1:18.12.1-1.amzn2023.0.4             amazonlinux     14 M
Installing weak dependencies:
nodejs-docs             noarch            1:18.12.1-1.amzn2023.0.4             amazonlinux     7.2 M
nodejs-full-i18n        x86_64            1:18.12.1-1.amzn2023.0.4             amazonlinux     8.2 M
npm                     x86_64            1:8.19.2-1.18.12.1.1.amzn2023.0.4    amazonlinux     2.0 M
=====
Transaction Summary
-----
Install 6 Packages
```

Y ahora confirmo la versión de node

```
node. Bad option: -v
[ec2-user@ip-172-31-86-12 tic-tac-toe-react]$ node -v
v16.20.0
[ec2-user@ip-172-31-86-12 tic-tac-toe-react]$
```

Instalo npm

```
v16.20.0
[ec2-user@ip-172-31-86-12 tic-tac-toe-react]$ npm install
( ) idealTree:@testing-library/react: sill fetch manifest scheduler@0.19.1
```

Ahora uso npm start para iniciarlo

```
npm notice ChangeLog: https://github.com/npm/cli/releases/tag/v9.7.1
npm notice Run npm install -g npm@9.7.1 to update!
npm notice
[ec2-user@ip-172-31-86-12 tic-tac-toe-react]$ npm start
```

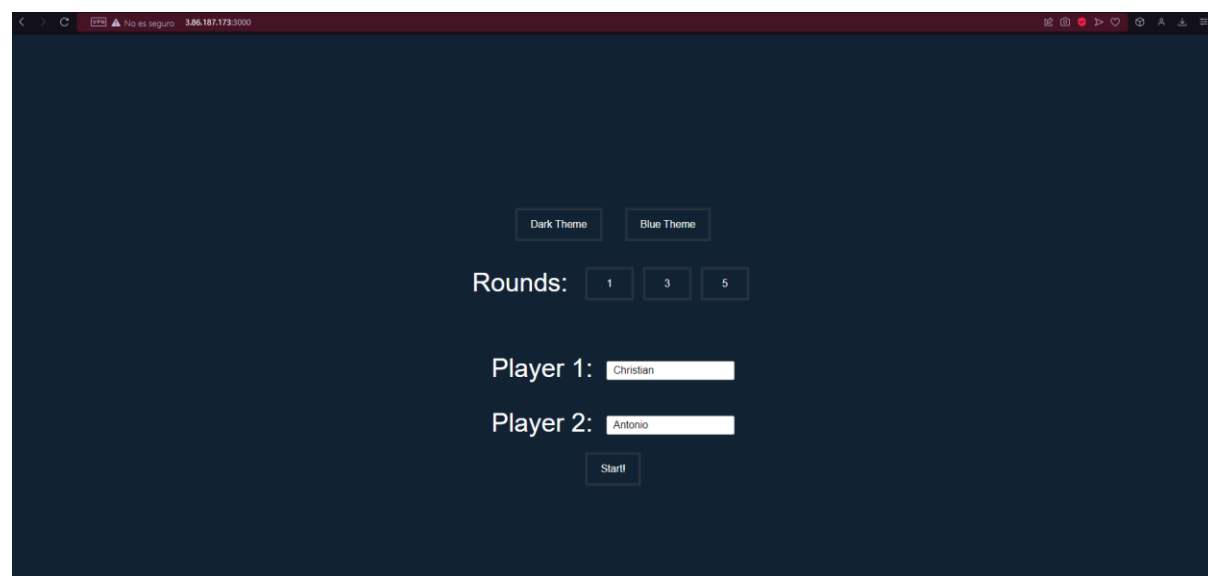
```
ec2-user@ip-172-31-86-12:~/tic-tac-toe-react
Compiled successfully!

You can now view tic-tac-toe-react in the browser.

