



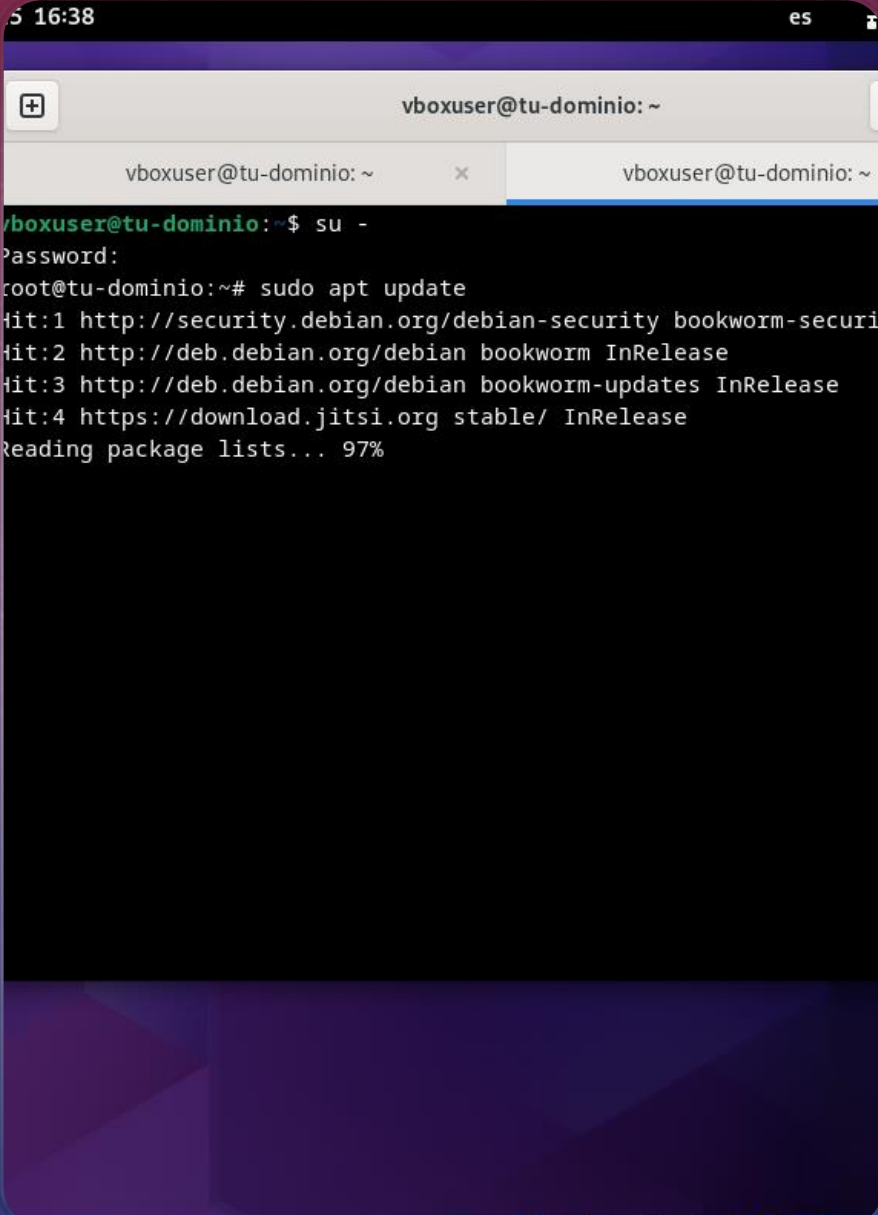
# MARIA DB EN DEBIAN Y DBEAVER

ASIGNATURA: COMPUTACION EN LA NUBE

PROFESOR: RONALD BARROS

ALUMNO: CATALINA BASCUÑAN

# ACTUALIZAMOS DEBIAN

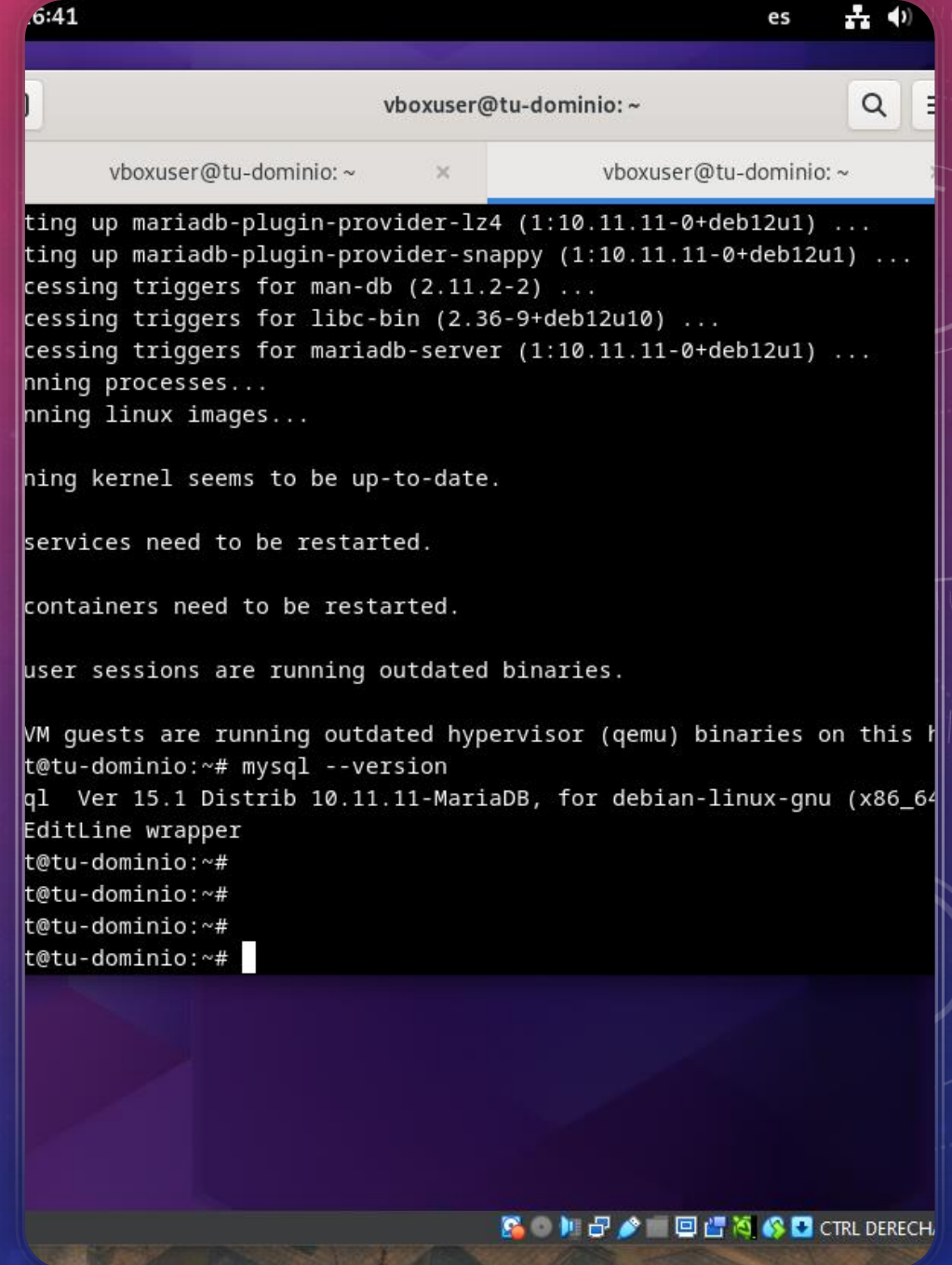


A terminal window titled 'vboxuser@tu-dominio: ~' with two tabs. The active tab shows the following commands and output:

```
vboxuser@tu-dominio:~$ su -
Password:
root@tu-dominio:~# sudo apt update
Hit:1 http://security.debian.org/debian-security bookworm-security InRelease
Hit:2 http://deb.debian.org/debian bookworm InRelease
Hit:3 http://deb.debian.org/debian bookworm-updates InRelease
Hit:4 https://download.jitsi.org stable/ InRelease
Reading package lists... 97%
```



# COMPROBAMOS



The screenshot shows a terminal window titled 'vboxuser@tu-dominio: ~'. The terminal output displays the following messages:

```
6:41 es
vboxuser@tu-dominio: ~
vboxuser@tu-dominio: ~
vboxuser@tu-dominio: ~
ting up mariadb-plugin-provider-lz4 (1:10.11.11-0+deb12u1) ...
ting up mariadb-plugin-provider-snappy (1:10.11.11-0+deb12u1) ...
cessing triggers for man-db (2.11.2-2) ...
cessing triggers for libc-bin (2.36-9+deb12u1) ...
cessing triggers for mariadb-server (1:10.11.11-0+deb12u1) ...
nning processes...
nning linux images...

ning kernel seems to be up-to-date.

services need to be restarted.

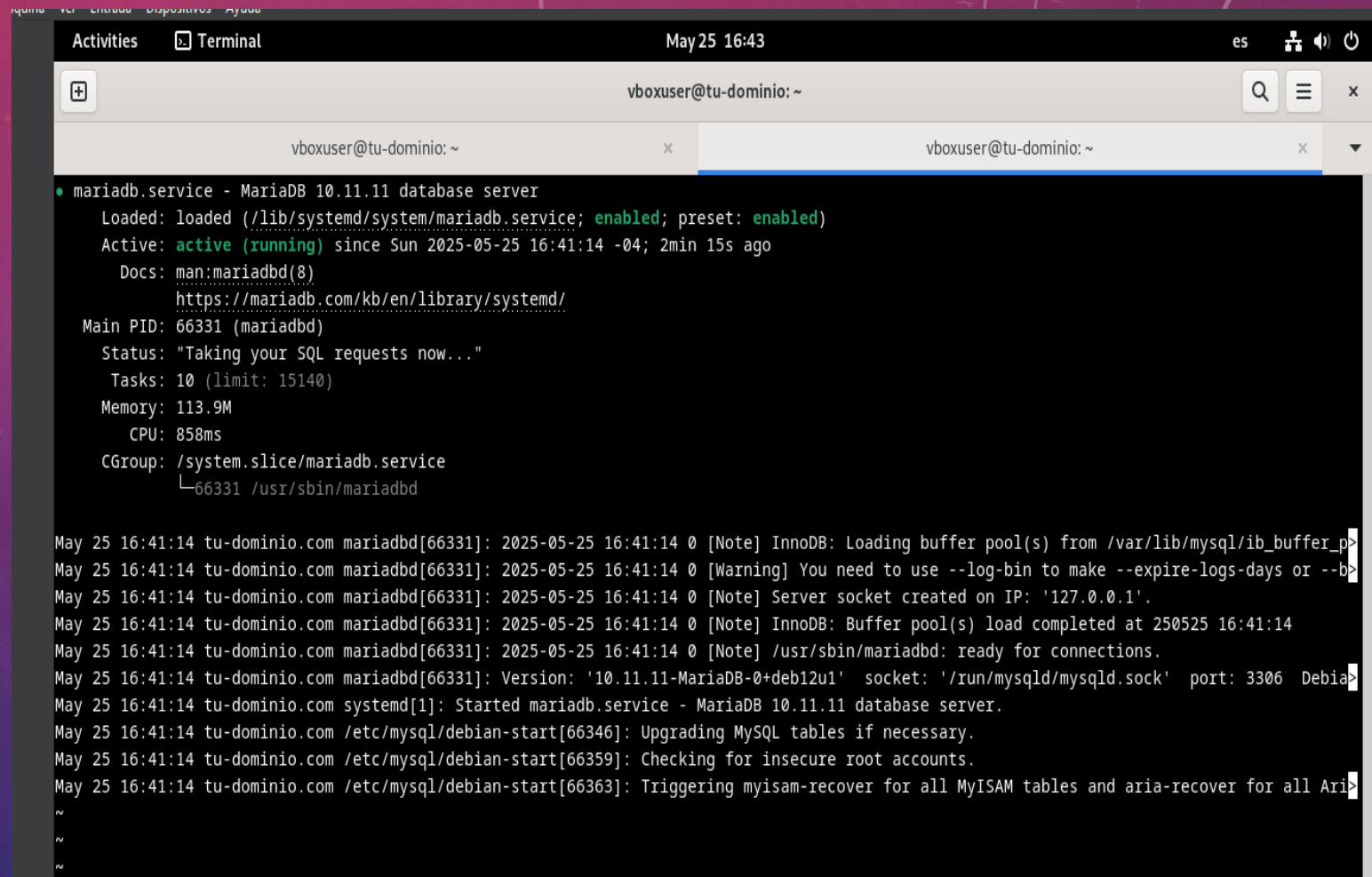
containers need to be restarted.

user sessions are running outdated binaries.

VM guests are running outdated hypervisor (qemu) binaries on this h
t@tu-dominio:~# mysql --version
ql Ver 15.1 Distrib 10.11.11-MariaDB, for debian-linux-gnu (x86_64)
Editline wrapper
t@tu-dominio:~#
t@tu-dominio:~#
t@tu-dominio:~#
t@tu-dominio:~#
```

