

Title: Connect to Docker MySQL container from localhost?

Post Body:

I have a docker mysql image running, following is what the docker-compose.yml file looks like:

```
db:  image: mysql  environment:  MYSQL_ROOT_PASSWORD: ''  MYSQL_ALLOW_EMPTY_PASSWORD: yes  ports:  - '3306:3306'
```

This works fine.

My question is: How can I connect to the MySQL instance running on that container from the command line mysql client on my the host (my macbook)?

To clarify:

- I have a macbook with Docker installed
- I have a docker container with mysql
- I want to connect to the mysql instance running on the aforementioned container from the Terminal on my macbook
- I do NOT want to user a `docker` command to make this possible. Rather, I want to use the `mysql` client directly from the Terminal (without tunneling in through a docker container).

I don't have MySQL running locally, so port 3306 should be open and ready to use.

The command I am using to start the container is: `docker-compose run`

Accepted Answer:

Using `docker-compose up`

Since you published port 3306 on your **docker host**, from that host itself you would connect to `127.0.0.1:3306`.

Using `docker-compose run`

In that case the port mapping section of the `docker-compose.yml` file is ignored. To have the port mapping section considered, you have to add the [--service-ports](#) option:

```
docker-compose run --service-ports db
```

Additional note

Beware that by default, the mysql client tries to connect using a unix socket when you tell it to connect to `localhost`. So do use `127.0.0.1` and not `localhost`:

```
$ mysql -h 127.0.0.1 -P 3306 -u root
```

```
Welcome to the MySQL monitor. Commands end with ; or \g. Your MySQL connection id is 1 Server version: 5.6.26 MySQL Community Server (GPL)
```

```
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```

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```

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

```
mysql>
```

```
$ mysql -h localhost -P 3306 -u root
```

```
ERROR 2002 (HY000): Can't connect to local MySQL server through socket '/var/run/mysqld/mysqld.sock' (2)
```

Highest Rated Answer:

A simple way to login to MySQL inside a Docker image is:

```
sudo docker exec -it <CONTAINER_ID> mysql -u root -p
```

for MySQL's `root` account by default password is not set, its BLANK, just press enter/return key, unless you have changed root password.

On successful execution, above command gives you mysql prompt.

Cheers!