  Local:            http://localhost:3000
  On Your Network:  http://172.31.86.12:3000

Note that the development build is not optimized.
To create a production build, use yarn build.
```

Y ahora ya puedo ingresar al proyecto desde mi ip con el puerto seleccionado que es: 3000



Ahora la segunda tarea es:

Levantar un servicio de fastapi en ec2.

Hago los mismo pasos que el anterior creando la clave y configurando algunas reglas que detallo mas abajo sobre las reglas, pero en vez de AWS, uso Ubuntu y ingreso por terminal donde guarde mi clave, pem.

```
C:\Users\Christian Encalada\Downloads>ssh -V
OpenSSH_for_Windows_8.1p1, LibreSSL 3.0.2

C:\Users\Christian Encalada\Downloads>_
```

Uso el comando que se ve a continuación:

```
C:\Users\Christian Encalada\Downloads>ssh -i "chrisproyect2.pem" ubuntu@ec2-54-164-196-119.compute-1.amazonaws.com
The authenticity of host 'ec2-54-164-196-119.compute-1.amazonaws.com (54.164.196.119)' can't be established.
ECDSA key fingerprint is SHA256:hLIj1itInVvEVW87VTziovqkGjoy2qfm6GH9WE8SxjI.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes_
```

```
Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

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

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-93-218:~$
```

Ahora instalo git en la maquina virtual que ya accedi

```
E: Package 'python3.8' has no installation candidate
ubuntu@ip-172-31-93-218:~$ sudo apt install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-1ubuntu1.9).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 58 not upgraded.
ubuntu@ip-172-31-93-218:~$ _
```

Ahora clono el repositorio de la tarea, con git clone.

```
0 upgraded, 0 newly installed, 0 to remove and 53 not upgraded.
ubuntu@ip-172-31-93-218:~$ git clone https://github.com/mdhishaamakhtar/fastapi-sqlalchemy-postgres-template.git
Cloning into 'fastapi-sqlalchemy-postgres-template'...
remote: Enumerating objects: 73, done.
remote: Counting objects: 100% (73/73), done.
remote: Compressing objects: 100% (52/52), done.
remote: Total 73 (delta 29), reused 52 (delta 17), pack-reused 0
Receiving objects: 100% (73/73), 31.27 KiB | 3.47 MiB/s, done.
Resolving deltas: 100% (29/29), done.
ubuntu@ip-172-31-93-218:~$
```

Ahora entro a la carpeta desde la maquina virtual y instalo python

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-93-218:~$ cd fastapi-sqlalchemy-postgres-template/
ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ sudo apt install python3-pip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3-pip is already the newest version (22.0.2+dfsg-1ubuntu0.3).
0 upgraded, 0 newly installed, 0 to remove and 53 not upgraded.
ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$
```

Y ahora instalo la virtualenv, que es el entorno virtual de desarrollo.

```
ERROR: NO MATCHING DISTRIBUTION FOUND FOR virtualenv
ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ sudo pip3 install virtualenv
Collecting virtualenv
  Downloading virtualenv-20.23.0-py3-none-any.whl (3.3 MB)
    3.3/3.3 MB 33.5 MB/s eta 0:00:00
Collecting platformdirs<4,>=3.2
  Downloading platformdirs-3.5.3-py3-none-any.whl (15 kB)
Collecting distlib<1,>=0.3.6
  Downloading distlib-0.3.6-py2.py3-none-any.whl (468 kB)
    468.5/468.5 KB 51.1 MB/s eta 0:00:00
Collecting filelock<4,>=3.11
  Downloading filelock-3.12.2-py3-none-any.whl (10 kB)
Installing collected packages: distlib, platformdirs, filelock, virtualenv
Successfully installed distlib-0.3.6 filelock-3.12.2 platformdirs-3.5.3 virtualenv-20.23.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system packa
ge manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv
ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$
```

```
ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ sudo apt install python3-venv
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  python3-pip-whl python3-setuptools-whl python3.10-venv
The following NEW packages will be installed:
  python3-pip-whl python3-setuptools-whl python3-venv python3.10-venv
0 upgraded, 4 newly installed, 0 to remove and 53 not upgraded.
Need to get 2474 kB of archives.
After this operation, 2888 kB of additional disk space will be used.
Do you want to continue? [Y/n] D
```

