

Using LibreOffice with MariaDB [and Docker]

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MariaDB Foundation

Agenda

1. Start MariaDB server and create data
2. MariaDB ODBC connector
3. Start LibreOffice Base and connect to the running instance
4. Repeat above through the Docker
5. Use the DockerFile
6. Conclusion

MariaDB

- Free and open source database <https://github.com/mariadb/server>
- More about: <https://mariadb.org/>
- Want to contribute: <https://mariadb.org/contribute/>

MariaDB



Start with MariaDB

How to start:

<https://mariadb.com/kb/en/getting-installing-and-upgrading-mariadb/>

Starting from the source:

<https://mariadb.org/get-involved/getting-started-for-developers/get-code-build-test/>

Start the server and connect with the *mysql* (or *mariadb*) client.

Demo

MariaDB ODBC connector

- In order to connect MariaDB server with application through ODBC API, [MariaDB ODBC](#) (Open Database Connection) driver is used.
- Demo
 - Download [MariaDB ODBC connector](#) (latest version 3.1.7-ga)
 - Install unixodbc unixodbc-dev openssh-client odbcinst packages
 - Create template file for the Driver which will be recognized by unixODBC driver - [ODBC driver](#)
 - Install Driver to global configuration file `/etc/odbcinst.ini`
 - Create template file for the Data Source Names (DSN) in order to configure server's connection parameters.
 - Install DSN as user's local DSN in `~/.odbc.ini`
 - Verify setup by running `isql` utility with DSN (server needs to start before this step)

LibreOffice Base

- [LibreOffice Base](#) is free open source GUI RDBMS.
- *libreoffice-base* package (*apt update*)
- *Demo*

Docker

- https://hub.docker.com/_/mariadb

DEMO

- Create network
- Start MariaDB server in detached mode
- Verify connection with the mysql client
- Create the new container running the server with the user and new database
- Start the new container with mysql client and show grants for the new user
- Start LibreOffice Base from docker container (stop the first one and create the new one)

```
docker run --network mariadb-net --name mariadb-c2 -e MYSQL_USER=anel -e MYSQL_PASSWORD=anel -e  
MYSQL_DATABASE=libreoffice -e MYSQL_ROOT_PASSWORD=root -eDISPLAY=$DISPLAY  
-v/tmp/.X11-unix:/tmp/.X11-unix -d mariadb:10.5
```

- Install *libreoffice-base* package

Using the Docker File

- Get the Docker File with prepared packages and template files for MariaDB ODBC connector driver and DSN (Data Source Name) - [dockerfile](#) [change location]. It includes all steps to automate the process (wget [raw-file](#)).

```
wget https://bit.ly/38BT46S
```

Conclusion

- Contribute to LibreOffice Base on MariaDB KB: <https://mariadb.com/kb/en/libreoffice-base/>
- Contribute to MariaDB: <https://mariadb.org/contribute/>
- Thanks