

MariaDB and MySQL Workbench Installation Guide for Mac

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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.

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

Operating System: macOS

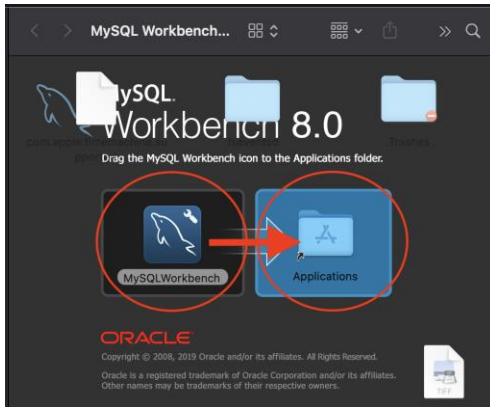
Use Product version based on your macOS version as stated in the installation guide

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

macOS (x86, 64-bit), DMG Archive <small>(mysql-workbench-community-8.0.22-macos-x86_64.dmg)</small>	Oct 1, 2020	109.2M	Download
<small>MD5: 55bc840c15828bbdc7279732b76ce7dd Signature</small>			

📘 We suggest that you use the [MD5 checksums](#) and [GnuPG signatures](#) to verify the integrity of the packages you download.

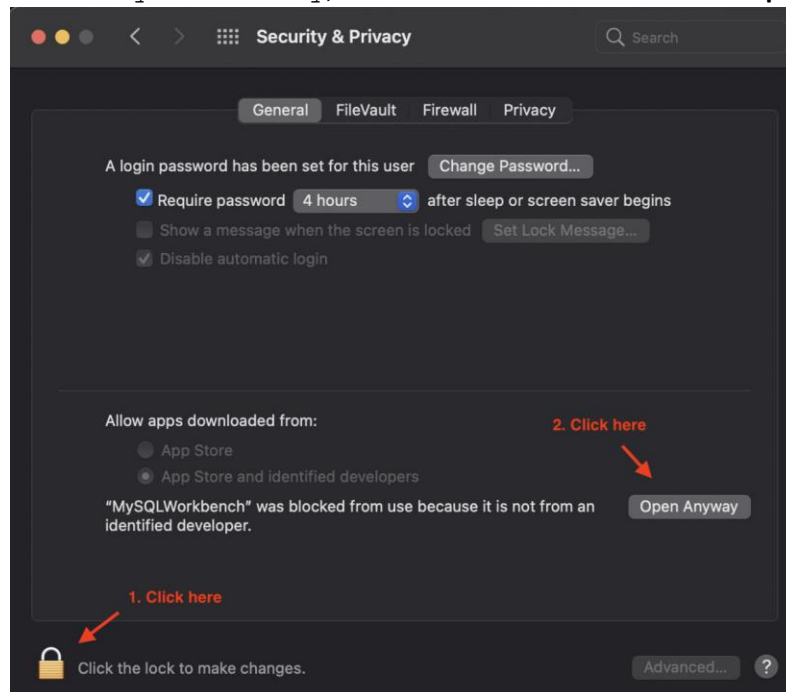
- Mount the DMG archive and drag the MySQL Workbench icon in the Applications folder.



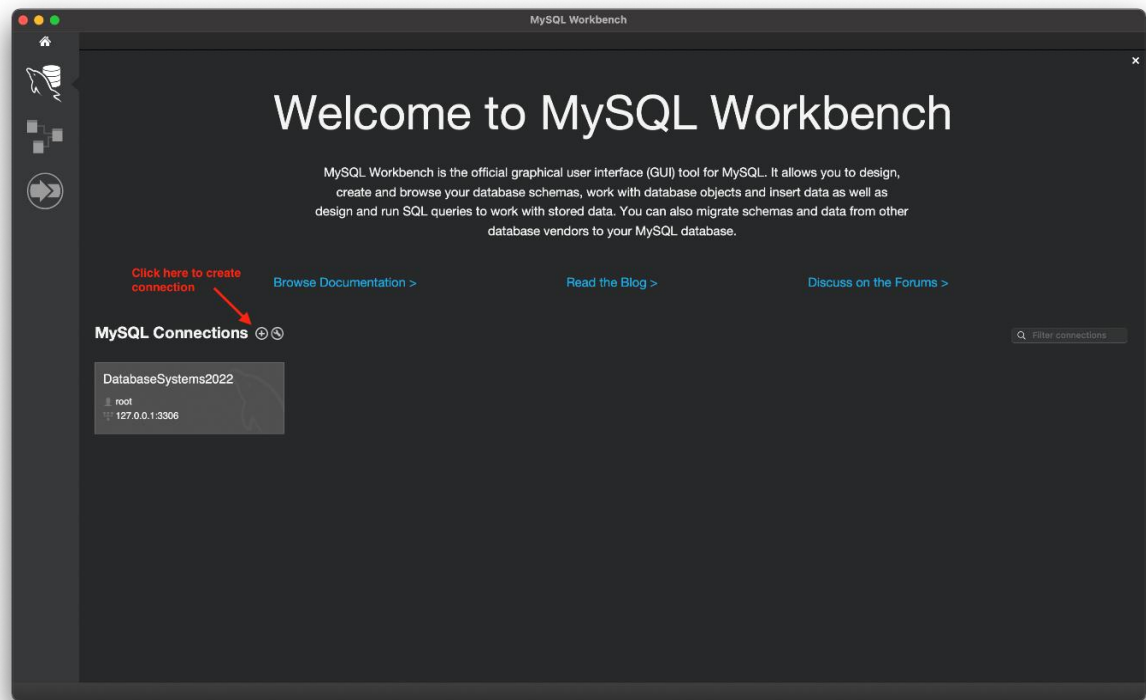
- Dismount the DMG archive.