The terminal window has a dark background with light-colored text. The top bar shows the time '6:41' and the user 'es'. The title bar indicates the user is 'vboxuser' on the host 'tu-dominio'. The terminal output shows the process of updating MariaDB packages and checking the MySQL version. The version check shows 'Ver 15.1 Distrib 10.11.11-MariaDB, for debian-linux-gnu (x86\_64)'. The terminal also shows several messages about outdated binaries and the need to restart services and containers.

VERIFICAMOS QUE  
SE HAYA CREADO Y  
ESTE ACTIVO



```
Activities Terminal May 25 16:43
vboxuser@tu-dominio: ~
vboxuser@tu-dominio: ~
vboxuser@tu-dominio: ~

• mariadb.service - MariaDB 10.11.11 database server
  Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; preset: enabled)
  Active: active (running) since Sun 2025-05-25 16:41:14 -04; 2min 15s ago
    Docs: man:mariabdb(8)
          https://mariadb.com/kb/en/library/systemd/
  Main PID: 66331 (mariabdb)
    Status: "Taking your SQL requests now..."
     Tasks: 10 (limit: 15140)
  Memory: 113.9M
     CPU: 858ms
    CGroup: /system.slice/mariadb.service
            └─66331 /usr/sbin/mariabdb

May 25 16:41:14 tu-dominio.com mariabdb[66331]: 2025-05-25 16:41:14 0 [Note] InnoDB: Loading buffer pool(s) from /var/lib/mysql/ib_buffer_p
May 25 16:41:14 tu-dominio.com mariabdb[66331]: 2025-05-25 16:41:14 0 [Warning] You need to use --log-bin to make --expire-logs-days or --b
May 25 16:41:14 tu-dominio.com mariabdb[66331]: 2025-05-25 16:41:14 0 [Note] Server socket created on IP: '127.0.0.1'.
May 25 16:41:14 tu-dominio.com mariabdb[66331]: 2025-05-25 16:41:14 0 [Note] InnoDB: Buffer pool(s) load completed at 250525 16:41:14
May 25 16:41:14 tu-dominio.com mariabdb[66331]: 2025-05-25 16:41:14 0 [Note] /usr/sbin/mariabdb: ready for connections.
May 25 16:41:14 tu-dominio.com mariabdb[66331]: Version: '10.11.11-MariaDB-0+deb12u1' socket: '/run/mysqld/mysqld.sock' port: 3306 Debia
May 25 16:41:14 tu-dominio.com systemd[1]: Started mariadb.service - MariaDB 10.11.11 database server.
May 25 16:41:14 tu-dominio.com /etc/mysql/debian-start[66346]: Upgrading MySQL tables if necessary.
May 25 16:41:14 tu-dominio.com /etc/mysql/debian-start[66359]: Checking for insecure root accounts.
May 25 16:41:14 tu-dominio.com /etc/mysql/debian-start[66363]: Triggering myisam-recover for all MyISAM tables and aria-recover for all Ari
~
~
~
```

