

Descargando imagen en MySQL

```
hack4u@Hack4u:~$ docker pull mysql:latest
latest: Pulling from library/mysql
e2c03c89dcad: Downloading [=====] 41.71MB/44.88MB
68eb43837bf8: Download complete
796892ddf5ac: Download complete
6bca45eb31e1: Download complete
ebb53bc0dcca: Download complete
2e2c6bdc7a40: Download complete
6f27b5c76970: Downloading [=====] 5.385MB/58.6MB
438533a24810: Download complete
e5bdf19985e0: Waiting
667fa148337b: Waiting
5baa702110e4: Waiting
```

Imagen con contraseña

```
hack4u@Hack4u:~$ docker pull mysql:latest
latest: Pulling from library/mysql
e2c03c89dcad: Pull complete
68eb43837bf8: Pull complete
796892ddf5ac: Pull complete
6bca45eb31e1: Pull complete
ebb53bc0dcca: Pull complete
2e2c6bdc7a40: Pull complete
6f27b5c76970: Pull complete
438533a24810: Pull complete
e5bdf19985e0: Pull complete
667fa148337b: Pull complete
5baa702110e4: Pull complete
Digest: sha256:232936eb036d444045da2b87a90d48241c60b68b376caf509051cb6cfea6f9dc
Status: Downloaded newer image for mysql:latest
docker.io/library/mysql:latest

What's Next?
  View summary of image vulnerabilities and recommendations -> docker scout quickview mysql:latest
hack4u@Hack4u:~$ docker run --name mysql-demo -e MYSQL_ROOT_PASSWORD=demo -d -v mysql-demo:/var/lib/mysql mysql:latest
4a3530b171faf289320124381c072cf02c27f2b557ad5c8478c449dd22c1f5b
hack4u@Hack4u:~$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS                    NAMES
4a3530b171fa   mysql:latest "docker-entrypoint.s..." 8 seconds ago   Up 7 seconds   3306/tcp, 33060/tcp      mysql-demo
hack4u@Hack4u:~$
```

Instalacion de mysql

```
hack4u@Hack4u:~$ sudo apt-get install mysql-client
Se instalarán los siguientes paquetes adicionales:
mysql-client-8.0 mysql-client-core-8.0
Se instalarán los siguientes paquetes NUEVOS:
mysql-client mysql-client-8.0 mysql-client-core-8.0
0 actualizados, 3 nuevos se instalarán, 0 para eliminar y 161 no actualizados.
Se necesita descargar 5 205 kB de archivos.
Se utilizarán 75.6 MB de espacio de disco adicional después de esta operación.
Des:1 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-client-core-8.0 amd64 8.0.33-0ubuntu0.20.04.2 [5 173 kB]
Des:2 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-client-8.0 amd64 8.0.33-0ubuntu0.20.04.2 [22.0 kB]
Des:3 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-client all 8.0.33-0ubuntu0.20.04.2 [9 360 B]
Descargados 5 205 kB en 10s (522 kB/s)
Seleccionando el paquete mysql-client-core-8.0 previamente no seleccionado.
(Leyendo la base de datos ... 449994 ficheros o directorios instalados actualmente.)
Preparando para desempaquetar .../mysql-client-core-8.0_8.0.33-0ubuntu0.20.04.2_amd64.deb ...
Desempaquetando mysql-client-core-8.0 (8.0.33-0ubuntu0.20.04.2) ...
Seleccionando el paquete mysql-client-8.0 previamente no seleccionado.
Preparando para desempaquetar .../mysql-client-8.0_8.0.33-0ubuntu0.20.04.2_amd64.deb ...
Desempaquetando mysql-client-8.0 (8.0.33-0ubuntu0.20.04.2) ...
Seleccionando el paquete mysql-client previamente no seleccionado.
Preparando para desempaquetar .../mysql-client_8.0.33-0ubuntu0.20.04.2_all.deb ...
Desempaquetando mysql-client (8.0.33-0ubuntu0.20.04.2) ...
Configurando mysql-client-core-8.0 (8.0.33-0ubuntu0.20.04.2) ...
Configurando mysql-client-8.0 (8.0.33-0ubuntu0.20.04.2) ...
Configurando mysql-client (8.0.33-0ubuntu0.20.04.2) ...
Procesando disparadores para man-db (2.9.1-1) ...
hack4u@Hack4u:~$
```

Version del codigo mysql

```
Se instalarán los siguientes paquetes NUEVOS:
 mysql-client mysql-client-8.0 mysql-client-core-8.0
0 actualizados, 3 nuevos se instalarán, 0 para eliminar y 161 no actualizados.
Se necesita descargar 5 205 kB de archivos.
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173 kB]
Des:2 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-client-8.0 amd64 8.0.33-0ubuntu0.20.04.2 [22.0 k
B]
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Configurando mysql-client (8.0.33-0ubuntu0.20.04.2) ...
Procesando disparadores para man-db (2.9.1-1) ...
hack4u@Hack4u:~$ which mysql
/usr/bin/mysql
hack4u@Hack4u:~$ mysql --version
mysql Ver 8.0.33-0ubuntu0.20.04.2 for Linux on x86_64 ((Ubuntu))
hack4u@Hack4u:~$
```

Conectandose a mysql

```
173 kB]
Des:2 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-client-8.0 amd64 8.0.33-0ubuntu0.20.04.2 [22.0 k
B]
Des:3 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-client all 8.0.33-0ubuntu0.20.04.2 [9 360 B]
Descargados 5 205 kB en 10s (522 kB/s)
Seleccionando el paquete mysql-client-core-8.0 previamente no seleccionado.
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Preparando para desempaquetar .../mysql-client-core-8.0_8.0.33-0ubuntu0.20.04.2_amd64.deb ...
Desempaquetando mysql-client-core-8.0 (8.0.33-0ubuntu0.20.04.2) ...
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Seleccionando el paquete mysql-client previamente no seleccionado.
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Desempaquetando mysql-client (8.0.33-0ubuntu0.20.04.2) ...
Configurando mysql-client-core-8.0 (8.0.33-0ubuntu0.20.04.2) ...
Configurando mysql-client-8.0 (8.0.33-0ubuntu0.20.04.2) ...
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hack4u@Hack4u:~$ which mysql
/usr/bin/mysql
hack4u@Hack4u:~$ mysql --version
mysql Ver 8.0.33-0ubuntu0.20.04.2 for Linux on x86_64 ((Ubuntu))
hack4u@Hack4u:~$ mysql -u root -p
Enter password:
ERROR 2002 (HY000): Can't connect to local MySQL server through socket '/var/run/mysqld/mysqld.sock' (2)
hack4u@Hack4u:~$ mysql -u root -p
Enter password:
ERROR 2002 (HY000): Can't connect to local MySQL server through socket '/var/run/mysqld/mysqld.sock' (2)
hack4u@Hack4u:~$
```

Estableciendo protocolo

```
hack4u@Hack4u:~$ mysql -h 172.17.0.2 -p 3306 --protocol=tcp -u root -p
Enter password:
ERROR 1045 (28000): Access denied for user 'root'@'172.17.0.1' (using password: YES)
hack4u@Hack4u:~$ mysql -h 172.17.0.2 -p 3306 --protocol=tcp -u root -p
Enter password:
ERROR 1045 (28000): Access denied for user 'root'@'172.17.0.1' (using password: YES)
hack4u@Hack4u:~$ mysql -h 172.17.0.2 -p 3306 --protocol=tcp -u root -p
Enter password:
ERROR 1045 (28000): Access denied for user 'root'@'172.17.0.1' (using password: YES)
hack4u@Hack4u:~$ mysql -h 172.17.0.2 -p 3306 --protocol=tcp -u root -p
Enter password:
ERROR 1049 (42000): Unknown database '3306'
hack4u@Hack4u:~$ mysql -h 172.17.0.2 -p 3307 --protocol=tcp -u root -p
Enter password:
ERROR 1049 (42000): Unknown database '3307'
hack4u@Hack4u:~$ mysql -h 172.17.0.2 --protocol=tcp -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 14
Server version: 8.0.33 MySQL Community Server - GPL

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

Creando la base de datos automatiza

```
mysql> show databases
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.01 sec)

mysql> create database automatiza;
Query OK, 1 row affected (0.01 sec)

mysql> use automatiza
Database changed
mysql>
```

Creando la tabla de la base de datos

```
mysql> show databases
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
4 rows in set (0.01 sec)

mysql> create database automatiza;
Query OK, 1 row affected (0.01 sec)

mysql> use automatiza
Database changed
mysql> CREATE TABLE username (
-> username VARCHAR(30) PRIMARY KEY,
-> password VARCHAR(20),
-> email VARCHAR(80) UNIQUE,
-> telefono VARCHAR(10) UNIQUE
-> );
Query OK, 0 rows affected (0.02 sec)

mysql>
```

Modificar comando para crear contenedor y su referencia de red

```
hack4u@hack4u:~$ docker run --network network-mysql network-mysql:latest
Unable to find image 'network-mysql:latest' locally
docker: Error response from daemon: pull access denied for network-mysql, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.
hack4u@hack4u:~$ docker run --network network-mysql network-mysql:1.0
Unable to find image 'network-mysql:1.0' locally
docker: Error response from daemon: pull access denied for network-mysql, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.
hack4u@hack4u:~$ docker run --name mysql-demo -e MYSQL_ROOT_PASSWORD=demo -d -v mysql-demo:/var/lib/mysql mysql:latest
bd0c4c6aa5fce221bfd7e2afd1f0886b85c5876a9984d846fd54e8a28995b11f
hack4u@hack4u:~$ docker run --name mysql-demo -e MYSQL_ROOT_PASSWORD=demo -d -v mysql-demo:/var/lib/mysql mysql:latest
--network network-mysql \
>
docker: Error response from daemon: Conflict. The container name "/mysql-demo" is already in use by container "bd0c4c6aa5fce221bfd7e2afd1f0886b85c5876a9984d846fd54e8a28995b11f". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
hack4u@hack4u:~$ docker run --name mysql-demo -e MYSQL_ROOT_PASSWORD=demo -d -v mysql-demo:/var/lib/mysql mysql:latest
--network network-mysql \
>
docker: Error response from daemon: Conflict. The container name "/mysql-demo" is already in use by container "bd0c4c6aa5fce221bfd7e2afd1f0886b85c5876a9984d846fd54e8a28995b11f". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
hack4u@hack4u:~$ docker run --name network-mysql -e MYSQL_ROOT_PASSWORD=demo -d -v mysql-demo:/var/lib/mysql mysql:latest
--network network-mysql \
>
dab7e9be13f1b61b8e775161510682dcd4ea47a735bc10c88dc43bda92307850
hack4u@hack4u:~$
```