**MySQL 5.5 Docker on CentOS 7**

This docker image is part of the**[devilbox](https://github.com/cytopia/devilbox)**

**Options**

**Environmental variables**

**Required environmental variables**

| **Variable** | **Type** | **Description** |
| --- | --- | --- |
| MYSQL\_ROOT\_PASSWORD | string | MySQL root user password of either existing database or in case it does not exist it will initialize the new database with the given password. |

**Optional environmental variables**

| **Variable** | **Type** | **Default** | **Description** |
| --- | --- | --- | --- |
| DEBUG\_COMPOSE\_ENTRYPOINT | bool | 0 | Show shell commands executed during start. Value: 0 or 1 |
| TIMEZONE | string | UTC | Set docker OS timezone. Example: Europe/Berlin |
| MYSQL\_SOCKET\_DIR | string | /var/sock/mysqld | Path inside the docker to the socket directory.  Used to separate socket directory from data directory in order to mount it to the docker host or other docker containers.  Mount this directory to a PHP container and be able to use mysqli\_connect with localhost. |
| MYSQL\_GENERAL\_LOG | bool | 0 | Turn on or off general logging Corresponds to mysql config: general-log Value: 0 or 1 |

**Default mount points**

| **Docker** | **Description** |
| --- | --- |
| /var/lib/mysql | MySQL data dir |
| /var/log/mysql | MySQL log dir |
| /var/sock/mysqld | MySQL socket dir |
| /etc/mysql/conf.d | MySQL configuration directory (used to overwrite MySQL config) |
| /etc/mysql/docker-default.d | MySQL configuration directory (used to overwrite MySQL config) |

**Default ports**

| **Docker** | **Description** |
| --- | --- |
| 3306 | MySQL listening Port |

**Usage**

**1. Listen on loopback interface only**

$ docker run -i \

-p 127.0.0.1:3306:3306 \

-e MYSQL\_ROOT\_PASSWORD=my-secret-pw \

-t cytopia/mysql-5.5

# Access MySQL from your host computer

$ mysql --user=root --password=my-secret-pw --host=127.0.0.1 -e 'show databases;'

**2. Enable logging**

Enable logging and mount the log directory to your host to ~tmp/mysql-log

$ docker run -i \

-p 127.0.0.1:3306:3306 \

-v ~tmp/mysql-log:/var/log/mysql \

-e MYSQL\_ROOT\_PASSWORD=my-secret-pw \

-e MYSQL\_GENERAL\_LOG=1 \

-t cytopia/mysql-5.5

# Access MySQL from your host computer

$ mysql --user=root --password=my-secret-pw --host=127.0.0.1 -e 'show databases;'

**3. Mount MySQL socket to the host**

Use MySQL socket for localhost connections through the socket. No need to expose the MySQL port to the host in this case.

$ docker run -i \

-v ~tmp/mysql-sock:/var/sock/mysqld \

-e MYSQL\_ROOT\_PASSWORD=my-secret-pw \

-t cytopia/mysql-5.5

# Access MySQL from your host computer via socket

$ mysql --user=root --password=my-secret-pw --socket=/var/sock/mysqld/mysqld.sock -e 'show databases;'

**4. Overwrite configuration**

You can also add any configuration settings prior startup to MySQL.

# Create local config with buffer overwrite

$ printf "[mysqld]\n%s\n" "key\_buffer = 500M" > ~/tmp/mysqld\_config/buffer.cnf

$ docker run -i \

-p 127.0.0.1:3306:3306 \

-v ~/tmp/mysqld\_config:/etc/mysql/conf.d \

-e MYSQL\_ROOT\_PASSWORD=my-secret-pw \

-t cytopia/mysql-5.5

**MySQL Configuration overview**

Configuration files inside this docker are read in the following order:

| **Order** | **File** | **Description** |
| --- | --- | --- |
| 1 | /etc/my.cnf | Operating system default |
| 2 | /etc/mysql/conf.d/ | Custom configuration (level 1). Can be mounted to provide custom \*.cnf files which can overwrite anything of the above. (used by the devilbox for its base configuration) |
| 3 | /etc/mysql/docker-default.d/\*.cnf | Custom configuration (level 2). Can be mounted to provide custom \*.cnf files which can overwrite anything of the above. (used by the devilbox to allow custom user-defined configuration overwriting the default devilbox settings. |

**Modules**

**[Version]**

mysqld Ver 5.5.57 for Linux on x86\_64 (MySQL Community Server (GPL))