

# Install MariaDB

To install MariaDB, run the command below;

```
# apt-get install mariadb-server mariadb-client
```

When installed, MariaDB is started and enabled to run on system boot.

```
# systemctl is-enabled mariadb
enabled
# systemctl status mariadb

● mariadb.service - MariaDB 10.3.15 database server
   Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2019-07-18 15:31:35 EDT; 9min ago
     Docs: man:mysql(8)
           https://mariadb.com/kb/en/library/systemd/
  Main PID: 2356 (mysqld)
    Status: "Taking your SQL requests now..."
     Tasks: 31 (limit: 1150)
    Memory: 76.4M
    CGroup: /system.slice/mariadb.service
            └─2356 /usr/sbin/mysqld
```

After installing MariaDB database server, the commands below can be used to stop, start and enable MariaDB service to always start up when the server boots.

```
# systemctl stop mariadb.service
# systemctl start mariadb.service
# systemctl enable mariadb.service
```

## Database location

Database is located at:

```
# cd /var/lib/mysql/
```

## Check location used config file

The location of the used config file can be found by:

```
/usr/sbin/mysqld --verbose --help | grep -A 1 "Default options"
```

## MariaDB initial Security

By default, MariaDB uses unix\_socket plugin for authentication and thus, it doesn't require password to login. You can simply run `mysql` or `mysql -u root` to login to MariaDB server.

```
# mysql
```

```
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 48
Server version: 10.3.15-MariaDB-1 Debian 10
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input
statement.
MariaDB [(none)]>
```

You can now run the `mysql_secure_installation` script to remove MariaDB test databases, anonymous users and disallow remote root login. To run the script, just run the command below

```
# mysql_secure_installation
```

When prompted, answer the questions below by following the guide.

Enter current password for root (enter for none): Just press the Enter

- Set root password? [Y/n]: Y
- New password: Enter password
- Re-enter new password: Repeat password
- Remove anonymous users? [Y/n]: Y
- Disallow root login remotely? [Y/n]: Y
- Remove test database and access to it? [Y/n]: Y
- Reload privilege tables now? [Y/n]: Y
- Restart MariaDB server

To test if MariaDB is installed, type the commands below to logon to MariaDB server

```
# sudo mysql -u root -p
```

Then type the password you created above to sign on... if successful, you should see MariaDB welcome message

## Remote Access

By default the remote access is disabled. In order to enable remote access make the following changes to the configuration file:

```
# nano /etc/mysql/mariadb.conf.d/50-server.cnf

Disabled the line: bind-address = 127.0.0.1.
```

```
#bind-address          = 127.0.0.1
```

```
#And add 2 new lines:  
skip-networking=0  
skip-bind-address
```

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