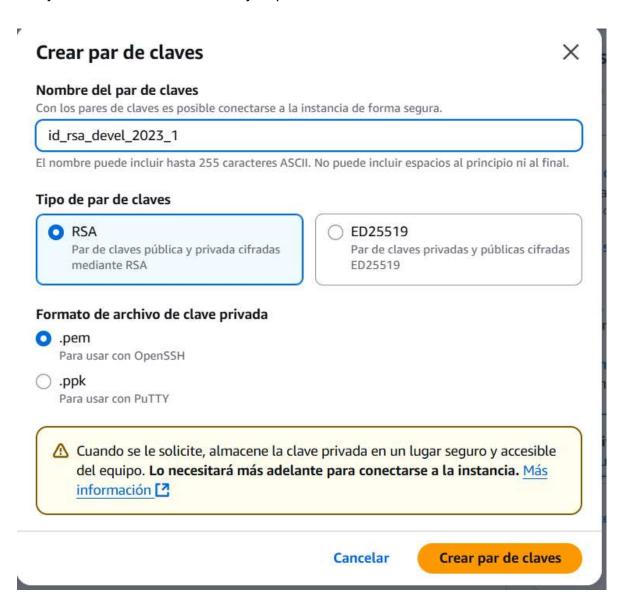
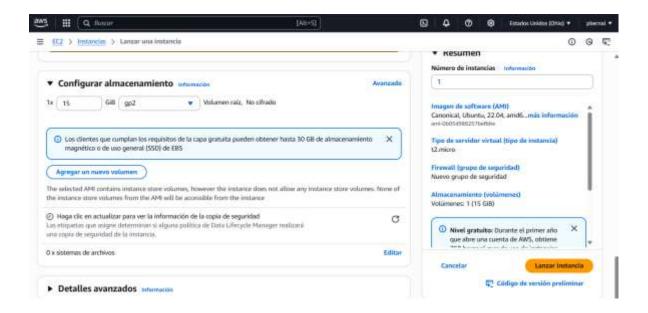
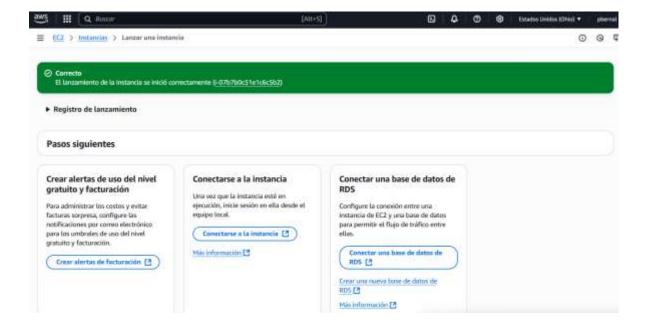
Codelab de Aprovisionamiento de infraestructura en Amazon EC2 para desarrollo. A continuación el paso a paso en imágenes Pedro Bernal Londoño 2259548 – 3743.

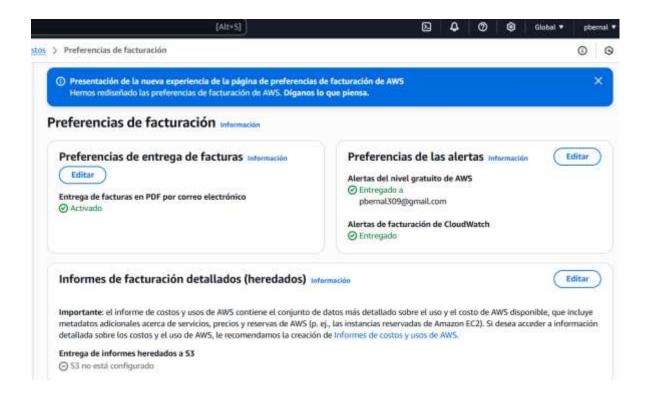


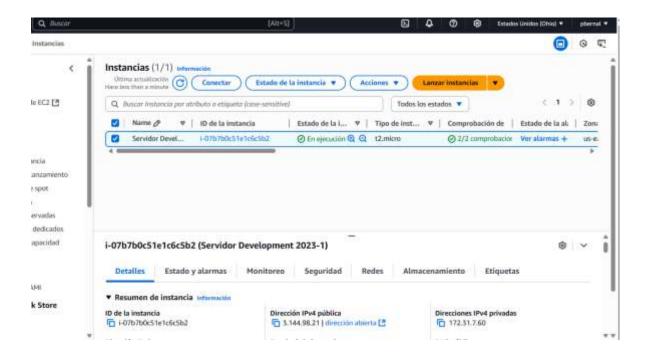
Acá ya se había creado la cuenta y se procedió con EC2

