The flow explains how to set up MySQL docker container and MySQL Workbench client on local Ubuntu. Then interact with MySQL docker container from MySQL Workbench or just simple MySql client in shell.

1.

Download MySql image

--sudo service docker start

-- sudo docker pull mysql

2.

Run the container. Name of container -- demo-mysql, password of **root** user --- **password**,

Db name --- demo, user and pass for demo db ---demo\_user and demo\_pass. The exposed port on localhost is 3306. Image from which conainer is created --- mysql.

---sudo docker run --name demo-mysql -e MYSQL\_ROOT\_PASSWORD=password -e MYSQL\_DATABASE=demo -e MYSQL\_USER=demo\_user -e MYSQL\_PASSWORD=demo\_pass -p 3306:3306 -d mysql

3.

Check the logs to make sure that container is working –

----sudo docker logs demo-mysql

4.

Start the simple interactive MySql client in the Terminal window---

-- sudo docker run -it --link demo-mysql:mysql --rm mysql sh -c 'exec mysql -h"$MYSQL\_PORT\_3306\_TCP\_ADDR" -P"$MYSQL\_PORT\_3306\_TCP\_PORT" -uroot -p"$MYSQL\_ENV\_MYSQL\_ROOT\_PASSWORD"'

5.

Grant the privileges to access the MySql from any host to user with login = root, pass = password. Execute the following right in the Terminal (the session vs MySql was opened in #4)

-- GRANT ALL PRIVILEGES ON \*.\* TO 'root'@'%' IDENTIFIED BY 'password';

Only now you can connect to the demo-mysql container from the external client !!!!!!!! By default MySql don’t allow connections from other hosts – wasted lots of time on that one !!!!!!!

6.

Install the MySql Workbench client –

-- sudo apt-get install mysql-workbench

7.

Search it as always in Ubuntu apps, click to start, press on “+” sign to create new connection.

Fill in the following connection details – host = 127.0.0.1, port = 3306, Db name --- demo, user and pass for demo db ---demo\_user and demo\_pass. Test connection to verify it is working.

8.

Use the following SQL statements to start working against your DB. The same interaction can be done from simple MySql shell client after step #4 (or #5 ???).

use demo;  
  
  
CREATE TABLE my\_test (id INT,   
name VARCHAR(20));  
  
  
INSERT INTO `my\_test` (`id`,`name`) VALUES (1, "boris");  
  
  
select \* from my\_test