Ubuntu18.04下安装MySQL

- 一、查看当前有没有安装MySQL
- 1、执行以下命令,如果执行后什么都没有返回,则进入MySQL的安装步骤

```
1 | dpkg -1 | grep mysql
```

2、如果执行以上命令,显示如下,就证明MySQL已经安装完毕,直接使用MySQL即可

```
wangdao@wangdao:~$ dpkg -l | grep mysql
ii mysql-client
                                                     5.7.33-0ubuntu0.18.04.1
                                                                                                             all
                                                                                                                            MySOL database client (metapackag
ii mysql-client e depending on the latest version)
ii mysql-client-5.7
ii mysql-client-core-5.7
                                                     5.7.33-0ubuntu0.18.04.1
                                                                                                                             MySQL database client binaries
                                                                                                              amd64
                                                      5.7.33-0ubuntu0.18.04.1
                                                                                                              amd64
                                                                                                                             MySQL database core client binari
ii mysql-common
                                                     5.8+1.0.4
                                                                                                              all
                                                                                                                            MySQL database common files, e.g.
 /etc/mysql/my.cnf
ii mysql-server
e depending on the latest version)
                                                     5.7.33-0ubuntu0.18.04.1
                                                                                                              all
                                                                                                                             MySQL database server (metapackag
ii mysql-server-5.7
d system database setup
                                                     5.7.33-0uhuntu0.18.04.1
                                                                                                             amd64
                                                                                                                            MvSOL database server binaries an
  mysql-server-core-5.7
                                                     5.7.33-0ubuntu0.18.04.1
                                                                                                             amd64
                                                                                                                             MySQL database server binaries
```

二、安装MySQL

1、执行以下命令进行安装

```
1
#更新软件列表

2
$ sudo apt update

3
#安装MySQL

5
$ sudo apt install mysql-server mysql-client

6
#安装MySQL客户端依赖包,后面进行编程时候需要使用

8
$ sudo apt install libmysqlclient-dev
```

2、安装完成之后,输入下面命令进行查看

```
1 | netstat -tap | grep mysql
```

通过上述命令检查之后,如果看到有 mysql 的socket处于 LISTEN 状态则表示安装成功,如下:

三、配置MySQL

1、初始化配置

```
1 | sudo mysql_secure_installation
wangdao@wangdao:~$ sudo mysql_secure_installation
[sudo] password for wangdao:
Securing the MySQL server deployment.
输入密码,
Enter password for user root:
The 'validate_password' plugin 经配置过 所以直接输
The subsequent steps will run with the existing configuration
of the plugin.
Using existing password for root.
Estimated strength of the password: 25
Change the password for root ? ((Press y|Y for Yes, any other key for No) 因为配置过,
... skipping.
By default, a MySQL installation has an anonymous user,
allowing anyone to log into MySQL without having to have
a user account created for them. This is intended only for
testing, and to make the installation go a bit smoother.
You should remove them before moving into a production
environment.
Remove anonymous users? (Press y|Y for Yes, any other key for No) : Y
Success.
Remove anonymous users? (Press y|Y for Yes, any other key for No) : Y
Success.
Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.
Disallow root login remotely? (Press y|Y for Yes, any other key for No)
 ... skipping.
By default, MySQL comes with a database named 'test' that
anyone can access. This is also intended only for testing,
and should be removed before moving into a production
environment.
                                                根据需要选择即可
Remove test database and access to it? (Press y|Y for Yes, any other key for No)
 ... skipping.
Reloading the privilege tables will ensure that all changes
made so far will take effect immediately.
Reload privilege tables now? (Press y|Y for Yes, any other key for No) : Y
Success.
All done!
wangdao@wangdao:~$
```

2、检查MySQL的服务状态,输入如下命令:

```
1 $ systemctl status mysql.service
2 #或者使用如下命令(两者都可以查看当前MySQL的状态)
3 $ sudo service mysql status
```

四、登录MySQL

1、使用以下命令进行登录

```
mysql -u root -p

wangdac@wangdac:~$ mysql -u root -p
Enter password:
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 12
Server version: 5.7.33-@ubuntu@.18.@4.1 (Ubuntu)

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

mysql>
mysql>
```

这样就安装成功了,无需下面的操作。如果登录不进去,直接跳到"安装MySQL中常见问题""密码设置问题"继续执行即可。

ubuntu18.04安装MySQL异常问题

一、卸载MySQL

如果在安装MySQL过程中安装多次都失败了,可以选择先清除MySQL,方法步骤如下。

1、首先在系统终端中查看MySQL的依赖项,运行命令

```
1 | dpkg --list|grep mysql
```

2、卸载命令

```
1 | sudo apt-get remove mysql-common
```

3、卸载命令

```
1 | sudo apt-get autoremove --purge mysql-server-5.7
```

4、清除残留数据,运行命令

```
1 dpkg -1|grep ^rc|awk '{print$2}'|sudo xargs dpkg -P
```

5、再次查看MySQL的剩余依赖项,运行命令

```
1 | dpkg --list|grep mysql
```

6、继续删除剩余依赖项,如:

```
1 | sudo apt-get autoremove --purge mysql-apt-config
```

7、继续运行步骤1中的命令

```
1 | dpkg --list|grep mysql
```

直到执行该命令后什么都没有显示。

安装MySQL中常见问题

1、密码设置问题

密码设置一直不符合要求,其实就是密码设置简单了,稍微设置复杂点即可,或者修改密码设置等级与长度。

可能出现的就是这个报错

```
ERROR 1819 (HY000): Your password does not satisfy the current policy requirements
```

可以在mysql中进行如下修改:

1、输入一下这个命令,显示相关密码的信息

```
1 #执行查看命令
2 $ sudo cat /etc/mysql/debian.cnf
3
4 #得到如下信息
   $ sudo cat /etc/mysql/debian.cnf
6 | # Automatically generated for Debian scripts. DO NOT TOUCH!
7
   [client]
8 host = localhost
9 user = debian-sys-maint #这个是用户名
   password = NBygHAMyGHerjzGw #这个是密码
10
11 socket = /var/run/mysqld/mysqld.sock
12
   [mysql_upgrade]
13
   host = localhost
```

```
14 user = debian-sys-maint
15 password = NBygHAMyGHerjzGw
   socket = /var/run/mysqld/mysqld.sock
16
17
18
19 #用上面的用户名和命名登录MySQL数据库
20
   $ mysql -u debian-sys-maint -p
21
22 #输入命令后然后输入密码,对应上面的passwd,输入后进入MySQL命令行界面
23
   $ mysql -u debian-sys-maint -p
24 Enter password:
25
   Welcome to the MySQL monitor. Commands end with; or \g.
26
   Your MySQL connection id is 4
   Server version: 5.7.33-Oubuntu0.18.04.1 (Ubuntu)
27
28
29
   Copyright (c) 2000, 2021, Oracle and/or its affiliates.
30
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   affiliates. Other names may be trademarks of their respective
32
33
   owners.
34
35
   Type 'help;' or '\h' for help. Type '\c' to clear the current input
   statement.
36
37
   mysql> #这个标志表示已经成功进入mysql命令行界面
38
39 #然后在mysql命令行输入命令(以分号结尾)
40 | mysql> use mysql;
41
42
   mysql> SHOW VARIABLES LIKE 'validate_password%';
   +----+
43
44
   | Variable_name
                                   | Value |
   +-----
45
46 | validate_password_check_user_name | OFF
   | validate_password_dictionary_file |
47
48 | validate_password_length | 8
   49
50 | validate_password_number_count | 1
51 | validate_password_policy | MEDIUM |
52
   | validate_password_special_char_count | 1
53
   7 rows in set (0.08 sec)
54
55
56 mysql>
57
58 #然后设置密码策略为简单
59
   mysql> set global validate_password_policy=LOW;
60
   Query OK, 0 rows affected (0.00 sec)
61
   mysq1>
62
   #设置密码长度为4
63
   mysql> set global validate_password_length=4;
64
   Query OK, 0 rows affected (0.00 sec)
65
66
   mysql>
67
68 #然后在继续查看密码相关信息
69
   mysql> show variables like 'validate_password%';
```

```
71 | Variable_name
                                       | Value |
72
73
    | validate_password_check_user_name
                                       OFF
74
  | validate_password_dictionary_file
                                      75 | validate_password_length
                                      | 4
76 | validate_password_mixed_case_count | 1
                                     | 1
77
   | validate_password_number_count
78
   | validate_password_policy
                                       LOW
79
   | validate_password_special_char_count | 1
80
81
   7 rows in set (0.00 sec)
82
83
   mysq1>
84
   #接着输入如下命令(以分号结尾),有四个命令,相应的'你的命名'换成自己想设计的密码,
85
   mysql> update mysql.user set authentication_string=password('你的密码, 四位')
86
    where user='root' and Host ='localhost';
   mysql> update user set plugin="mysql_native_password";
87
88 | mysql> flush privileges;
89 mysql> quit;
```

2、使用远程登录的配置修改

1、进入配置文件修改相应配置,命令如下:

```
1 | sudo vim /etc/mysql/mysql.conf.d/mysqld.cnf
注释掉bind-address = 127.0.0.1,
 40 #
 41 # Instead of skip-networking the default is now to listen only on
 42 # localhost which is more compatible and is not less secure.
 43 #bind-address = 127.0.0.1
 44 #
 45 # * Fine Tuning
 46 #
 47 key_buffer_size
                     = 16M
 48 max allowed packet = 16M
 49 thread_stack
                   = 192K
 50 thread_cache_size
                         = 8
保存退出,然后进入mysql数据库,
```

```
1 mysql -u root -p
```

执行授权命令

```
1 #你的密码需要自己设置,不要直接复制
  mysql> grant all on *.* to root@'%' identified by '你的密码' with grant
  option;
3
  # 刷新权限
4
5
  mysql> flush privileges;
6
7
  #然后执行exit命令退出mysq1服务
  mysql> exit;
```

```
1 | systemctl restart mysql
```

3、MySQL常用命令

```
1 #查看MySQL的状态
2 $ sudo service mysql status
3 #MySQL的启动
5 $ sudo service mysql start
6 7 #MySQL的停止
8 $sudo service mysql stop
```

4、设置MySQL的自动补全功能

直接只用命令进入到配置文件,命令如下:

在下面加入一行auto-rehash,显示如下:

```
38 lc-messages-dir = /usr/share/mysql
39 skip-external-locking
40 #
41 # Instead of skip-networking the default is now to listen only on
42 # localhost which is more compatible and is not less secure.
43 #bind-address = 127.0.0.1
44 #
45 auto-rehash
46 # * Fine Tuning
47 #
48 key_buffer_size = 16M
```

然后保存退出

```
1 | w!sudo tee %
```

然后必须要重启MySQL,命令如下

```
1 | sudo service mysql start
```

这样在MySQL中就可以进行自动联想功能(类似Linux下的命令行一样,也是Tab键。注意:只能联想表和列的名字,并没有Linux下面的功能强大)。

5、在重启MySQL时候如果出现打不开,可以查看日志

1、查看系统日志

```
1 vim /var/log/syslog
2 #在里面搜索关键字mysql、error
```

2、查看MySQL自己的日志

```
1 vim /var/log/mysql/error.log
```