

Codelab Aprovisionamiento de instancias de computo

Desarrollo de Software III

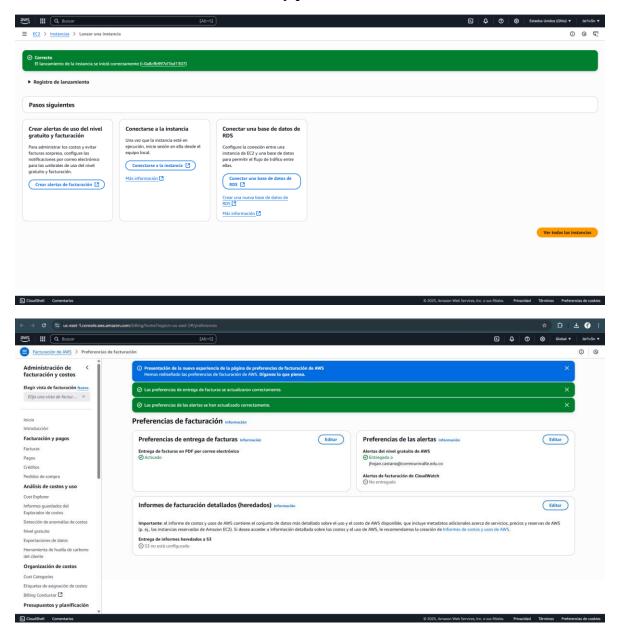
Jhojan Stiven Castaño Jejen-2259476

Universidad Del Valle

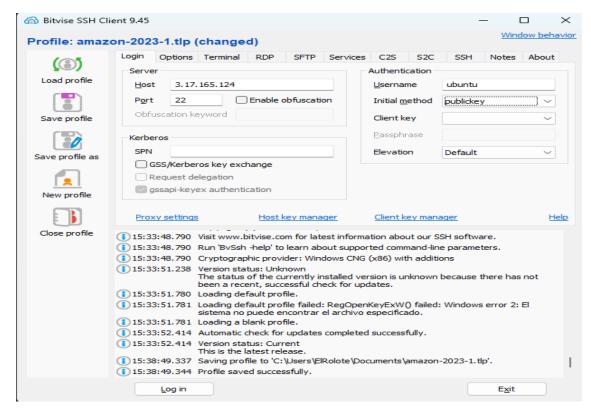
Sede Tuluá

Septimo Semestre

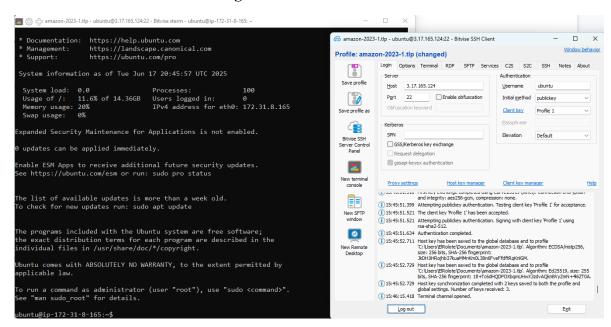
Instancia Lanzada y preferencias actualizadas



Configuracion Bitvise



Configuracion instancia con SSH



Instalacion de NGINX

```
X .service.

X .service.

X .service.

X .service.

X .service.

Setting up libjbig@:amd64 (2.1-3.1ubuntu@.22.04.1) ...

Setting up libjpig@:amd64 (2.1-3.1ubuntu@.22.04.1) ...

Setting up libjpigm:amod-http-xslt-filter (1.18.0-6ubuntu14.6) ...

Setting up libjpigp-turbo8:amd64 (2.1.2-Qubuntu1) ...

Setting up libjpigp-turbo8:amd64 (2.1.2-Qubuntu1) ...

Setting up libjpigp-turbo8:amd64 (2.1.2-Qubuntu1) ...

Setting up libjpigs:amd64 (1.2.2-Zubuntu0.22.04.2) ...

Setting up libjpigs:amd64 (8c-Zubuntu0.2) ...

Setting up libjpigs:amd64 (8c-Zubuntu0.2) ...

Setting up libjpigs:amd64 (2.13.1-4.Zubuntu14.6) ...

Setting up libjpigs:amd64 (2.13.1-4.Zubuntu14.6) ...

Setting up libjpigs:amd64 (2.3.0-Gubuntu14.6) ...

Setting up libjpigs:amd64 (2.3.0-Zubuntu0.2) ...

Setting up libjpigs:amd64 (2.3.0-Zubuntu2.3) ...

Poccessing triggers for ufw (0.36.1-Aubuntu0.1) ...

Processing triggers for libc-bin (2.35-0ubuntu3.9) ...

Processing triggers for libc-bin (2.35-0ubuntu3.9) ...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers 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No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
```