Instalamos la versión 3.8 de python

```
ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ sudo apt install python3.8
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libpython3.8-minimal libpython3.8-stdlib mailcap mime-support python3.8-minimal
Suggested packages:
  python3.8-venv binfmt-support
The following NEW packages will be installed:
  libpython3.8-minimal libpython3.8-stdlib mailcap mime-support python3.8 python3.8-minimal
0 upgraded, 6 newly installed, 0 to remove and 53 not upgraded.
Need to get 5099 kB of archives.
After this operation, 18.9 MB 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/main amd64 mailcap all 3.70+nmu1ubuntu1 [23.8 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 mime-support all 3.66 [3696 B]
Get:3 https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu jammy/main amd64 libpython3.8-minimal amd64 3.8.17-1+jammy1 [793 kB]
Get:4 https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu jammy/main amd64 python3.8-minimal amd64 3.8.17-1+jammy1 [2
```

Entramos al entorno virtual de desarrollo en python3.8 y instalamos “requirements.txt”

```
o VM guests are running outdated hypervisor (qemu) binaries on this host.
buntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ python3.8 -m venv .venv
buntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ source .venv/bin/activate
(.venv) ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ pip install -r requirements.txt
collecting aiofiles==0.5.0
  Downloading aiofiles-0.5.0-py3-none-any.whl (11 kB)
collecting aniso8601==7.0.0
  Downloading aniso8601-7.0.0-py2.py3-none-any.whl (42 kB)
    42.0/42.0 kB 1.3 MB/s eta 0:00:00
collecting appdirs==1.4.4
  Downloading appdirs-1.4.4-py2.py3-none-any.whl (9.6 kB)
collecting async-exit-stack==1.0.1
  Downloading async_exit_stack-1.0.1-py3-none-any.whl (4.7 kB)
collecting async-generator==1.10
  Downloading async_generator-1.10-py3-none-any.whl (18 kB)
collecting atomicwrites==1.4.0
  Downloading atomicwrites-1.4.0-py2.py3-none-any.whl (6.8 kB)
collecting attrs==20.3.0
  Downloading attrs-20.3.0-py2.py3-none-any.whl (49 kB)
    49.3/49.3 kB 7.9 MB/s eta 0:00:00
collecting black==20.8b1
  Downloading black-20.8b1.tar.gz (1.1 MB)
    1.1/1.1 MB 39.5 MB/s eta 0:00:00
Installing build dependencies ... |
```

Hacemos otra instalación de Python-decouple

```
[notice] A new release of pip is available: 23.0.1 -> 23.1.2
[notice] To update, run: pip install --upgrade pip
(.venv) ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ pip install python-dotenv python-decouple
Collecting python-dotenv
  Downloading python_dotenv-1.0.0-py3-none-any.whl (19 kB)
Collecting python-decouple
  Downloading python_decouple-3.8-py3-none-any.whl (9.9 kB)
Installing collected packages: python-decouple, python-dotenv
Successfully installed python-decouple-3.8 python-dotenv-1.0.0

[notice] A new release of pip is available: 23.0.1 -> 23.1.2
[notice] To update, run: pip install --upgrade pip
(.venv) ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$
```

Instalamos postgresql

```
[notice] A new release of pip is available: 23.0.1 -> 23.1.2
[notice] To update, run: pip install --upgrade pip
(.venv) ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ sudo apt install postgresql
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libcommon-sense-perl libjson-perl libjson-xs-perl libllvm14 libsensors-config libsensors5 libtypes-serialiser-perl
  postgresql-14 postgresql-client-14 postgresql-client-common postgresql-common ssl-cert sysstat
Suggested packages:
```