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**.

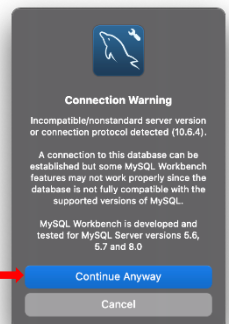


- From the new window, create a new connection by clicking on the + sign to the right of the “MySQL connections” text.

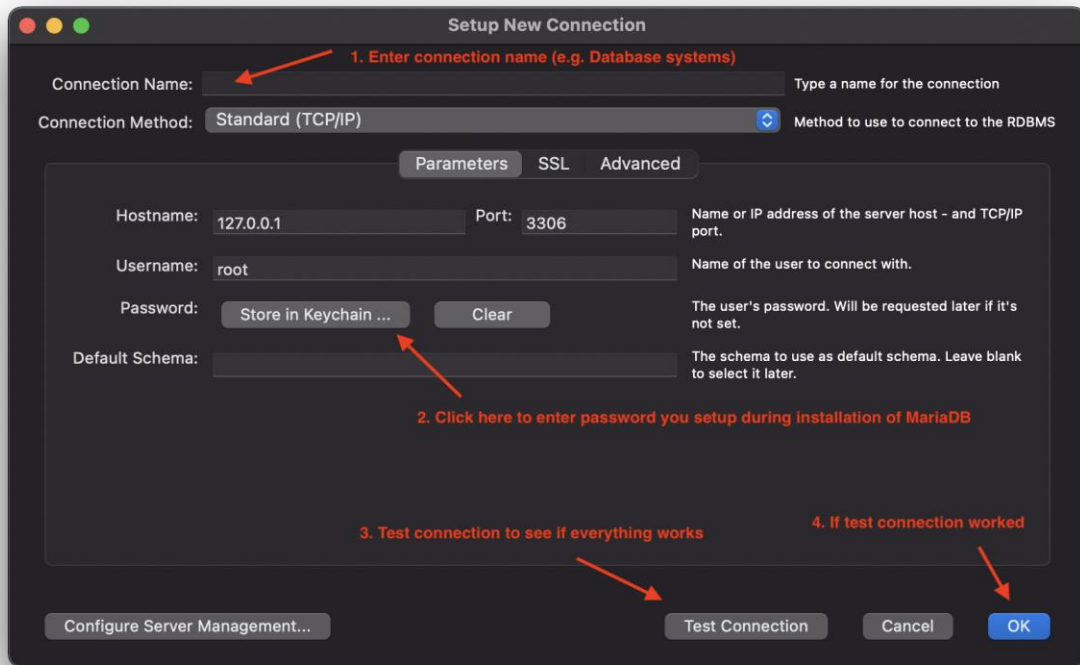


- In the resulting window (see screenshot further below), do the following:

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.
 - If you get a warning message in a pop-up, simply click **Continue Anyway**.
 - 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 step¹:**
 - Go to the Docker Desktop app.
 - Open the Terminal of that container.
 - Run the command: `mysql -h 172.17.0.2 -u root -p`

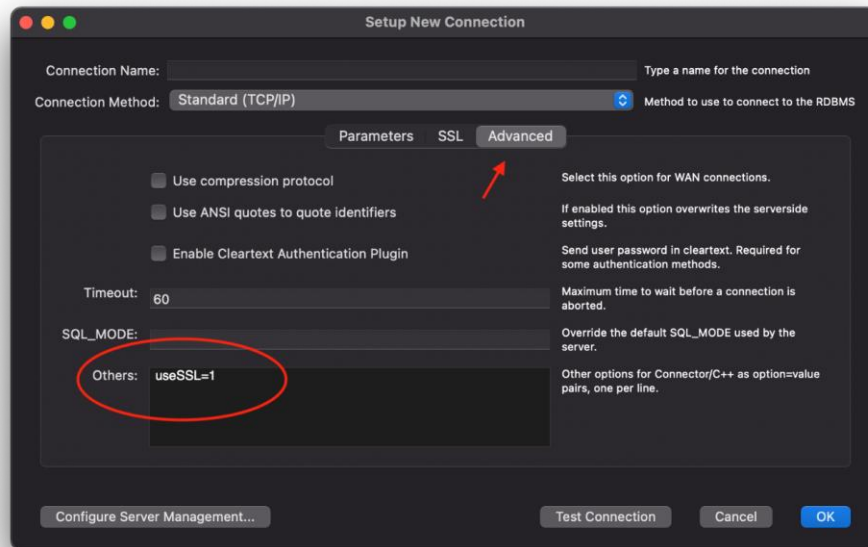
¹ Thanks to João Luís Gonçalves Mena for this hint.

- 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.