
Ad Hoc Tutorials - adhoc.tuts@gmail.com

- Bismillahi-r-Rahmani-r-Rahim (In the name of Allah, the most Compassionate, the most Merciful),
- Assalamu alaikum wa rahmatullahi wa barakatuh (May the peace, mercy, and blessings of Allah be with you).

This is the ad hoc tutorial on how to setup MySQL 80/57/56/55 in CentOS 7 or Apache+PHP web server in CentOS 7.

<https://adhoctuts.com/setup-mysql-80-57-56-55-in-centos-7-or-apachephp-web-server-centos/>
<https://youtu.be/RurGNG101o0>

Below content is complementary to the video tutorial above:

Install and configure MySQL (check for repo name <https://dev.mysql.com/downloads/repo/yum/>):

```
yum install -y wget nano
wget http://dev.mysql.com/get/mysql80-community-release-el7-1.noarch.rpm
yum -y localinstall mysql80-community-release-el7-1.noarch.rpm
yum repolist all | grep mysql
```

If need enable the mysql version you want to install:

```
nano /etc/yum.repos.d/mysql-community.repo
```

Continue the installation process:

```
yum install -y mysql-community-server
systemctl start mysqld && systemctl enable mysqld
grep 'temporary password' /var/log/mysqld.log
mysql_secure_installation
```

```
yum -y update mysql-server
mysqld -V
mysql --version
rm -f mysql*.rpm
```

Configure MySQL:

```
nano /etc/my.cnf
```

Set the following parameters in my.cnf file:

```
innodb_buffer_pool_size = 512M
join_buffer_size = 256M
tmp_table_size = 128M
max_heap_table_size = 128M
sql-mode=""
slow_query_log=1
general_log=0
log-output=TABLE
default_authentication_plugin=mysql_native_password
```

Restart the mysql service and configure the firewall:

```
service mysqld restart
firewall-cmd --zone=public --add-port=3306/tcp --permanent
firewall-cmd --reload
```

Or disable the firewall:

```
systemctl stop firewalld && systemctl disable firewalld
```

Login to MySQL console, create your first database and user:

```
mysql -u root -p'Adhochtuts2018#'
CREATE DATABASE adhochtuts;
CREATE USER 'adhochtuts'@'192.168.%.%' identified by 'Adhochtuts2018#';
GRANT ALL PRIVILEGES on adhochtuts.* to 'adhochtuts'@'192.168.%.%' ;
CREATE USER 'adhochtuts'@'localhost' identified by 'Adhochtuts2018#';
exit
```

Execute below step if you install MySQL on Apache+PHP web server to test PHP PDO:

```
php -r '$con=new
PDO("mysql:host=localhost;dbname=information_schema;port=3306;charset=utf8"
, "adhochtuts", "Adhochtuts2018#");$stmt = $con->prepare("select version() as
MYSQL_VERSION, now() as
TIME");$stmt->execute();$stmt->setFetchMode(PDO::FETCH_ASSOC);var_dump($stm
t->fetch());'
```

Download and install [HeidiSQL](#) into your PC (or any MySQL client you prefer).
Connect and test your newly created database.

PS: If you get Authentication plugin 'caching_sha2_password' cannot be loaded error for the user try the following in MySQL console:

```
ALTER USER 'user'@'localhost' IDENTIFIED WITH mysql_native_password BY  
'password';
```