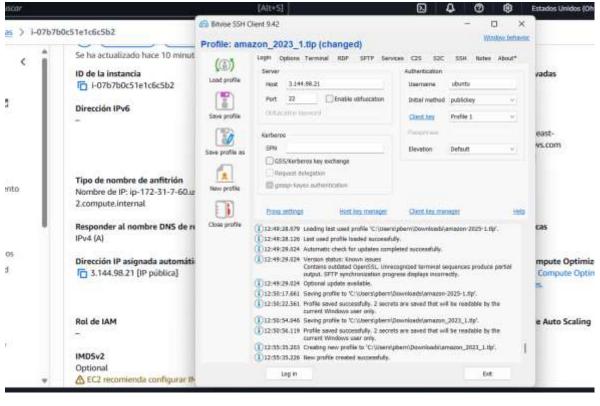










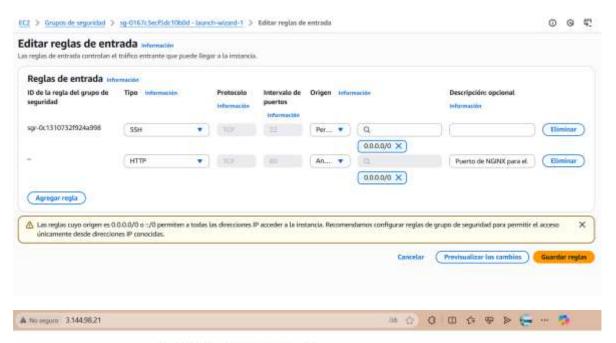


```
🛃 💮 🛟 amazon_2023_1.tlp - ubuntu@3.144.98.21:22 - Bitvise xterm - ubuntu@ip-172-31-7-60: ~
                                                                                                            п
Get:30 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [359 kB]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [3520 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [630 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [977 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [211 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [21.7 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [39.6 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [8716 B]
Get:38 http://security.ubuntu.com/ubuntu_jammy-security/multiverse amd64 c-n-f Metadata [368 B]
Fetched 38.0 MB in 23s (1666 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
41 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-7-60:~$ 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 libdeflate@ libfontconfig1 libgd3 libjbig@ libjpeg-turbo&
  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
 uggested packages:
  libgd-tools fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  fontconfig-config fonts-dejavu-core libdeflate@ libfontconfig1 libgd3 libjbig@ libjpeg-turbo@
  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 41 not upgraded.
Weed 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]
```

```
0
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-172-31-7-60:∼$ java -version
Command 'java' not found, but can be installed with:
sudo apt install openjdk-11-jre-headless # version 11.0.26+4-1ubuntu1~22.04, or
sudo apt install default-jre
                                               # version 2:1.11-72build2
sudo apt install openjdk-17-jre-headless # version 17.0.14+7-1~22.04.1
sudo apt install openjdk-18-jre-headless # version 18.0.2+9-2~22.04
sudo apt install openjdk-19-jre-headless # version 19.0.2+7-0ubuntu3~22.04
sudo apt install openjdk-21-jre-headless # version 21.0.6+7-1~22.04.1
sudo apt install openjdk-8-jre-headless # version 8u442-b06~us1-0ubuntu1~22.04
ubuntu@ip-172-31-7-60:~$ ^C
ubuntu@ip-172-31-7-60:~$ sudo apt install openjdk-17-jre-headless
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
 alsa-topology-conf alsa-ucm-conf ca-certificates-java java-common libasound2 libasound2-data
  libavahi-client3 libavahi-common-data libavahi-common3 libcups2 libgraphite2-3 libharfbuzz@b
  liblcms2-2 libpcsclite1
Suggested packages:
 default-jre libasound2-plugins alsa-utils cups-common liblcms2-utils pcscd libnss-mdns
  fonts-dejavu-extra fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei
  | fonts-wqy-zenhei fonts-indic
The following NEW packages will be installed:
 alsa-topology-conf alsa-ucm-conf ca-certificates-java java-common libasound2 libasound2-data
  libavahi-client3 libavahi-common-data libavahi-common3 libcups2 libgraphite2-3 libharfbuzz0b
  liblcms2-2 libpcsclite1 openjdk-17-jre-headless
0 upgraded, 15 newly installed, 0 to remove and 41 not upgraded.
Need to get 49.7 MB of archives.
After this operation, 198 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-7-60:∼$ java -version
openjdk version "17.0.15" 2025-04-15
OpenJDK Runtime Environment (build 17.0.15+6-Ubuntu-Oubuntu122.04)
OpenJDK 64-Bit Server VM (build 17.0.15+6-Ubuntu-Oubuntu122.04, mixed mode, sharing)
ubuntu@ip-172-31-7-60:∼$ sudo apt install postgresql postgresql-contrib -y
```

```
No VM guests are running outdated hypervisor (gemu) binaries on this host.
ubuntu@ip-172-31-7-60:~$ psql -v
/usr/lib/postgresql/14/bin/psql: option requires an argument -- 'v'
Try "psql --help" for more information.
ubuntu@ip-172-31-7-60:~$ psql -V
psql (PostgreSQL) 14.18 (Ubuntu 14.18-0ubuntu0.22.04.1)
ubuntu@ip-172-31-7-60:~$ ss -pnltue|grep postgresql
tcp LISTEN 0 244 127.0.0.1:5432 0.0.0.0:*
stem.slice/system-postgresql.slice/postgresql@14-main.service <->
                                                                              uid:115 ino:19539 sk:8 cgroup:/sy
ubuntu@ip-172-31-7-60:~$ sudo su postgres
postgres@ip-172-31-7-60:/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';
CREATE ROLE
postgres=# \q
postgres@ip-172-31-7-60:/home/ubuntu$ ss -pnltue|grep nginx
tcp LISTEN 0
                                                               0.0.0.0:*
                      511
                                          0.0.0.0:80
                                                                              ino:11541 sk:6 cgroup:/system.sli
ce/nginx.service <->
tcp LISTEN 0
                      511
                                              [::]:80
                                                                              ino:11542 sk:9 cgroup:/system.sli
ce/nginx.service v6only:1 <->
postgres@ip-172-31-7-60:/home/ubuntu$
```

