

# Database

## MySQL Database Installation

HUBzero should work with any MySQL 5.5 compatible database. We have used MySQL 5.5.x, 5.6.x, MariaDB 5.5.x, 10.1.x, 10.3.x, Percona XtraDB Cluster 5.7.x.

For CentOS 7 and Redhat Enterprise 7 we recommend MariaDB 5.5.x directly from the MariaDB rpm repositories as they are maintaining longer term support. (<https://downloads.mariadb.org/mariadb/repositories>).

## CentOS 7 - MariaDB Database Installation

```
cat << EOF > /etc/yum.repos.d/mariadb-5.5.repo
# MariaDB 5.5 CentOS repository list
# http://downloads.mariadb.org/mariadb/repositories/
[mariadb]
name = MariaDB
baseurl = http://yum.mariadb.org/5.5/centos7-amd64
gpgkey=https://yum.mariadb.org/RPM-GPG-KEY-MariaDB
gpgcheck=1
EOF

sudo yum install -y MariaDB-server
sudo service mysql start
sudo chkconfig mysql on
```

## RedHat Enterprise Linux 7 - MariaDB Database Installation

```
sudo cat << EOF > /etc/yum.repos.d/mariadb-5.5.repo
# MariaDB 5.5 RedHat repository list
# http://downloads.mariadb.org/mariadb/repositories/
[mariadb]
name = MariaDB
baseurl = http://yum.mariadb.org/5.5/rhel7-amd64
gpgkey=https://yum.mariadb.org/RPM-GPG-KEY-MariaDB
gpgcheck=1
EOF

sudo yum install -y MariaDB-server
sudo service mysql start
sudo chkconfig mysql on
```

### **Configure**

Default configuration works well for starters. But for optimal performance you will need a database administrator capable of tuning your database to your hardware configuration and site usage.