Ahora use el comando que se ve a continuación para ver el estado del servicio

```
sudo: postgresql: command not found
(.venv) ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ sudo service postgresql status
● postgresql.service - PostgreSQL RDBMS
   Loaded: loaded (/lib/systemd/system/postgresql.service; enabled; vendor preset: enabled)
   Active: active (exited) since Wed 2023-06-14 04:17:36 UTC; 44s ago
     Process: 6649 ExecStart=/bin/true (code=exited, status=0/SUCCESS)
    Main PID: 6649 (code=exited, status=0/SUCCESS)
       CPU: 1ms

Jun 14 04:17:36 ip-172-31-93-218 systemd[1]: Starting PostgreSQL RDBMS...
Jun 14 04:17:36 ip-172-31-93-218 systemd[1]: Finished PostgreSQL RDBMS.
(.venv) ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$
```



Ahora entro a postgres en la maquina y de ahí pongo psql, para entrar normal

```
Jun 14 04:17:36 ip-172-31-93-218 systemd[1]: Starting PostgreSQL RDBMS...
Jun 14 04:17:36 ip-172-31-93-218 systemd[1]: Finished PostgreSQL RDBMS.
(.venv) ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ sudo -i -u postgres
postgres@ip-172-31-93-218:~$ psql
psql (14.8 (Ubuntu 14.8-0ubuntu0.22.04.1))
Type "help" for help.

postgres=#
```

Y uso este comando para crear mi usuario y contraseña

```
postgres=# ALTER USER postgres WITH PASSWORD '12345';
ALTER ROLE
postgres=#
```

actualizo

```
[notice] A new release of pip is available: 23.0.1 -> 23.1.2
[notice] To update, run: pip install --upgrade pip
(.venv) ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ uvicorn main:app
INFO: Started server process [6807]
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)
```

Instalo el nginx

```
INFO: Finished server process [6807]
(.venv) ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ cd
(.venv) ubuntu@ip-172-31-93-218:~$ sudo apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nginx 1:1.24.0-1ubuntu1 is already installed.
```

Ahora entrando de nuevo a fastapi con la maquina virtual, uso el comando uvicorn main:app y corro los servicios que ahora me dejaron entrar con mi dirección de ip publica.

```
(.venv) ubuntu@ip-172-31-93-218:~$ cd fastapi-sqlalchemy-postgres-template/
(.venv) ubuntu@ip-172-31-93-218:~/fastapi-sqlalchemy-postgres-template$ uvicorn main:app
INFO: Started server process [7375]
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)
INFO: 127.0.0.1:59644 - "GET / HTTP/1.0" 200 OK
```

Estas fueron las 2 reglas que agregue, y junto a ellas se pueden ver las demás que vienen por defecto.

Reglas de entrada (5)									
<input type="text" value="Filtrar reglas de grupo de seguridad"/>									
<input type="checkbox"/>	Name	ID de la regla del g...	Versión de IP	Tipo	Protocolo	Intervalo de puertos	Origen	Descripción	
<input type="checkbox"/>	-	sgr-048e6fecabdf2f8cc	IPv4	TCP personalizado	TCP	8000	0.0.0.0/0	-	
<input type="checkbox"/>	-	sgr-066f01d388186b4...	IPv4	Todo el tráfico	Todo	Todo	0.0.0.0/0	-	
<input type="checkbox"/>	-	sgr-0bff1cde8868abf98	IPv4	SSH	TCP	22	0.0.0.0/0	-	
<input type="checkbox"/>	-	sgr-0d891e9cd292f1263	IPv4	HTTPS	TCP	443	0.0.0.0/0	-	
<input type="checkbox"/>	-	sgr-0e75d5e648a8be7...	IPv4	HTTP	TCP	80	0.0.0.0/0	-	

Y aquí se ve como ya puede ingresar:

