MySQL安装操作文档

- 一、MySQL安装
- 1、下载并安装MySQL官方的 Yum Repository

```
# wget -i -c http://dev.mysql.com/get/mysql57-community-release-el7-10.noarch.rpm
```

```
root@localhost test| # wget -i -c http://dev.mysql.com/get/mysql57-community-release-e
i7-10, noarch, rpm
 -2019-02-13 12:23:30-- http://dev.mysql.com/get/mysql57-community-release-el7-10.noar
ch, rpm
正在解析主机 dev.mysql.com (dev.mysql.com)... 137.254.60.11
正在连接 dev.mysql.com (dev.mysql.com)|137.254.60.11|:80... 已连接。
已发出 HTTP 请求,正在等待回应... 301 Moved Permanently
位置:https://dev.mysql.com/get/mysql57-community-release-el7-10.noarch.rpm |跟随至新的
 URL
 -2019-02-13 12:23:34-- https://dev.mysql.com/get/mysql57-community-release-el7-10.noa
rch.rpm
正在连接 dev.mysql.com (dev.mysql.com)|137.254.60.11|:443... 已连接。
已发出 HTTP 请求,正在等待回应... 302 Found
位置:https://repo.mysql.com//mysql57-community-release-el7-10.noarch.rpm [跟随至新的 U
 -2019-02-13 12:23:40-- https://repo.mysql.com//mysql57-community-release-el7-10.noarc
n.rpm
正在解析主机 repo.mysql.com (repo.mysql.com),,, 23,35,181,109
正在连接 repo.mysql.com (repo.mysql.com)|23,35,181,109|:443,,, 已连接。
已发出 HTTP 请求,正在等待回应,,, 200 oK
长度:25548 (25K) [application/x-redhat-package-manager]
正在保存至: "mysql57-community-release-el7-10,noarch.rpm"
                                                                          ⇒ 25,548
                                                                                                --.-K/s 用时 0.1s
100%[=
                                                                           ⇒ 25,548
                                                                                                 --.-K/s 用时 0.1s
2019-02-13 12:23:41 (187 KB/s) - 已保存 "mysql57-community-release-el7-10.noarch.rpm"
25548/25548))
 ·c:没有那个文件或目录
在-c中找不到 URL。
```

使用上面的命令就直接下载了安装用的Yum Repository,大概25KB的样子,然后就可以直接yum安装了。

2、用yum安装mysql依赖包

```
# yum -y install mysgl57-community-release-el7-10.noarch.rpm
```

FINISHED -- 2019-02-13 12:23:41--

Downloaded: 1 files, 25K in 0.1s (187 KB/s)

```
[root®localhost test]# yum -y install mysql57-community-release-el7-10,noarch.rpm
已加载插件: fastestmirror, langpacks
正在检查 mysql57-community-release-el7-10, noarch, rpm: mysql57-community-release-el7-10,
noarch
mysql57-community-release-el7-10,noarch.rpm 将被安装
正在解决依赖关系
·->正在检查事务
·--> 软件包 mysql57-community-release.noarch.0.el7-10 将被 安装
->解决依赖关系完成
依赖关系解决
Package
                         架构
                                版本
                                       源
正在安装:
mysql57-community-release
                         noarch el7-10 /mysql57-community-release-el7-10.noarch 30 k
事务概要
安装 1 软件包
总计:30 k
安装大小:30 k
```

```
总计:30 k
安装大小:30 k
Downloading packages:
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
正在安装 : mysql57-community-release-el7-10.noarch 1/1
验证中 : mysql57-community-release-el7-10.noarch 1/1
已安装:
mysql57-community-release.noarch 0:el7-10
```

3、再安装mysql服务器

```
# yum -y install mysql-community-server
```

这步可能会花些时间,安装完成后就会覆盖掉之前的mariadb。

```
已安装:
    mysql-community-libs.x86_64 0:5.7.25-1.el7
    mysql-community-libs-compat.x86_64 0:5.7.25-1.el7
    mysql-community-server.x86_64 0:5.7.25-1.el7

作为依赖被安装:
    mysql-community-client.x86_64 0:5.7.25-1.el7
    mysql-community-client.x86_64 0:5.7.25-1.el7

    mysql-community-common.x86_64 0:5.7.25-1.el7

替代:
    mariadb-libs.x86_64 1:5.5.60-1.el7_5

完毕!
```

至此MySQL就安装完成了, 然后是对MySQL的一些设置

二、MYSQL配置

1、启动mysql服务

```
# systemctl start mysqld.service
```

查看服务运行状态

```
# systemctl status mysqld.service
```

此时MySQL已经开始正常运行,不过要想进入MySQL还得先找出此时root用户的密码,通过如下命令可以在日志文件中找出密码:

```
# grep "password" /var/log/mysqld.log
```

```
[root®localhost test] # grep 'password' /var/log/mysqld.log
2019-02-13T08:03:11.914074Z 1 [Note] A temporary password is generated for root®localho
st: /YHj6IpsolFr
```

2、进入数据库

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

```
[root®localhost test] # mysql -uroot -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 2
Server version: 5.7.25

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> ■
```

输入初始密码(/YHj6lpso1Fr),此时不能做任何事情,因为MySQL默认必须修改密码之后才能操作数据库。

3、修改初始密码

```
mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'new password****';
```

```
mysql> ALTER USER''root'®'localhost' IDENTIFIED BY 'Zhx123456!!';
Query OK, O rows affected (0.04 sec)
```

mysql默认安装了密码安全检查插件(validate_password),默认密码检查策略要求密码必须包含:大小写字母、数字和特殊符号,并且长度不能少于8位。否则会提示ERROR 1819 (HY000): Your password does not satisfy the current policy requirements错误。

```
mysql> ALTER USER 'root'®'localhost' IDENTIFIED BY 'zhx123';
ERROR 1819 (HY000): Your password does not satisfy the current policy requirements
mysql> ■
```

注意: 结束要输入"; "

Policy	Tests Performed
0 or LOW	Length
1 or MEDIUM	Length; numeric, lowercase/uppercase, and special characters
2 or STRONG	Length; numeric, lowercase/uppercase, and special characters; dictionary file

MySQL完整的初始密码规则可以通过如下命令查看:

```
mysql> SHOW VARIABLES LIKE 'validate_password%';
```

密码的长度是由validate_password_length决定的,而validate_password_length的计算公式是:

validate_password_length = validate_password_number_count + validate_password_special_char_count + (2 *
validate_password_mixed_case_count)

初始情况下第一个的值是ON, validate_password_length是8。可以通过如下命令修改:

```
mysql> set global validate_password_policy=0;
mysql> set global validate_password_length=1;
```

设置之后密码就可以设置的很简单,例如1234之类的。到此数据库的密码设置就完成了。

但此时还有一个问题,就是因为安装了Yum Repository,以后每次yum操作都会自动更新,需要把这个卸载掉:

```
# yum -y remove mysql57-community-release-el7-10.noarch
```

此时才算真的完成了。尝试一下访问数据库吧!

4、访问数据库

5、设置开机自动启动

```
systemctl enable mysqld
systemctl daemon-reload
```

6、退出mysql

```
Mysql>exit
```

```
mysql> exit:
Bye
[root@localhost ~]#
```

7、数据库授权

数据库没有授权,只支持localhost本地访问

将所有数据库的所有表(.)的所有权限(all privileges),授予通过任何ip(%)访问的root用户,密码为123456。

```
mysql>grant all privileges on *.* to 'root'@'%' identified by 'Zhx123456!!';
//远程连接数据库的时候需要输入用户名和密码
//用户名: root
//密码:123456
//指点ip:%代表所有Ip,此处也可以输入Ip来指定Ip
```

```
mysql> grant all privileges on *.* to 'root'®'%' identified by 'Zhx123456!!':
Query OK, O rows affected, 1 warning (0.02 sec)
```

输入后使修改生效还需要下面的语句

```
mysql>flush privileges;
```

```
mysql> flush privileges:
Query OK, O rows affected (0.04 sec)
```

也可以通过修改表来实现远程:

```
mysql -u root -p ****
mysql> use mysql;
mysql> update user set host = '%' where user = 'root';
mysql> select host, user from user;
```