# ACCEDEMOS A NUESTRA BASE DE DATOS

```
vboxuser@tu-dominio: ~  
vboxuser@tu-dominio: ~  
May 25 16:41:14 tu-dominio.com mariadb[66331]: 2025-05-25 16:41:14 0 [No  
May 25 16:41:14 tu-dominio.com mariadb[66331]: 2025-05-25 16:41:14 0 [Wa  
May 25 16:41:14 tu-dominio.com mariadb[66331]: 2025-05-25 16:41:14 0 [No  
May 25 16:41:14 tu-dominio.com mariadb[66331]: 2025-05-25 16:41:14 0 [No  
May 25 16:41:14 tu-dominio.com mariadb[66331]: 2025-05-25 16:41:14 0 [No  
May 25 16:41:14 tu-dominio.com mariadb[66331]: Version: '10.11.11-MariaD  
May 25 16:41:14 tu-dominio.com systemd[1]: Started mariadb.service - Mari  
May 25 16:41:14 tu-dominio.com /etc/mysql/debian-start[66346]: Upgrading  
May 25 16:41:14 tu-dominio.com /etc/mysql/debian-start[66359]: Checking f  
May 25 16:41:14 tu-dominio.com /etc/mysql/debian-start[66363]: Triggering  
lines 1-23/23 (END)  
[1]+  Stopped                  sudo systemctl status mariadb  
root@tu-dominio:~# sudo mariadb  
Welcome to the MariaDB monitor.  Commands end with ; or \g.  
Your MariaDB connection id is 31  
Server version: 10.11.11-MariaDB-0+deb12u1 Debian 12  
  
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input state  
t.  
  
MariaDB [(none)]> 
```