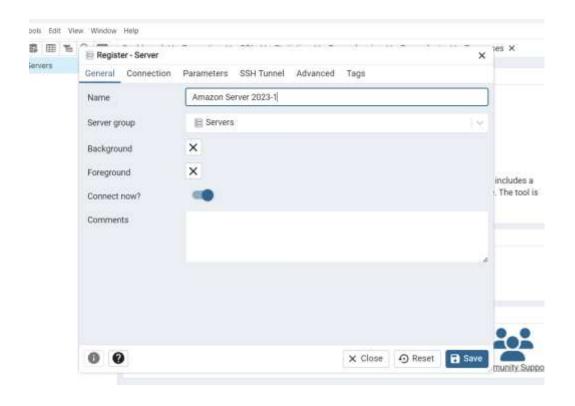


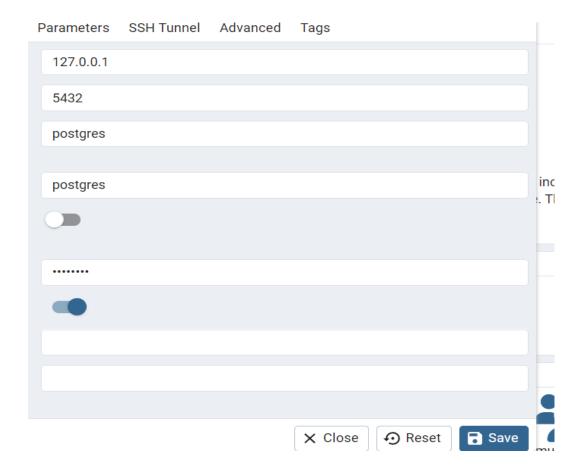
Welcome to nginx!

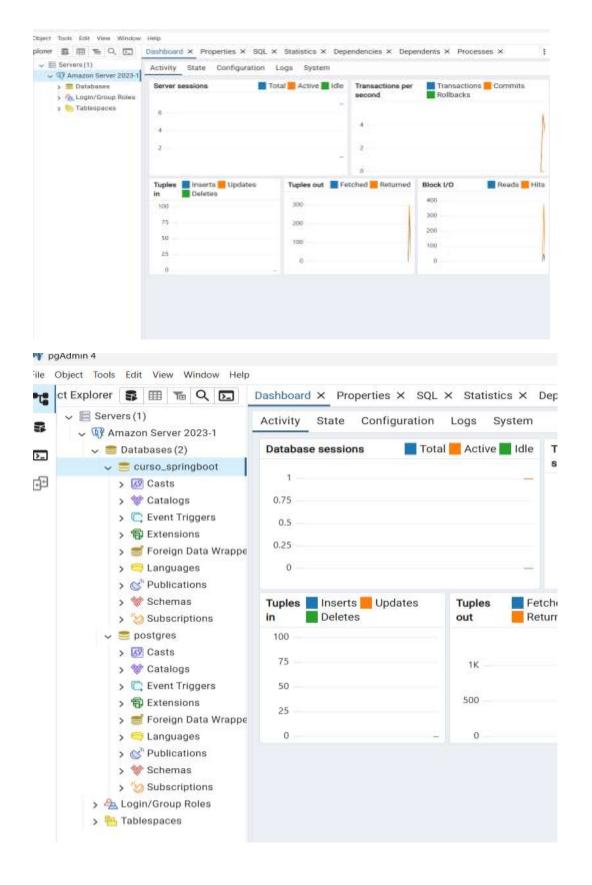
If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to <u>nginx.org</u>. Commercial support is available at <u>nginx.com</u>.

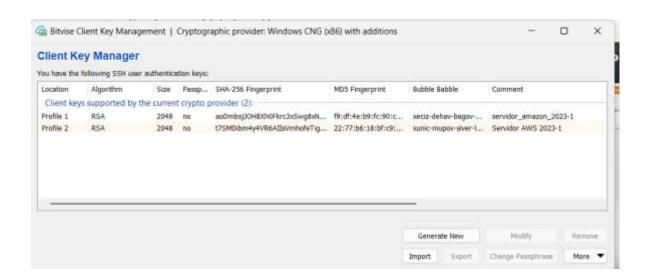
Thank you for using nginx.

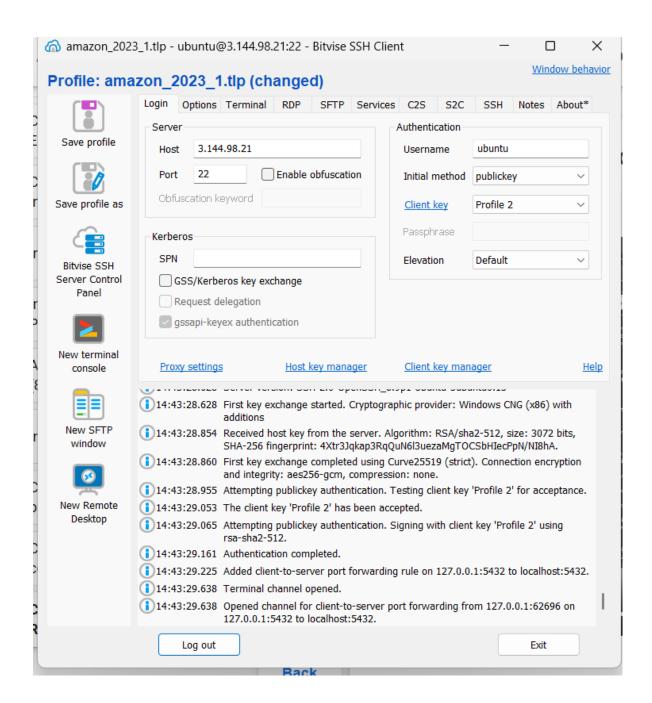






```
ubuntu@ip-172-31-7-60:~$ cd .ssh
ubuntu@ip-172-31-7-60:~/.ssh$ ls
authorized_keys
ubuntu@ip-172-31-7-60:~/.ssh$ ls -la
total 12
drwx----- 2 ubuntu ubuntu 4096 Jun 16 17:40
drwxr-x--- 4 ubuntu ubuntu 4096 Jun 16 18:32
rw----- 1 ubuntu ubuntu 401 Jun 16 17:40 authorized keys
ubuntu@ip-172-31-7-60:~/.ssh$ 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_2023_1_pass
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in id rsa aws 2023 1 pass
Your public key has been saved in id_rsa_aws_2023_1_pass.pub
The key fingerprint is:
SHA256:t7SMDibm4y4VR6AIIsVmhofeTig2/RMWgBcCMX613ig ubuntu@ip-172-31-7-60
The key's randomart image is:
+---[RSA 2048]----+
OBoo+o
B+80..0
0**. 0.
 .=.+00+
o +Eo=..S o
   .00 = 0
  .0.0 0
 ----[SHA256]----+
ubuntu@ip-172-31-7-60:~/.ssh$ 1s
authorized_keys id_rsa_aws_2023_1_pass id_rsa_aws_2023_1_pass.pub
ubuntu@ip-172-31-7-60:~/.ssh$ cat id_rsa_aws_2023_1_pass.pub >> authorized_keys
ubuntu@ip-172-31-7-60:~/.ssh$
```





Archivos:

