# How To Install MySQL on CentOS 7

Prerequisites

To follow this tutorial, you will need:

* A CentOS 7 with a non-root user with sudo privileges. You can learn more about how to set up a user with these privileges in the [Initial Server Setup with CentOS 7](https://www.digitalocean.com/community/tutorials/initial-server-setup-with-centos-7) guide.

Step 1 — Installing MySQL

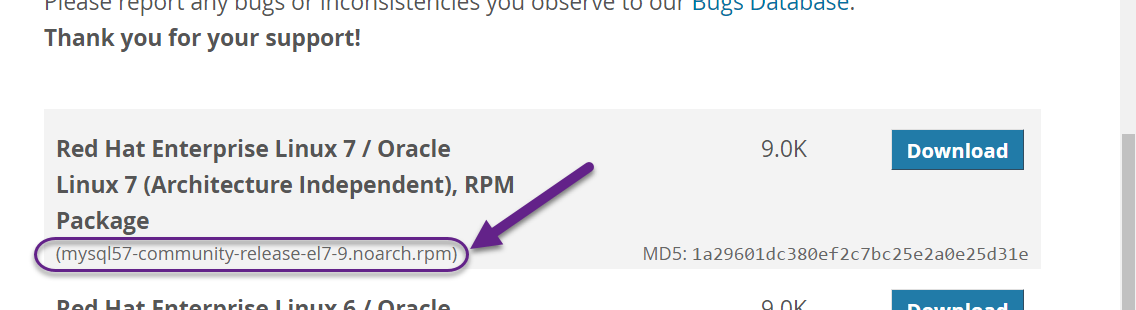
As mentioned in the introduction, the Yum command to install MySQL in fact installs MariaDB. To install MySQL, we'll need to visit [the MySQL community Yum Repository](https://dev.mysql.com/downloads/repo/yum/) which provides packages for MySQL.

In a web browser, visit:

https://dev.mysql.com/downloads/repo/yum/

Note that the prominent Download links don't lead directly to the files. Instead, they lead to a subsequent page where you're invited to log in or sign up for an account. If you don't want to create an account, you can locate the text "No thanks, just start my download", then right-click and copy the link location, or you can edit the version number in the commands below.

Locate the desired version, and update it as needed in the link below:



* wget https://dev.mysql.com/get/mysql57-community-release-el7-9.noarch.rpm

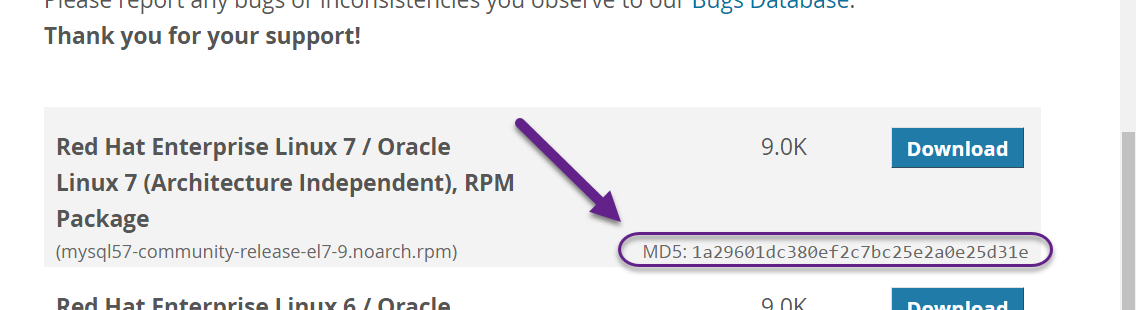
Once the rpm file is saved, we will verify the integrity of the download by running md5sum and comparing it with the corresponding MD5 value listed on the site:

* md5sum mysql57-community-release-el7-9.noarch.rpm

Output

1a29601dc380ef2c7bc25e2a0e25d31e mysql57-community-release-el7-9.noarch.rpm

Compare this output with the appropriate MD5 value on the site:



Now that we've verified that the file wasn't corrupted or changed, we'll install the package:

* sudo rpm -ivh mysql57-community-release-el7-9.noarch.rpm

This adds two new MySQL yum repositories, and we can now use them to install MySQL server:

* sudo yum install mysql-server

Press y to confirm that you want to proceed. Since we've just added the package, we'll also be prompted to accept its GPG key. Press y to download it and complete the install.

Step 2 — Starting MySQL

We'll start the daemon with the following command:

* sudo systemctl start mysqld

systemctl doesn't display the outcome of all service management commands, so to be sure we succeeded, we'll use the following command:

* sudo systemctl status mysqld

If MySQL has successfully started, the output should contain Active: active (running) and the final line should look something like:

* Dec 01 19:02:20 centos-512mb-sfo2-02 systemd[1]: Started MySQL Server.

**Note:** MySQL is automatically enabled to start at boot when it is installed. You can change that default behavior with sudo systemctl disable mysqld

During the installation process, a temporary password is generated for the MySQL root user. Locate it in the mysqld.log with this command:

* sudo grep 'temporary password' /var/log/mysqld.log

Output

2016-12-01T00:22:31.416107Z 1 [Note] A temporary password is generated for root@localhost: mqRfBU\_3Xk>r

Make note of the password, which you will need in the next step to secure the installation and where you will be forced to change it. The default password policy requires 12 characters, with at least one uppercase letter, one lowercase letter, one number and one special character.

Step 3 — Configuring MySQL

MySQL includes a security script to change some of the less secure default options for things like remote root logins and sample users.

Use this command to run the security script.

* sudo mysql\_secure\_installation

This will prompt you for the default root password. As soon as you enter it, you will be required to change it.

Output

The existing password for the user account root has expired. Please set a new password.

New password:

Enter a new 12-character password that contains at least one uppercase letter, one lowercase letter, one number and one special character. Re-enter it when prompted.

You'll receive feedback on the strength of your new password, and then you'll be immediately prompted to change it again. Since you just did, you can confidently say No:

Output

Estimated strength of the password: 100

Change the password for root ? (Press y|Y for Yes, any other key for No) :

After we decline the prompt to change the password again, we'll press Y and then ENTER to all the subsequent questions in order to remove anonymous users, disallow remote root login, remove the test database and access to it, and reload the privilege tables.

Now that we've secured the installation, let's test it.

Step 4 — Testing MySQL

We can verify our installation and get information about it by connecting with the mysqladmin tool, a client that lets you run administrative commands. Use the following command to connect to MySQL as **root** (-u root), prompt for a password (-p), and return the version.

* mysqladmin -u root -p version