CREAMOS NUESTRA BASE DE DATOS

CREAMOS EL USUARIO Y CONTRASEÑA

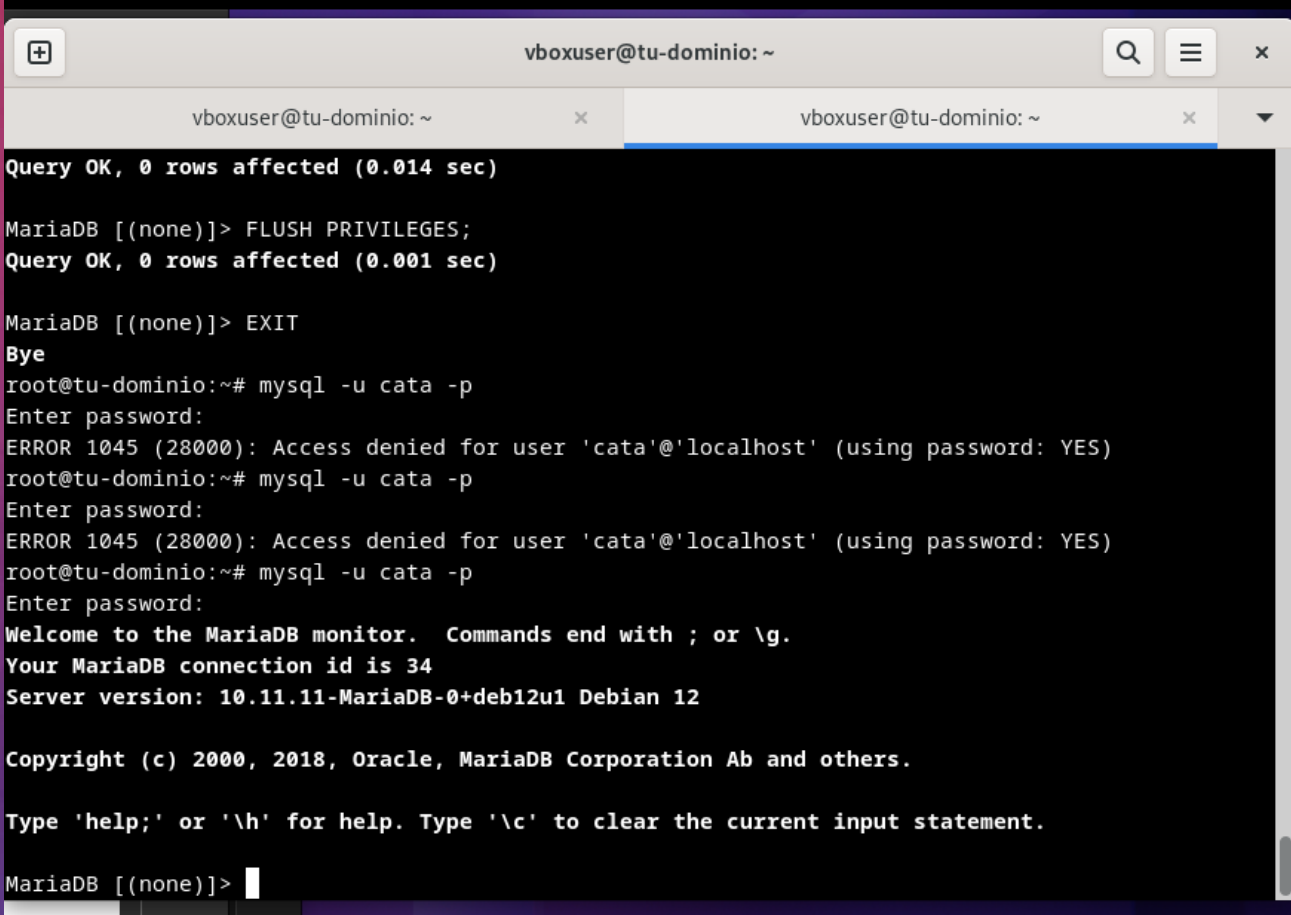
LE DAREMOS PERMISOS

APLICAMOS LOS CAMBIOS DE PERMISO

SALIMOS DE MARIADB

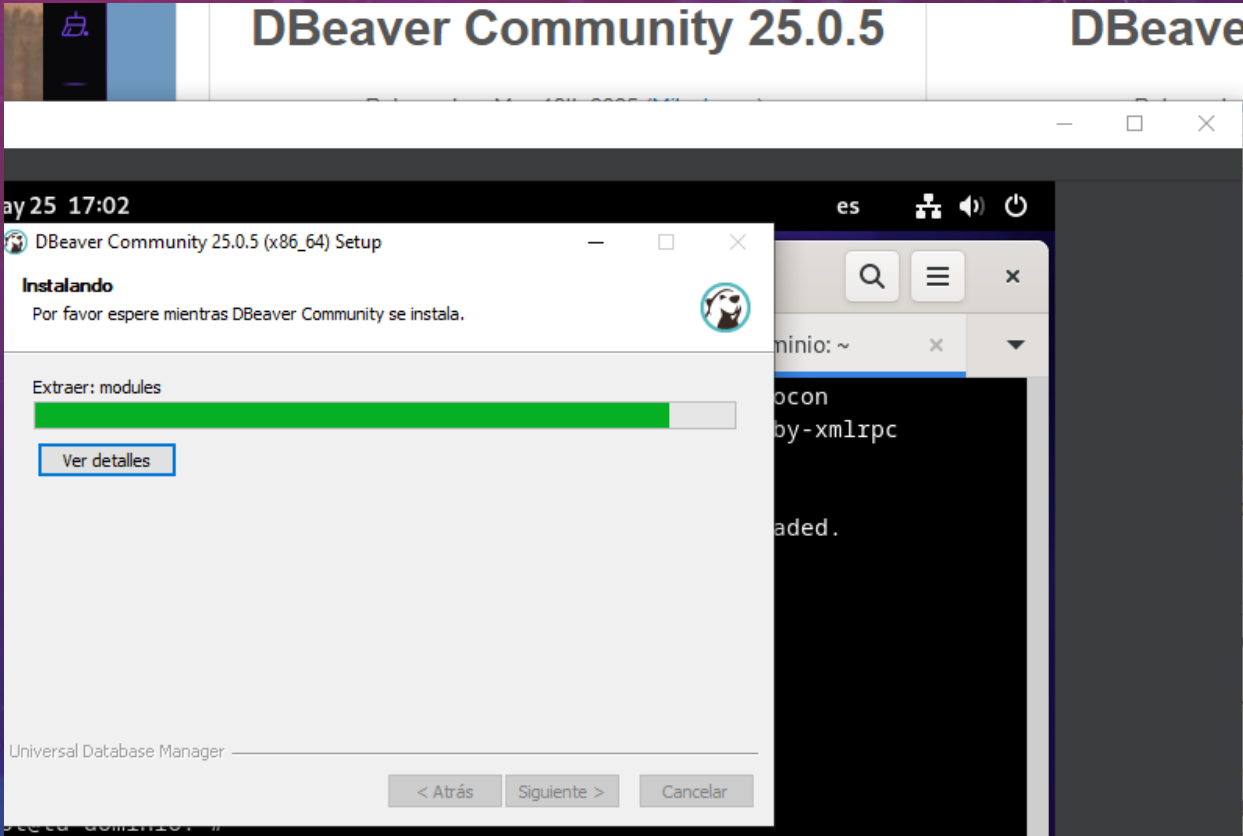
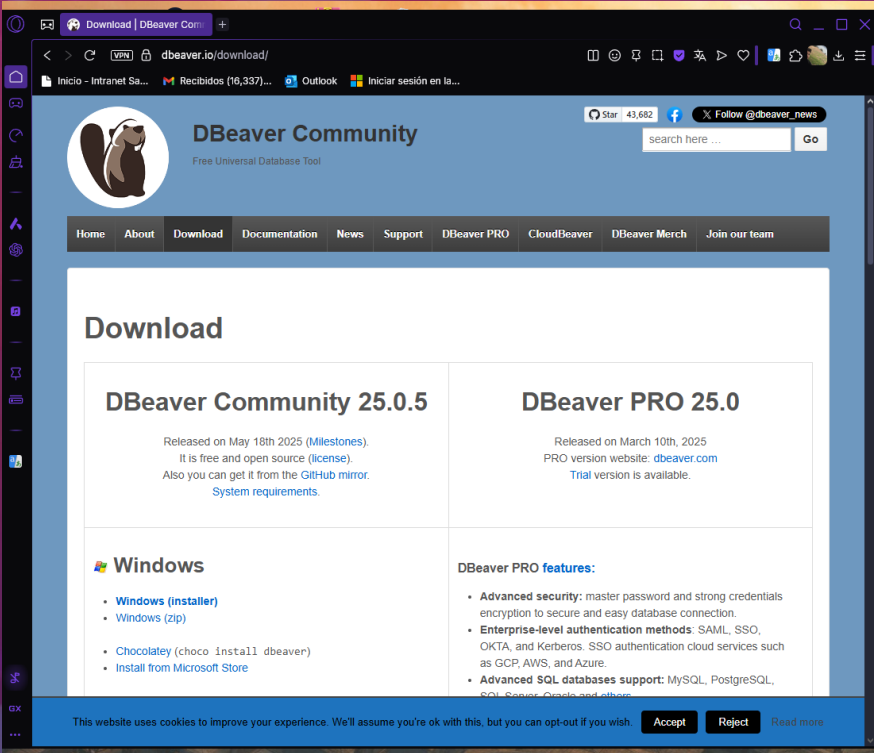
```
vboxuser@tu-dominio: ~  
vboxuser@tu-dominio: ~  
vboxuser@tu-dominio: ~  
Welcome to the MariaDB monitor.  Commands end with ; or \g.  
Your MariaDB connection id is 31  
Server version: 10.11.11-MariaDB-0+deb12u1 Debian 12  
  
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement  
  
MariaDB [(none)]> CREATE DATABASE mi_basedatos;  
Query OK, 1 row affected (0.000 sec)  
  
MariaDB [(none)]> CREATE USER 'cata'@'localhost' IDENTIFIED BY 'clave123';  
Query OK, 0 rows affected (0.016 sec)  
  
MariaDB [(none)]> GRANT ALL PRIVILEGES ON mi_basedatos.* TO 'cata'@'localhost';  
Query OK, 0 rows affected (0.014 sec)  
  
MariaDB [(none)]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.001 sec)  
  
MariaDB [(none)]> EXIT  
Bye  
root@tu-dominio:~#
```

