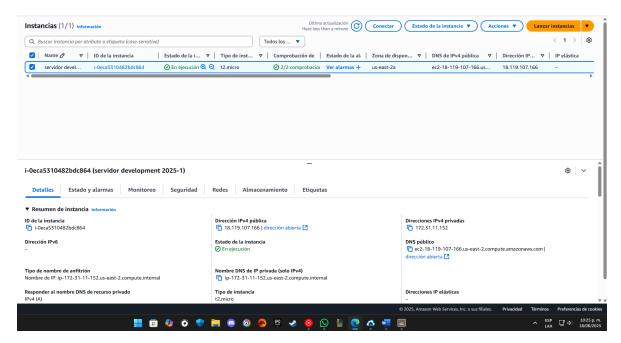
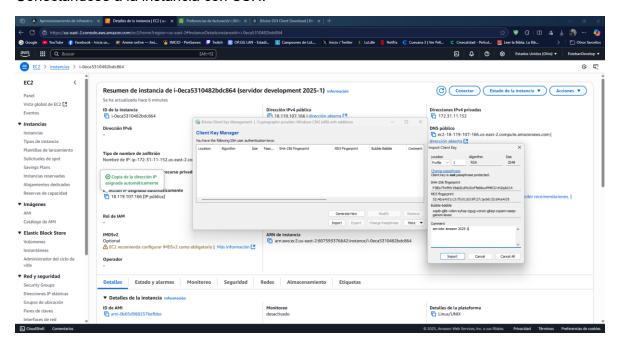
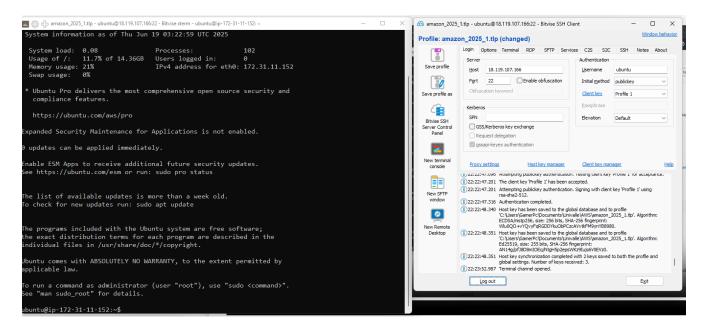
Creacion de una instancia EC2 en el Free Tier.



Conectandose a la instancia con SSH.



Login



Instalar nginx

```
ubuntu@ip-172-31-11-152:~$ sudo apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo8
 libjpeg8 libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter
 libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libtiff5 libwebp7 libxpm4
 nginx-common nginx-core
Suggested packages:
 libgd-tools fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
 fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo8
 libjpeg8 libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter
 libnginx-mod-mail libnginx-mod-stream libnginx-mod-stream-geoip2 libtiff5 libwebp7 libxpm4 nginx
 nginx-common nginx-core
upgraded, 20 newly installed, 0 to remove and 55 not upgraded.
Need to get 2693 kB of archives.
After this operation, 8346 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 fonts-dejavu-core all 2.37-2bu
ild1 [1041 kB]
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 fontconfig-config all 2.13.1-4
.2ubuntu5 [29.1 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libdeflate0 amd64 1.10-2 [70.9
kB1
Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libfontconfig1 amd64 2.13.1-4.
```

Instalando Java y Postgresql

ubuntu@ip-172-31-11-152:~\$

```
ubuntu@ip-172-31-11-152:~$ java -version
openjdk version "17.0.15" 2025-04-15
OpenJDK Runtime Environment (build 17.0.15+6-Ubuntu-0ubuntu122.04)
OpenJDK 64-Bit Server VM (build 17.0.15+6-Ubuntu-0ubuntu122.04, mixed mode, sharing)
ubuntu@ip-172-31-11-152:~$
ubuntu@ip-172-31-11-152:~$ psql -V
psql (PostgreSQL) 14.18 (Ubuntu 14.18-0ubuntu0.22.04.1)
```

