

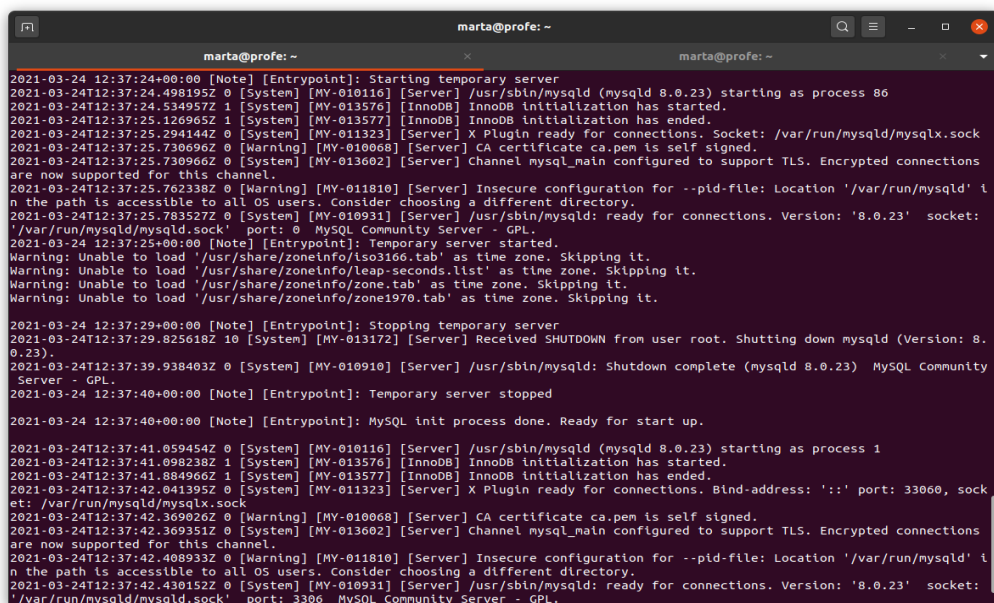
GUÍA INSTALACIÓN ENTORNO DOCKER Y CONTENEDOR MYSQL

1. Primero ejecutamos "docker run" para obtener la imagen y contenedor de MySQL:

```
sudo docker run --name mysqldb -p 3306:3306 -e MYSQL_ROOT_PASSWORD=rootpass  
mysql:8.0
```

- --name es el nombre del contenedor (el que queramos)
- -p es el puerto que va a usar.
- En el campo "rootpass" ponemos la contraseña que queramos para el usuario root de labase de datos.

2. Una vez ejecutado el comando la salida debería ser la siguiente:



```
marta@profe: ~  
2021-03-24 12:37:24+00:00 [Note] [Entrypoint]: Starting temporary server  
2021-03-24T12:37:24.498195Z 0 [System] [MY-010110] [Server] /usr/sbin/mysqld (mysqld 8.0.23) starting as process 86  
2021-03-24T12:37:24.534957Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.  
2021-03-24T12:37:25.126965Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.  
2021-03-24T12:37:25.294144Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Socket: /var/run/mysqld/mysqlx.sock  
2021-03-24T12:37:25.730696Z 0 [Warning] [MY-010668] [Server] CA certificate ca.pem is self signed.  
2021-03-24T12:37:25.730966Z 0 [System] [MY-013602] [Server] Channel mysql_main configured to support TLS. Encrypted connections  
are now supported for this channel.  
2021-03-24T12:37:25.762330Z 0 [Warning] [MY-011810] [Server] Insecure configuration for --pid-file: Location '/var/run/mysqld' i  
n the path is accessible to all OS users. Consider choosing a different directory.  
2021-03-24T12:37:25.783527Z 0 [System] [MY-010931] [Server] /usr/sbin/mysqld: ready for connections. Version: '8.0.23' socket:  
'/var/run/mysqld/mysql.sock' port: 0 MySQL Community Server - GPL.  
2021-03-24 12:37:25+00:00 [Note] [Entrypoint]: Temporary server started.  
Warning: Unable to load '/usr/share/zoneinfo/iso3166.tab' as time zone. Skipping it.  
Warning: Unable to load '/usr/share/zoneinfo/leap-seconds.list' as time zone. Skipping it.  
Warning: Unable to load '/usr/share/zoneinfo/zone.tab' as time zone. Skipping it.  
Warning: Unable to load '/usr/share/zoneinfo/zone1970.tab' as time zone. Skipping it.  
2021-03-24 12:37:29+00:00 [Note] [Entrypoint]: Stopping temporary server  
2021-03-24T12:37:29.825618Z 10 [System] [MY-013172] [Server] Received SHUTDOWN from user root. Shutting down mysqld (Version: 8.  
0.23).  
2021-03-24T12:37:39.938403Z 0 [System] [MY-010910] [Server] /usr/sbin/mysqld: Shutdown complete (mysqld 8.0.23) MySQL Community  
Server - GPL.  
2021-03-24 12:37:40+00:00 [Note] [Entrypoint]: Temporary server stopped  
2021-03-24 12:37:40+00:00 [Note] [Entrypoint]: MySQL init process done. Ready for start up.  
2021-03-24T12:37:41.059454Z 0 [System] [MY-010110] [Server] /usr/sbin/mysqld (mysqld 8.0.23) starting as process 1  
2021-03-24T12:37:41.098238Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.  
2021-03-24T12:37:41.884966Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.  
2021-03-24T12:37:42.041395Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Bind-address: '::' port: 33060, sock  
et: /var/run/mysqld/mysqlx.sock  
2021-03-24T12:37:42.369026Z 0 [Warning] [MY-010668] [Server] CA certificate ca.pem is self signed.  
2021-03-24T12:37:42.369351Z 0 [System] [MY-013602] [Server] Channel mysql_main configured to support TLS. Encrypted connections  
are now supported for this channel.  
2021-03-24T12:37:42.408933Z 0 [Warning] [MY-011810] [Server] Insecure configuration for --pid-file: Location '/var/run/mysqld' i  
n the path is accessible to all OS users. Consider choosing a different directory.  
2021-03-24T12:37:42.430152Z 0 [System] [MY-010931] [Server] /usr/sbin/mysqld: ready for connections. Version: '8.0.23' socket:  
'/var/run/mysqld/mysql.sock' port: 3306 MySQL Community Server - GPL.
```

Si todo ha salido bien ya tendremos nuestro contenedor creado. Podemos abrir otro terminal y escribir:

```
sudo docker ps -a
```

Con esto veremos los contenedores que tenemos.

CONFIGURACIÓN DE CONTENEDOR MYSQL: CREACIÓN DE ESQUEMA Y USUARIO CON PRIVILEGIOS

Abrimos un terminal y ejecutamos la siguiente instrucción:

```
docker exec -i -t mysqldb bash
```

Después de ejecutar la instrucción anterior entraremos en la configuración de MySQL:

```
mysql -u root -p
```

Cuando demos "enter", nos pedirá la contraseña de MySQL que es la que pusimos anteriormente en el comando "docker run". En nuestro caso ha sido **rootpass**

Una vez hecho este paso ya estamos dentro de la configuración de MySQL. Vamos a crear un esquema de prueba y un usuario con privilegios:

Creamos esquema de base de datos:

```
create database db_exampleName;
```

Creamos un usuario y le damos privilegios

```
create user 'dummy'@'%' identified by 'dummy';
```

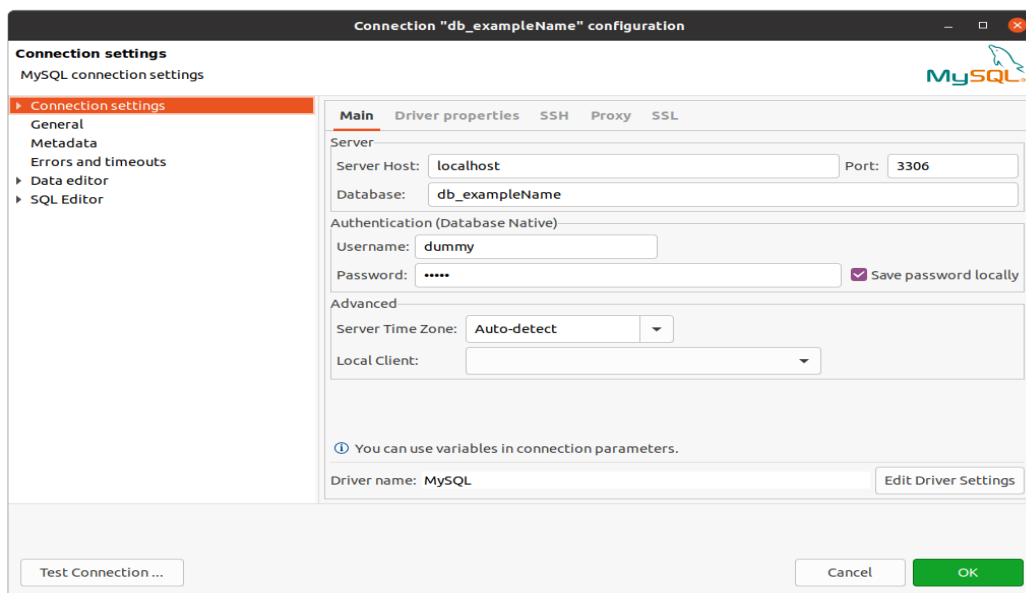
```
grant all on db_exampleName.* to 'dummy'@'%';
```

Debe quedar así:

```
marta@profe: ~  
marta@profe: ~  
marta@profe:~$ sudo docker exec -i -t mysqlpdb bash  
[sudo] password for marta:  
root@eed5c6b333ee:/# mysql -u root -p  
Enter password:  
Welcome to the MySQL monitor.  Commands end with ; or \g.  
Your MySQL connection id is 8  
Server version: 8.0.23 MySQL Community Server - GPL  
  
Copyright (c) 2000, 2021, Oracle and/or its affiliates.  
  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> create database db_exampleName;  
Query OK, 1 row affected (0.10 sec)  
  
mysql> create user 'dummy'@'%' identified by 'dummy';  
Query OK, 0 rows affected (0.14 sec)  
  
mysql> grant all on db_exampleName.* to 'dummy'@'%';  
Query OK, 0 rows affected (0.09 sec)
```

Ya tenemos todo correcto para probar la base de datos, si queremos conectarnos a ella desde cualquier editor de Bases de Datos (DBeaver, SqlDeveloper, MysqlWorkbench, DataGrip).

Por ejemplo desde DBeaver:



Connection "db_exampleName" configuration

Connection settings

MySQL connection settings

Connection settings

General

Metadata

Errors and timeouts

Data editor

SQL Editor

MainDriver propertiesSSHProxySSL

☒ Use SSL

Profile:

All SSL parameters are optional.
You must specify SSL certificates if they are required by your server configuration.

Certificates

CA certificate:

SSL certificate:

SSL certificate key:

Cipher suites (optional):

Advanced

Require SSL:

☐

Verify server certificate:

☐

Allow public key retrieval:

☒

Test Connection ...

Cancel

OK