PROBAREMOS LA CONEXIÓN  
Y YA ESTARÍA LISTA NUESTRA  
BASE DE DATOS



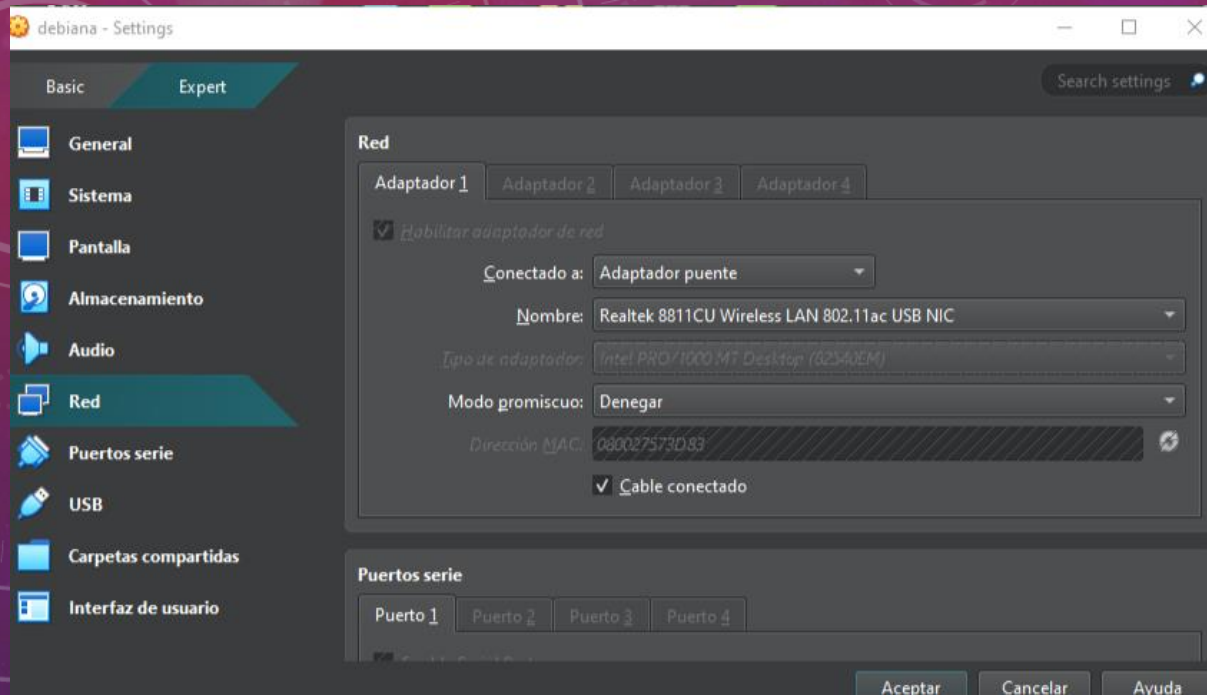
```
vboxuser@tu-dominio: ~  
Query OK, 0 rows affected (0.014 sec)  
  
MariaDB [(none)]> FLUSH PRIVILEGES;  
Query OK, 0 rows affected (0.001 sec)  
  
MariaDB [(none)]> EXIT  
Bye  
root@tu-dominio:~# mysql -u cata -p  
Enter password:  
ERROR 1045 (28000): Access denied for user 'cata'@'localhost' (using password: YES)  
root@tu-dominio:~# mysql -u cata -p  
Enter password:  
ERROR 1045 (28000): Access denied for user 'cata'@'localhost' (using password: YES)  
root@tu-dominio:~# mysql -u cata -p  
Enter password:  
Welcome to the MariaDB monitor.  Commands end with ; or \g.  
Your MariaDB connection id is 34  
Server version: 10.11.11-MariaDB-0+deb12u1 Debian 12  
  
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
MariaDB [(none)]> 
```

INSTALAMOS DBEAVER EN NUESTRO WINDOWS

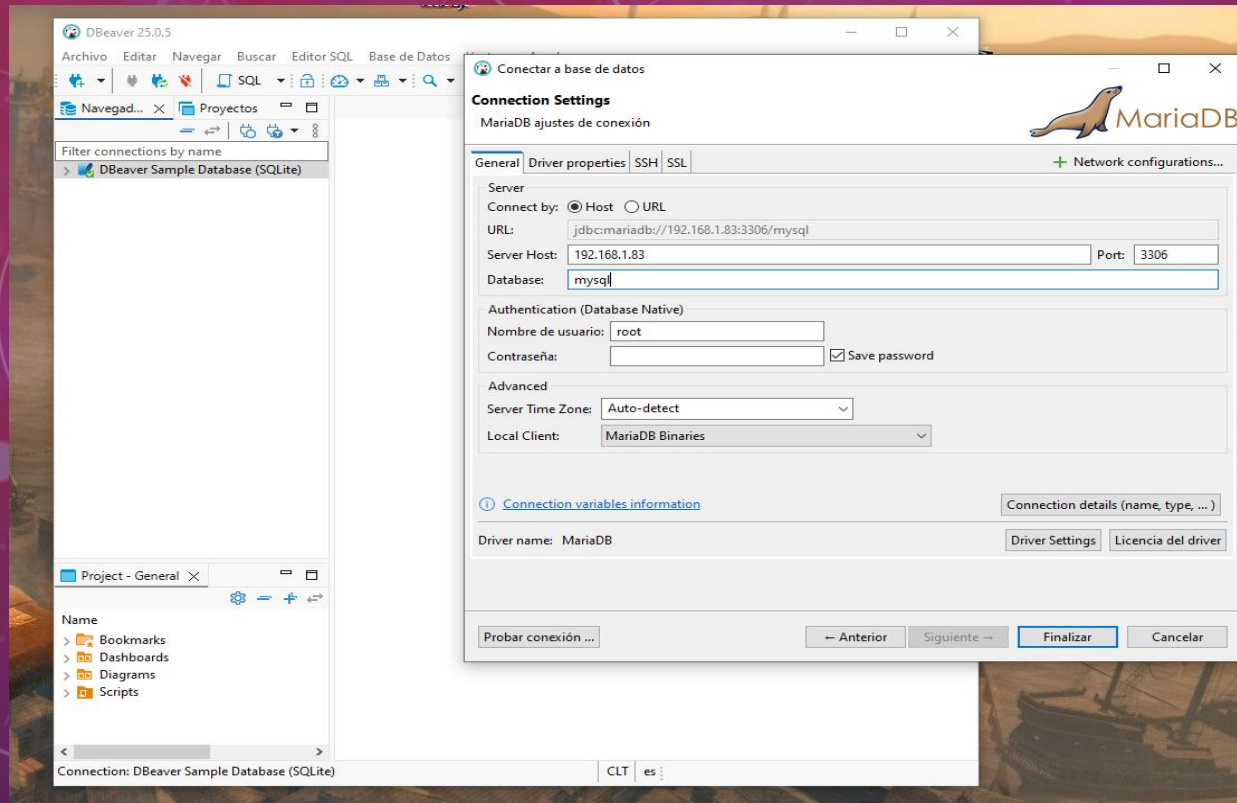




ASEGURAMOS QUE ESTE EN ADAPTADOR PUENTE PARA QUE TENGA UNA IP PROPIA NUESTRA VM QUE DESPUÉS USAREMOS PARA CONECTAR A DBEAVER



```
vboxuser@tu-dominio: ~  
vboxuser@tu-dominio:~$ su -  
Password:  
root@tu-dominio:~# ip a  
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN  
group default qlen 1000  
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00  
    inet 127.0.0.1/8 scope host lo  
        valid_lft forever preferred_lft forever  
    inet6 ::1/128 scope host noprefixroute  
        valid_lft forever preferred_lft forever  
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_code  
1 state UP group default qlen 1000  
    link/ether 08:00:27:57:3d:83 brd ff:ff:ff:ff:ff:ff  
    inet 192.168.1.83/24 brd 192.168.1.255 scope global dynamic nop  
refixroute enp0s3  
        valid_lft 28636sec preferred_lft 28636sec  
    inet6 fe80::a00:27ff:fe57:3d83/64 scope link noprefixroute  
        valid_lft forever preferred_lft forever  
3: br-1653c73ad0d1: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qd  
isc noqueue state DOWN group default  
    link/ether 02:42:cc:5c:d5:69 brd ff:ff:ff:ff:ff:ff  
    inet 172.18.0.1/16 brd 172.18.255.255 scope global br-1653c73ad  
0d1  
        valid_lft forever preferred_lft forever
```



ACA PONDREMOS EN HOST NUESTRA  
IP DE LA VM Y NUESTRO USUARIO Y  
CONTRASEÑA QUE CREAMOS EN  
MARIADB

```
vboxuser@tu-dominio: ~  
CPU: 2.282s  
CGroup: /system.slice/mariadb.service  
└─808 /usr/sbin/mariabdd  
  
May 25 17:09:50 tu-dominio.com mariabdd[808]: 2025-05-25 17:09:50 0 [Note>  
May 25 17:09:50 tu-dominio.com mariabdd[808]: 2025-05-25 17:09:50 0 [Note>  
May 25 17:09:50 tu-dominio.com mariabdd[808]: 2025-05-25 17:09:50 0 [Warn>  
May 25 17:09:50 tu-dominio.com mariabdd[808]: 2025-05-25 17:09:50 0 [Note>  
May 25 17:09:50 tu-dominio.com mariabdd[808]: 2025-05-25 17:09:50 0 [Note>  
May 25 17:09:50 tu-dominio.com mariabdd[808]: Version: '10.11.11-MariaDB->  
May 25 17:09:50 tu-dominio.com systemd[1]: Started mariadb.service - Mari>  
May 25 17:09:50 tu-dominio.com /etc/mysql/debian-start[967]: Upgrading My>  
May 25 17:09:51 tu-dominio.com /etc/mysql/debian-start[985]: Checking for>  
May 25 17:09:52 tu-dominio.com /etc/mysql/debian-start[992]: Triggering m>  
lines 6-28  
[1]+  Stopped                  sudo systemctl status mariadb  
root@tu-dominio:~#  
root@tu-dominio:~#  
root@tu-dominio:~#  
root@tu-dominio:~#  
root@tu-dominio:~#  
root@tu-dominio:~#  
root@tu-dominio:~# sudo nano /etc/mysql/mariadb.conf.d/50-server.cnf
```