Instalacion de java y postgresql

```
Data page checksums are disabled.

fixing permissions on existing directory /var/lib/postgresql/14/main ... ok creating subdirectories ... ok selecting dynamic shared memory implementation ... posix selecting default max connections ... 100 selecting default max connections ... 100 selecting default shared buffers ... 128MB selecting default time zone ... Etc/UTC creating configuration files ... ok performing post-bootstrap initialization ... ok syncing data to disk ... ok performing post-bootstrap initialization ... ok syncing data to disk ... ok performing post-bootstrap initialization ... ok syncing data to disk ... ok performing post-bootstrap initialization ... ok syncing up ostgresql (14+238) ... processing triggers for mandal (14+238) ... processing triggers for mandal (2.10-2-1) ... processing triggers for mandal (2.10-2-1) ... processing triggers for mandal (2.35-0ubuntu3.9) ... Scanning 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-172-31-8-165:~$ java -version penjdk version "17.0.15" 2025-04-15

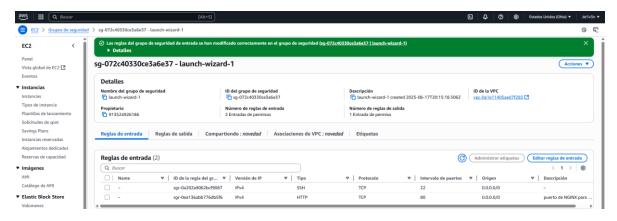
OpenJDK Runtime Environment (build 17.0.15+6-Ubuntu-Oubuntu122.04) mixed mode, sharing) ubuntu@ip-172-31-8-165:~$ ■
```

```
ubuntu@ip-172-31-8-165:~$ psql -V
psql (PostgreSQL) 14.18 (Ubuntu 14.18-0ubuntu0.22.04.1)
ubuntu@ip-172-31-8-165:~$
```

Uso de comandos por consola de postgre sql

```
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-172-31-8-165:~$ 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-172-31-8-165:~$ psql -v
/usr/lib/postgresql/14/bin/psql: option requires an argument -- 'v'
Try "psql --help" for more information.
ubuntu@ip-172-31-8-165:~$ psql -V
psql (PostgreSQL) 14.18 (Ubuntu 14.18-0ubuntu0.22.04.1)
ubuntu@ip-172-31-8-165:~$ sr-pnltue|grep postgresql
tcp LISTEN 0 244 127.0.0.1:5432 0.0.0.0:* uid:115 ino:19776
ystem.slice/system-postgresql.slice/postgresql@14-main.service <->
ubuntu@ip-172-31-8-165:~$ sudo su postgres
postgres@ip-172-31-8-165: budo su postgres
postgres@ip-172-31-8-165: budo su postgres
postgres@ip-172-31-8-165: 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.
                                                                                                                                                               uid:115 ino:19776 sk:5 cgroup:/s
  oostgres=# CREATE USER devdb WITH ENCRYPTED PASSWORD 'a1b2c3d4';
 CREATE ROLE
postgres=# ALTER USER postgres PASSWORD 'a1b2c3d4';
ALTER ROLE
  postgres=# \q
postgres@ip-172-31-8-165:/home/ubuntu$
              LISTEN 0
                                               511
                                                                                        0.0.0.0:80
                                                                                                                                   0.0.0.0:*
                                                                                                                                                                  ino:11663 sk:7 cgroup:/system.sl
 ice/nginx.service <->
             LISTEN 0
                                                                                                                                                                 ino:11664 sk:9 cgroup:/system.sl
 tcp
 ice/nginx.service v6only:1 <->
                            -172-31-8-165:/home/ubuntu
```

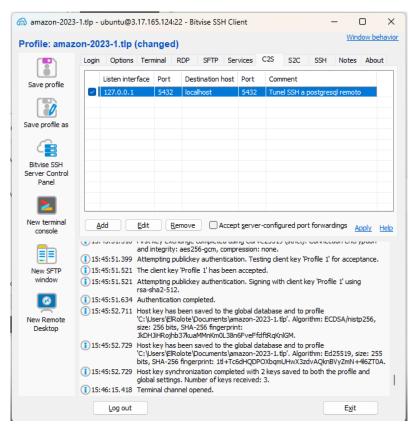
Agregar nueva regla del grupo de seguridad



