

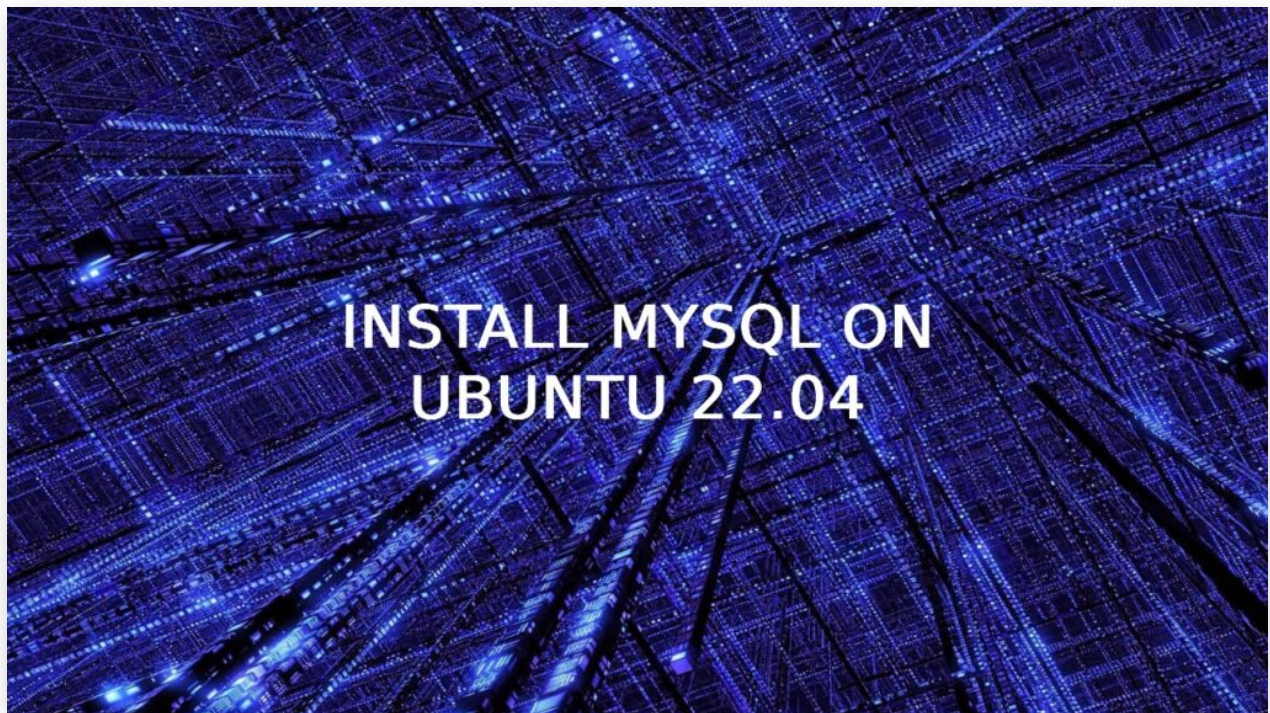


LINUX

How to Install MySQL on Ubuntu 22.04

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BY **CLOUDBOOKLET** - MAY 2, 2022



How to Install MySQL on Ubuntu 22.04. [MySQL](#) is the most popular open-source relational database management system which is supported by a huge and active

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This setup is tested on Google Cloud Platform, so it works fine on any cloud services like AWS, Azure or any VPS or Dedicated servers.

Install MySQL

Start by updating the packages to the latest version available.

```
sudo apt update  
sudo apt upgrade
```

In Ubuntu 22.04 MySQL 8 is included by default in the repositories, so you can install it easily using the `apt install` command.

```
sudo apt install mysql-server
```

Once the installation is completed, the MySQL service will start automatically. To verify that the MySQL server is running, type:

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- **mysql.service - MySQL Community Server**

Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: enabled)

Active: active (running) since Fri 2022-04-29 00:38:45 UTC; 11s ago

Process: 13836 ExecStartPre=/usr/share/mysql/mysql-systemd-start pre (code=exited, statu>

Main PID: 13844 (mysqld)

Status: "Server is operational"

Tasks: 38 (limit: 1151)

Memory: 351.4M

CPU: 1.043s

CGroup: /system.slice/mysql.service

└─13844 /usr/sbin/mysqld

Securing MySQL

MySQL installation comes with a script named `mysql_secure_installation` that allows you to easily improve the MySQL server security.

```
sudo mysql_secure_installation
```

You will be asked to configure the `VALIDATE PASSWORD PLUGIN` which is used to test the strength of the MySQL users passwords and improve the security.

Securing the MySQL server deployment

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and allows the users to set only those passwords which are secure enough. Would you like to setup VALIDATE PASSWORD component?

Press y|Y for Yes, any other key for No:

Press **y** if you want to set up the validate password plugin or any other key to move to the next step.

There are three levels of password validation policy, low, medium, and strong.

There are three levels of password validation policy:

LOW Length >= 8

MEDIUM Length >= 8, numeric, mixed case, and special characters

STRONG Length >= 8, numeric, mixed case, special characters and dictionary file

Please enter 0 = LOW, 1 = MEDIUM and 2 = STRONG:

Enter 2 for strong password validation.





On the next prompt, you will be asked to set a password for the MySQL root user.

Please set the password for root here.

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Ok



Do you wish to continue with the password provided?(Press y|Y for Yes,
any other key for No)    

Next, you'll be asked to remove the anonymous user, restrict root user access to the local machine, remove the test database, and reload privilege tables. You should answer **y** to all questions.

Login to MySQL as root

In MySQL 8.0, the root user is authenticated by the **auth_socket** plugin by default.

The **auth_socket** plugin authenticates users that connect from the **localhost** through the Unix socket file. This means that you can't authenticate as root by providing a password.

To log in to the MySQL server as the root user, execute the following command.

```
sudo mysql
```

You will be presented with the MySQL shell, as shown below:

Now you can change the authentication type which helps you to login to your MySQL server as root using an external program such as phpMyAdmin. Learn how to [install PhpMyAdmin for MySQL](#).

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This is the recommended option by creating a new dedicated administrative user with access to all databases!

```
CREATE USER 'admin'@'localhost' IDENTIFIED BY 'password';
```

```
GRANT ALL PRIVILEGES ON *.* TO 'admin'@'localhost' WITH GRANT OPTION;  
FLUSH PRIVILEGES;
```

Method 2: Change Authentication Method

You can change the authentication method from `auth_socket` to `mysql_native_password`. You can do that by running the following command:

```
ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY  
'your_password';  
FLUSH PRIVILEGES;
```

That's it. Great!

Prepare yourself for a role working as an [Information Technology Professional](#) with Linux operating system

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