EDITAMOS EL ARCHIVO PARA  
PERMITIR CONEXIONES REMOTAS



```
vboxuser@tu-dominio: ~
GNU nano 7.2 /etc/mysql/mariadb.conf.d/50-server.cnf
# Instead of skip-networking the default is now to listen only on
# localhost which is more compatible and is not less secure.
bind-address            = 127.0.0.1

#
# * Fine Tuning
#

#key_buffer_size        = 128M
#max_allowed_packet     = 1G
#thread_stack           = 192K
#thread_cache_size      = 8
# This replaces the startup script and checks MyISAM tables if needed
# the first time they are touched
#myisam_recover_options = BACKUP
#max_connections        = 100
#table_cache            = 64

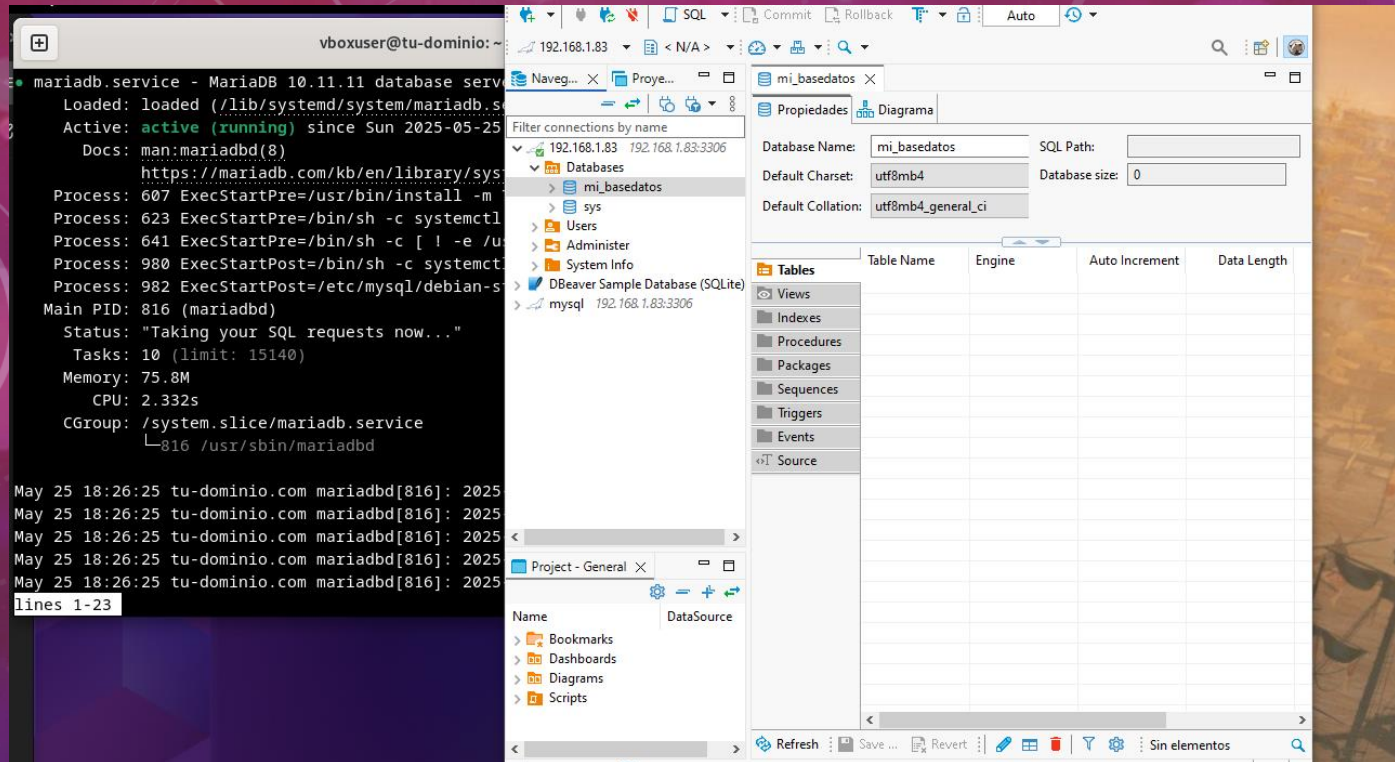
#
# * Logging and Replication
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify
```

EN BIN-ADDRESS  
CAMBIAREMOS EL VALOR  
DE 127.0.0.1 POR 0.0.0.0

```
MariaDB [(none)]> EXIT;
Bye
root@tu-dominio:~# sudo ufw allow 3306
```

LE DAREMOS CONEXIÓN AL PUERTO  
3306, EL MISMO DE NUESTRO DBEAVER  
CUANDO LO CONFIGURAMOS





Y ACÁ YA TENEMOS NUESTRAS BASES DE DATOS CONECTADAS

SABER CONECTAR Y USAR DBEAVER CON BASES DE DATOS EN DEBIAN TE HACE MÁS VERSÁTIL, INDEPENDIENTE Y VALIOSA EN CUALQUIER EQUIPO TÉCNICO