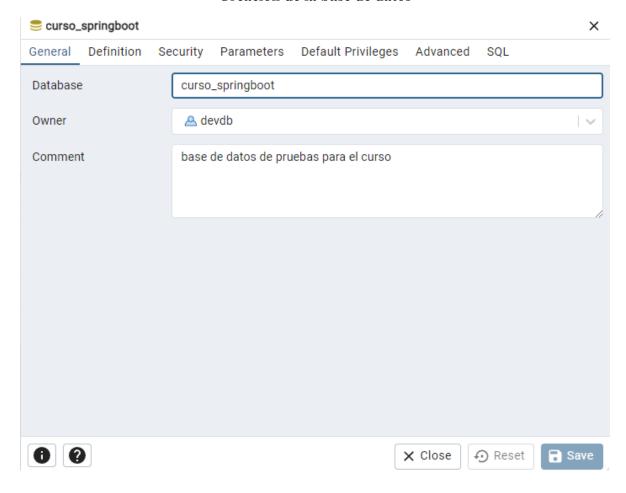
Acceso del nginx por medio del puerto publico



Creacion del túnel ssh al postgresql



Creación de la base de datos



Creación del SSH

```
×
🗾 🞊 🛟 amazon-2023-1.tlp - ubuntu@3.17.165.124:22 - Bitvise xterm - ubuntu@ip-172-31-8-165: ~/.ssh
ubuntu@ip-172-31-8-165:~$ cd .ssh
ubuntu@ip-172-31-8-165:~/.ssh$ ls
authorized_keys
ubuntu@ip-172-31-8-165:~/.ssh$ ls -la
total 12
drwx----- 2 ubuntu ubuntu 4096 Jun 17 20:20 .
drwxr-x--- 4 ubuntu ubuntu 4096 Jun 17 21:14 ..
-rw------ 1 ubuntu ubuntu 401 Jun 17 20:20 authorized_keys
ubuntu@ip-172-31-8-165:~/.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:Mv7lrvrph9RH34+RvAUHB9lyK0zzw3XuGmNoUbmCzjI ubuntu@ip-172-31-8-165
The key's randomart image is:
  --[RSA 2048]----
              .= |
o* *|
             .o.+B+
      . oE + + 0 +
       .+*+0
   --[SHA256]----+
ubuntu@ip-172-31-8-165:~/.ssh$ ls
authorized_keys id_rsa_aws_2023_1_pass id_rsa_aws_2023_1_pass.pub
ubuntu@ip-172-31-8-165:~/.ssh$ cat id_rsa_aws_2023_1_pass.hub >> authorized_keys
cat: id_rsa_aws_2023_1_pass.hub: No such file or directory
ubuntu@ip-172-31-8-165:~/.ssh$ cat id_rsa_aws_2023_1_pass.pub >> authorized_keys
ubuntu@ip-172-31-8-165:~/.ssh$
                                                                                                             ×
 📤 Bitvise Client Key Management | Cryptographic provider: Windows CNG (x86) with additions
                                                                                                      Client Key Manager
  You have the following SSH user authentication keys:
                                                                                       Bubble Babble
   Location
              Algorithm
                             Size Pass... SHA-256 Fingerprint
                                                                     MD5 Fingerprint
                                                                                                         Comment
    Client keys supported by the current crypto provider (2):
                                          mU0r6arjfK+PsVPX8kAbTAvHW... e7:fc:f1:49:26:fe:5... xudiv-dekyl-kygun-
                                          Mv7lrvrph9RH34+RvAUHB9lyK0... 05:9f:36:73:9e:70:... xonen-fynec-comor...
   Profile 2
                             2048 no
                  servidor amazon 2023-1
  SHA-256 fingerprint: mU0r6arjfK+PsVPX8kAbTAvHWmg6DKda9azBY+WtMYk
                                                                                          Modify
                                                                     Generate New
                                                                                                        Remove
  MD5 fingerprint:
                  e7:fc:f1:49:26:fe:56:14:20:57:30:26:71:ab:d7:29
```

xudiv-dekyl-kygun-nirad-solez-danor-kinyh-buveb-rilys-nynog-fexu Import

Export

Change Passphrase

More ▼

Bubble-babble: