

How To Raspberry Pi



How to install MariaDB on Raspbian and the Raspberry Pi

⌚ Mis à jour le 29 January 2018 - 📄 8 Commentaires - 🔗 Command line, free, Linux, MySQL, Nginx, Raspbian, tutorials



Now Raspbian install MariaDB by default instead of MySQL. To see how to install MySQL, [take a look here](#).

In the last tutorial, we showed you how to replace Apache by Nginx for your Raspbian system, in order to get a faster and less RAM-consuming web server.

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Web server on the Raspberry Pi by interesting us to
MariaDB on the Raspberry Pi.

a little more about MariaDB, what it is and what it

Serves.

Until now, we talked about MySQL, which is probably the most used DBMS (at least 56% market share on free technologies). But MySQL is not alone in the world of free DBMS and all its competitors, **the most serious is undoubtedly MariaDB**, whether by its market shares (18%), by its functionalities, very similar to those of MySQL, Or by its perfect compatibility with MySQL. Not surprisingly, since **the creator of MariaDB ([Michael Widenius](#)) is also the creator of MySQL**.

Why did Michael Widenius create MariaDB instead of continuing to improve MySQL?

To find the answer to this question, you have to make a small jump back in the history of MySQL.

In 1995 Michael Widenius founded MySQL AB, an open source software company, and soon became a major player in the database industry.

In 2008, MySQL was bought for \$ 1 billion by Sun Microsystems, another major player in the field of open source software.

In 2009, Sun Microsystems was acquired by Oracle, and MySQL with it.

It is at this moment that everything will change. There were real concerns about Oracle's willingness to maintain and evolve MySQL in an open source and free way, with Oracle already offering a competing, paying, proprietary solution for large companies, the well-known Oracle Database.

In 2009, Michael Widenius leaves Sun on his redemption, get back the source code of MySQL (free software) and launches a petition to pressure Oracle to continue to develop MySQL.

In order to ensure that the code of MySQL remains free, and that it does not disappear, Michael Widenius will then create a new DBMS, fork of MySQL (a fork is a software created from the source code of another).

He will name this DBMS after his second daughter name, Maria, as he had done with MySQL and his first daughter, My.

A foundation will then be create, the MariaDB Foundation, to ensure the governance of the project.

Since then, MariaDB develops more and more every day, continuing to ensure compatibility

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still free, so **why install MariaDB instead of MySQL**

First of all, because MySQL is distributed by Oracle, and **Oracle is not very well seen in the world of free software, often preferring a proprietary logic**, which is both stupid and wrong! Then, because **MySQL may not remain open-source for a very long time**, it is already dual-licensed, free and proprietary. Also, because **MariaDB is 100% compatible with MySQL**, and so there is no reason not to. Finally, and this is probably what will interest you most, **for performance issues**.

If MariaDB is increasingly used, it is not just because it is more open source than MySQL, but **mainly because it is more efficient**.

Indeed, benefiting from a large community of developers, and the experience of its creator, MariaDB presents performances superior to MySQL, while being perfectly compatible with this one. This means that to improve your site, **simply install MariaDB instead of MySQL, and you will not even need to change the code of your website and applications!**

MariaDB has a real performance improvement compared to MySQL, especially on complex queries. This is due in part to the use of the Aria engine rather than the InnoDB engine and the optimization efforts at the heart of the MariaDB project (you can find comparisons between MariaDB and MySQL on this point [at this address](#)).

