

# MariaDB and MySQL Workbench Installation Guide for Mac

**Authors:** Giovani Meroni. With contributions by L. Bredmose, R. Borstrøm and A. Haxthausen.

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This guide explains, step by step, how to install MariaDB as a docker container on MacOS (see steps 0-3), how to run the installed MariaDB container instance (see step 4), and how to install and configure mySQL Workbench (see steps 5-6). Finally, there are some parts on trouble shooting. There is a separate user guide "MySQL Workbench - an Ultrashort Introduction" explaining how to use MySQL Workbench as an interface to the MariaDB docker container while that is running.

**Important:** please read this document thoroughly before starting. Only when you finished reading the whole document, and you understood all steps being involved, you should start doing the specified tasks.

## 0. Uninstall the local instance of MariaDB

**Important:** this step is needed only if you already installed MariaDB locally through brew.

- Open the Terminal.
- Run the following commands:

```
mysql.server stop  
brew remove mariadb  
brew cleanup
```

## 1. Install Docker Desktop

- Go to <https://docs.docker.com/desktop/install/mac-install/> and, depending on your platform (Intel or Apple Silicon), click on the appropriate button to download the DMG archive containing Docker installer.
- Mount the DMG archive and drag the Docker icon in the Applications folder.
- Dismount the DMG archive.
- Double-click the Docker.app application **in the Applications folder**.
- Select Accept to agree with the terms of service.
- If needed, authorize the Docker installer by entering your computer account credentials.
- Wait for the docker service to start. At the end, you will see a green square with text “Docker service is running” in the lower left portion of the Docker desktop window.

## 2. Download MariaDB container

- Open the Terminal.
- Run the following commands:

```
docker pull mariadb:10.6
```

## 3. Create a new MariaDB container instance

- Open the Terminal.

- Run the following command (all in one line) where `mypassword` should be replaced with the password you wish to use for the container:

```
docker run --name mariadbtest -e MYSQL_ROOT_PASSWORD=mypassword
-p 3306:3306 -d docker.io/library/mariadb:10.6
```

#### 4. Run the MariaDB container instance

**Important:** You should follow these steps **every time you reboot or turn on your computer.**

- Double-click the Docker.app application **in the Applications folder**.
- Wait for the docker service to start.
- In the Containers section, select the mariadbtest container instance, then click the play button to run it.

#### 5. Install MySQL Workbench

- Go to <https://downloads.mysql.com/archives/workbench/>
- Depending on your operating system, choose the appropriate version:
  - If you have macOS Big Sur (11) or older, choose macOS and Product version 8.0.22.
  - If you have macOS Monterey (12), Ventura (13), Sonoma (14), or Sequoia (15), choose macOS and Product version 8.0.33 or 8.0.41 (latest release January 25). (We have tested these versions).
- Depending on your platform (Intel or Apple Silicon), click on the appropriate button to download the DMG archive containing MySQL Workbench.

##### ④ MySQL Product Archives

◀ MySQL Workbench (Archived Versions)

Please note that these are old versions. New releases will have recent bug fixes and features!  
To download the latest release of MySQL Workbench, please visit [MySQL Downloads](#).

Product Version: 8.0.22 ← Use Product version based on your macOS version as stated in the installation guide  
Operating System: macOS

Packages for Catalina (10.15) are compatible with Mojave (10.14)

macOS (x86, 64-bit), DMG Archive (mysql-workbench-community-8.0.22-macos-x86_64.dmg)	Oct 1, 2020	109.2M	<span style="color:red">Download</span> <span style="border: 2px solid red; border-radius: 50%; padding: 2px;"> </span>
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We suggest that you use the [MD5 checksums](#) and [GnuPG signatures](#) to verify the integrity of the packages you download.

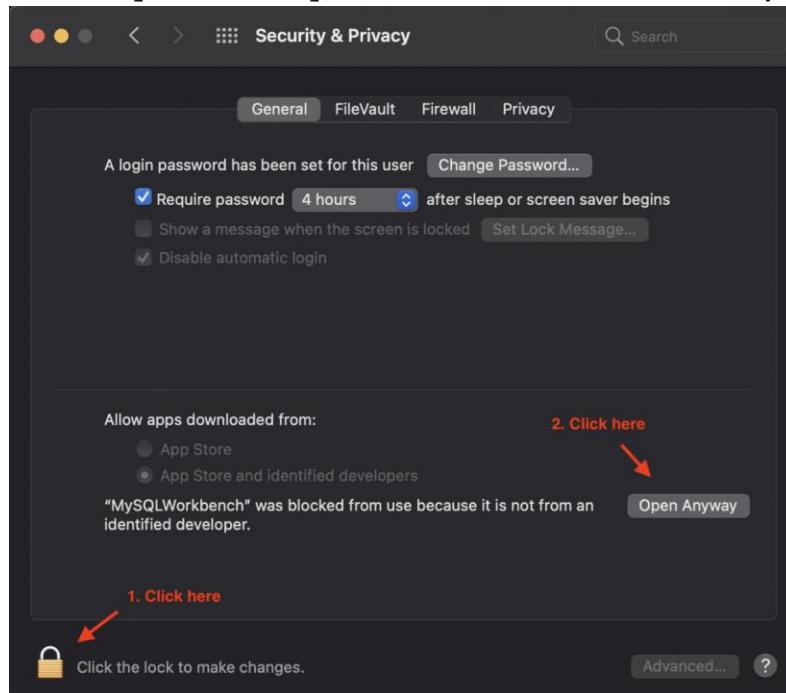
- Mount the DMG archive and drag the MySQL Workbench icon in the Applications folder.



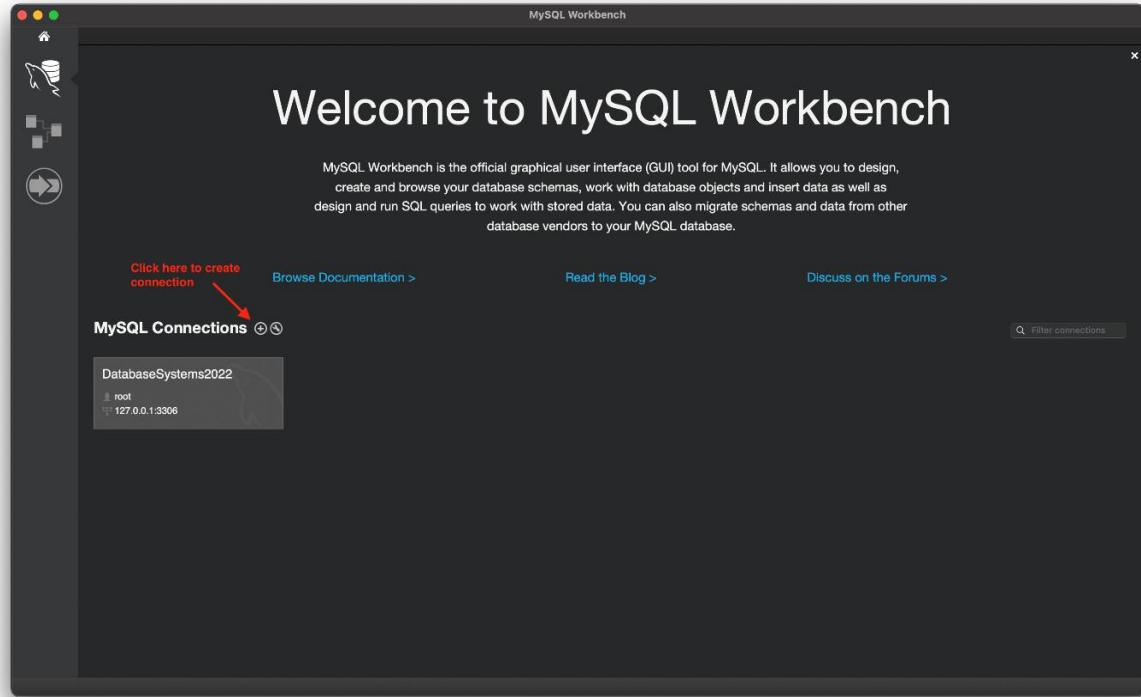
- Dismount the DMG archive.

## 6. Configure MySQL Workbench

- Double-click the MySQL Workbench application **in the Applications folder**.
  - If you are not allowed to open the program, go into: System Preferences -> Security & Privacy, click on the lock icon and then on **Open Anyway**.

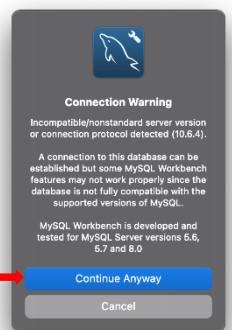


- From the new window, create a new connection by clicking on the + sign to the right of the “MySQL connections” text.

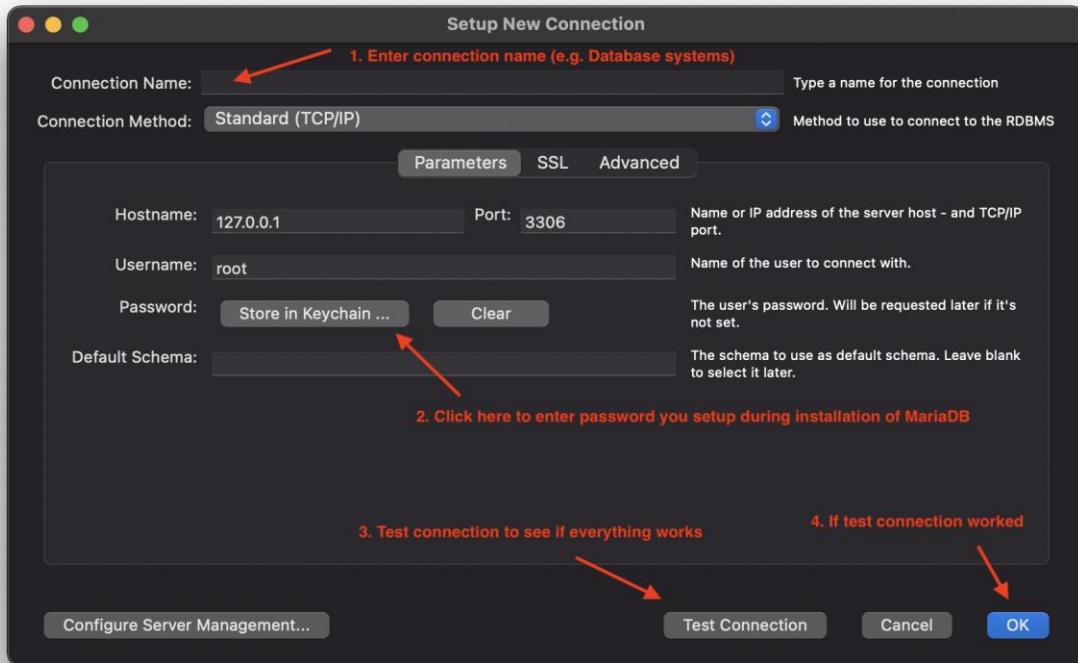


- In the resulting window (see screenshot further below), do the following:

1. Enter any name in the Connection Name field, `127.0.0.1` in the Hostname field, and `root` in the Username field.
2. Click the **Store in Keychain** button and enter `mypassword` as password, where `mypassword` is the password chosen for MariaDB in step 3.
3. Click **Test Connection** to ensure the connection works.
  - o If you get a warning message in a pop-up, simply click **Continue Anyway**.
  - o In a pop-up window, you will then be told whether the connection worked or not. Click **OK** and you will come back to the window below.
4. If the connection worked, click **OK**.



5. If the connection did not work, refer to the troubleshooting sections below.



## 7. (Troubleshoot) Cannot connect to the container instance

Note: you should follow these steps only if the MariaDB container instance is running, but you are unable to connect to it through MySQL Workbench.

- Open the Terminal.
- Find the IP address of the container instance by running the following command:

```
docker inspect -f '{{range .NetworkSettings.Networks}}{{.IPAddress}}{{end}}' mariadbtest
```

- Take note of the output.
- When creating the connection with MySQL Workbench, specify the IP address identified in the previous step instead of 127.0.0.1 in the Hostname field.
- **Alternative to previous step<sup>1</sup>:**

- Go to the Docker Desktop app.
- Open the Terminal of that container.
- Run the command: mysql -h 172.17.0.2 -u root -p

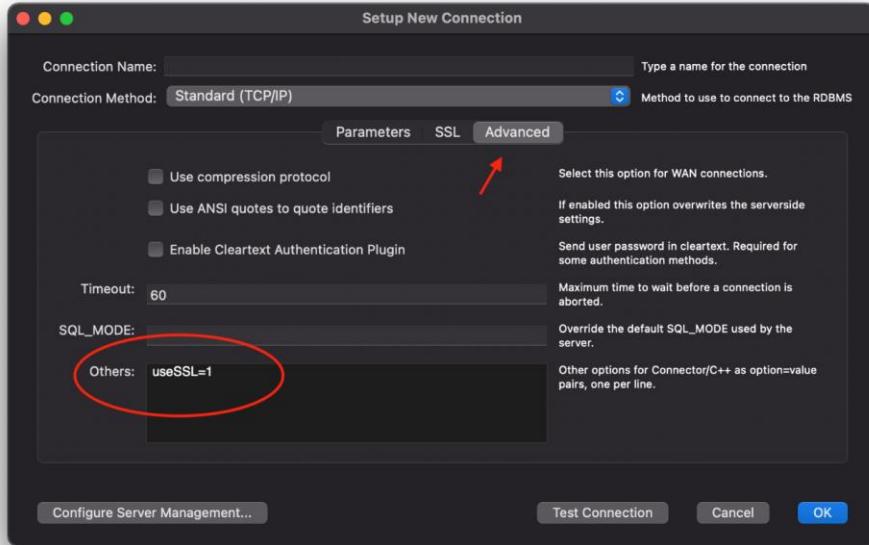
<sup>1</sup> Thanks to João Luís Gonçalves Mena for this hint.

- Test the connection in Workbench using the localhost IP address 127.0.0.1

## 8. (Troubleshoot) SSL connection error

Note: you should follow these steps only if the MariaDB container instance is running, but an SSL connection error occurs when you connect through MySQL Workbench.

- When creating the connection with MySQL Workbench, open the Advanced tab
- In the Others field, add the following line
  - UseSSL=1



## 9. (Troubleshoot) Delete the container instance

Note: you should follow these steps **only if you are experiencing problems with the container**. Also be advised that, by removing the container, **you will also delete all the databases!**

- Open the Terminal.
- Run the following commands:

```
docker stop mariadbtest
docker rm -v mariadbtest
```

- Repeat the steps in the “3. Create a new MariaDB container instance” section.