Installing **MySQL** on **Ubuntu 24.04 LTS** is straightforward using the official MySQL APT repository. Follow these steps to get MySQL installed and running.

**1️⃣ Update Your System**

First, update the package index to ensure you get the latest versions:

sudo apt update && sudo apt upgrade -y

**2️⃣ Install MySQL Server**

Ubuntu’s default repository contains MySQL, so install it using:

sudo apt install mysql-server -y

This will install **MySQL 8.x**, which is the latest stable version.

**3️⃣ Secure MySQL Installation**

Run the following command to improve security settings:

sudo mysql\_secure\_installation

* It will prompt you to set a **root password** (if not already set).
* You’ll be asked security questions such as **removing anonymous users**, **disabling remote root login**, and **removing the test database**. Answer **Y** (Yes) to all for better security.

**4️⃣ Start and Enable MySQL**

Ensure MySQL starts automatically on system boot:

sudo systemctl enable mysql

sudo systemctl start mysql

Check if MySQL is running:

sudo systemctl status mysql

If it's running, you should see **"active (running)"** in green.

**5️⃣ Log Into MySQL**

To access MySQL as root, use:

sudo mysql -u root -p

Enter the root password when prompted.

**6️⃣ Create a New User and Database (Optional)**

For security reasons, it’s recommended to create a separate MySQL user instead of using root.

**➤ Create a Database**

CREATE DATABASE mydatabase;

**➤ Create a User**

CREATE USER 'myuser'@'localhost' IDENTIFIED BY 'mypassword';

**➤ Grant Permissions**

GRANT ALL PRIVILEGES ON mydatabase.\* TO 'myuser'@'localhost';

FLUSH PRIVILEGES;

Now, you can log in with:

mysql -u myuser -p

**7️⃣ Allow Remote Connections (Optional)**

By default, MySQL only allows connections from localhost. If you want to allow remote access:

1. Edit the MySQL config file:
2. sudo nano /etc/mysql/mysql.conf.d/mysqld.cnf
3. Find the line:
4. bind-address = 127.0.0.1

Change it to:

bind-address = 0.0.0.0

1. Restart MySQL:
2. sudo systemctl restart mysql
3. Allow traffic on **port 3306** (default MySQL port):
4. sudo ufw allow 3306/tcp
5. sudo ufw reload

**🎉 Done!**

Your MySQL server is now installed and running on Ubuntu 24.04! 🚀

Would you like help setting up **MySQL Workbench** or configuring **replication**? 😊