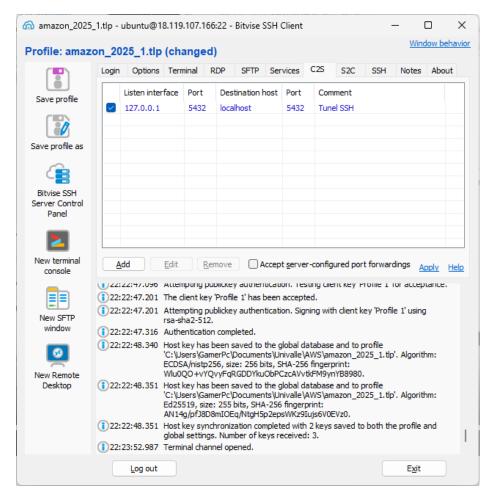
```
ubuntu@ip-172-31-11-152:~$ ss -pnltue|grep postgresql
tcp LISTEN 0 244 127.0.0.1:5432 0.0.0.0:*

system.slice/system-postgresql.slice/postgresql@14-main.service <->
ubuntu@ip-172-31-11-152:~$ sudo su postgres
                                                                             uid:115 ino:19684 sk:8 cgroup:
postgres@ip-172-31-11-152:/home/ubuntu$ psql
could not change directory to "/home/ubuntu": Permission denied
psql (14.18 (Ubuntu 14.18-0ubuntu0.22.04.1))
Type "help" for help.
postgres=# CREATE USER devdb WITH ENCRYPTED PASSWORD 'a1b2c3d4';
postgres=# ALTER USER postgres PASSWORD 'a1b2c3d4';
ALTER ROLE
postgres=# \q
postgres@ip-172-31-11-152:/home/ubuntu$ ss -pnltue|grep nginx
tcp LISTEN 0 511
                                        0.0.0.0:80
                                                              0.0.0.0:*
                                                                             ino:11674 sk:6 cgroup:/system.s
lice/nginx.service <->
tcp LISTEN 0
                                              [::]:80
                                                                             ino:11675 sk:a cgroup:/system.s
lice/nginx.service v6only:1 <->
postgres@ip-172-31-11-152:/home/ubuntu$
```

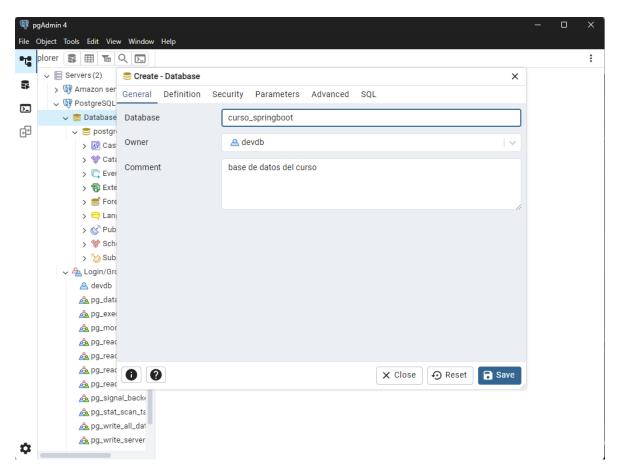
Apertura del puerto web (80) en la consola de EC2



Creacion de un tunel C2S para pgadmin



Configurando pgadmin con postgresql



Creando un par de llaves RSA con passphrase

```
🗾 💮 👇 amazon_2025_1.tlp - ubuntu@18.119.107.166:22 - Bitvise xterm - ubuntu@ip-172-31-11-152: ~/.ssh
                                                                                                   ×
Run 'do-release-upgrade' to upgrade to it.
Last login: Thu Jun 19 04:05:25 2025 from 186.98.47.20
ubuntu@ip-172-31-11-152:~$ cd .ssh
ubuntu@ip-172-31-11-152:~/.ssh$ ls -la
drwx----- 2 ubuntu ubuntu 4096 Jun 19 03:12 .
drwxr-x--- 4 ubuntu ubuntu 4096 Jun 19 03:46 ..
-rw------ 1 ubuntu ubuntu 401 Jun 19 03:12 authorized_keys
ubuntu@ip-172-31-11-152:~/.ssh$ ssh-keygen -t RSA -m PEM -b 2048
Generating public/private RSA key pair.
Enter file in which to save the key (/home/ubuntu/.ssh/id_rsa): id_rsa_aws_2025_1_pass
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in id_rsa_aws_2025_1_pass
Your public key has been saved in id_rsa_aws_2025_1_pass.pub
The key fingerprint is:
SHA256:GkyYefBT7moXa8DHI32uRZ/HryUSigxo5Q6whGB5k/w ubuntu@ip-172-31-11-152
The key's randomart image is:
 ---[RSA 2048]----
 ..0 0 .
00 = * 0
   . o X O o +
      .000+
 ----[SHA256]----+
ubuntu@ip-172-31-11-152:~/.ssh$ ls
authorized_keys id_rsa_aws_2025_1_pass id_rsa_aws_2025_1_pass.pub
ubuntu@ip-172-31-11-152:~/.ssh$ cat id_rsa_aws_2025_1_pass.pub >> authorized_keys
ubuntu@ip-172-31-11-152:~/.ssh$
```