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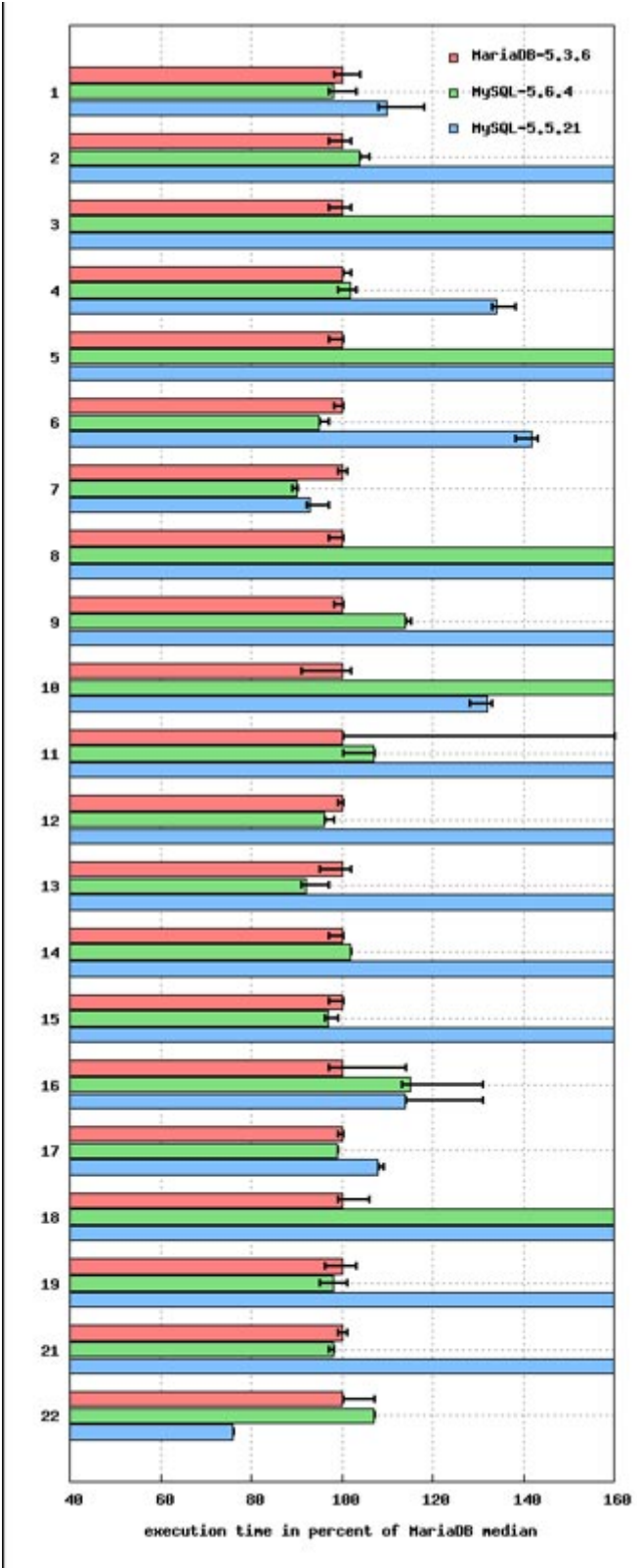
To give you an idea of this difference, here is a quick benchmark comparing MariaDB and MySQL.

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Performance Comparison for MySQL and MariaDB.

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MySQL 5.5.21
MySQL 5.6.4
MariaDB 5.3.6
<http://blog.mariadb.org>

real counterpart to the advantages of MariaDB
do but **disable MySQL** and install MariaDB.

MariaDB is therefore a perfect choice for a Raspberry Pi using Raspbian, since the RAM resources are limited, with only 1 GB for the Raspberry Pi 3 (by the way, if you do not already have it, you can find it here on Amazon) and only 512MB for the Raspberry Pi Zero (which you can [find there](#)).

Install MariaDB on Raspbian

With the new version of Raspbian, MariaDB is now present in the official repositories, which until now was not the case!

To install it, nothing more simple therefore, you just need to run the following command:

```
sudo apt-get install mariadb-server
```

If you already have MySQL installed, it is likely that the package manager notifies you of a conflict and asks if it needs to uninstall MySQL. **In this case, answer yes.**

During the installation, MariaDB will configure itself. It's up to you **to provide the administrator account for the database.**

This done, it should ask you if you are sure to want to go under MariaDB. **Again, answer yes.**

Once the installation is complete, you will be able to access MariaDB as you did with MySQL, simply with the following command:

```
mysql -u user -p
```

Conclusion

Here, you now know **how to install MariaDB on the Raspberry Pi.**

As you may have seen, during this tutorial we have often referred to Nginx, and it's not for nothing. Indeed, the couple Nginx / MariaDB is more or less the modern equivalent of the pair Apache / MySQL. **We strongly encourage you to use Nginx with MariaDB for an ever faster web server!**

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Raspbian France

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Dmitri

And what is default password?

```
pi@raspberrypi:~ $ mysql -u user -p
```

Enter password:

```
ERROR 1698 (28000): Access denied for user 'user'@'localhost'
```

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You should use sudo, but actually this tutorial is not so relevant anymore as mariadb came by default instead of mysql now.

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Raspbian France

Yep, since few version now raspbian have replace mysql by mariadb by default

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luhg

good article

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p.gersche

How can i Import a mysql db backup from my site to mariadb?
Aer there any known issues between mysql and mariadb?

Thanks

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Raspbian France

You can import it just like with MySQL, no issues between thoses.

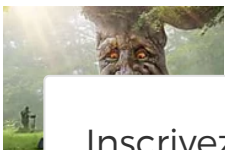
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Dennis

Myphpadmin works with either Apache or Lighttpd. Nginx isn't an option in the installation and it appears there are some steps to go through to make it work with Nginx.

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