Linux安装mysql - ZC201695 - 博客园

一、下载

```
这里我创建了一目录software用于存放我们特会要下载的mysql包,先去到该目录
```

命令: cd /software

命令: wget http://mirrors.sohu.com/mysql/MySQL-5.7/mysql-5.7.17-linux-glibc2.5-x86 64.tar

下载完成后,你会在software这个目录下看到多出了空色框的文件

- 二、建立用户,以及mysql的目录
- 1、groupadd mysql #建立一个mysql的组
- 2、useradd -r -g mysql mysql #建立mysql用户, 并且把用户放到mysql组
- 3、passwd mysql #给mysql用户设置一个密码
- 三、解压mysql
- 1、把tar包移动到/usr/local 目录下

mv /software/mysql-5.7.17-linux-glibc2.5-x86_64.tar /usr/local

2、解压

cd /usr/local

tar xvf mysql-5.7.17-linux-glibc2.5-x86_64.tar.gz

```
[root@localhost local]# tar xvf mysql-5.7.17-linux-glibc2.5-x86_64.tar
mysql-5.7.17-linux-glibc2.5-x86_64.tar.gz
۸c
 [root@localhost local]# 11
总用量 1007872
drwxr-xr-x. 2 root root drwxr-xr-x. 2 root root
                                                                 6666666
666666
                                                                                 2014 bin
2014 etc
2014 game
2014 inc
                                                              66666
                                                                              9999
                                                                                           games
                                                                                            include
                                                                              9
                                                                                  2014
                                                              6
                                                                                 2014
                                                                                           lib64
                                                                                  2014 libexec
                                                                  6月
                                                                              9
                                                               6
                                                                            28 06:56 mysql-5.7.17-linux-glibc2.5-x86
 -rw-r--r--. 1 root root 683233280
                                                                  11月
 -rw-----. 1 root root 348825088 1月
                                                                              8 19:07 mysql-5.7.17-linux-glibc2.5-x86
     .tar.oz
drwxr-xr-x. 2 root root
drwxr-xr-x. 5 root root
drwxr-xr-x. 2 root root
[root@localhost local]#
                                                            6
46
                                                                 6月
1月
                                                                              929
                                                                                  2014 sbin
                                                                                 08:17 share
                                                               6
                                                                  6月
                                                                                  2014 src
```

tar zxvf mysql-5.7.17-linux-glibc2.5-x86_64.tar.gz

```
[root@localhost local]# 11
 总用量 1007872
drwxr-xr-x. 2 root root drwxr-xr-x. 4 root root drwxr-xr-x. 4
                                                      0000000
                                                         6月
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libexed
                                                                                                      这是我们要的目录
                                                          6
                                                     26
                                                          1月
                                                                       19:09 mysql-5.7.17-linux-glibc2.5-x86
drwxr-xr-x. 4 root root
-rw-r--r-. 1 root root 683233280 11月 28 06:56 mysql-5.7.17-linux-glibc2.5-x86
 -rw-----. 1 root root 348825088 1月
                                                                    8 19:07 mysql-5.7.17-linux-glibc2.5-x86
drwxr-xr-x. 2 root root
drwxr-xr-x. 5 root root
drwxr-xr-x. 2 root root
                                                                       2014
                                                                               sbin
                                                                       08:17
                                                                    29
                                                                                 share 这两个文件可以删了
                                                                       2014 src
drwxr-xr-x. 2 root root
[root@localhost local]#
```

【多出目录 mysql-5.7.17-linux-glibc2.5-x86 64】

注意: 没有data 目录, my.ini 在support-files 目录

3、改一下目录名字为/usr/local/mysql (linux下mysql的默认安装安装目录)

mv mysgl-5.7.17-linux-glibc2.5-x86 64 mysgl

```
-f mysql-5.7.17-linux-glibc2.5-x86_64.tar
-f mysql-5.7.17-linux-glibc2.5-x86_64.tar.gz
mysql-5.7.17-linux-glibc2.5-x86_64/ mysql
 [root@localhost local]# rm
 [root@localhost local]# rm
[root@localhost local]# mv
[root@localhost local]# ll
总用量 0
drwxr-xr-x. 2 root root
                                                 6月
6月
                                                                2014
2014
                                              6
                                                                         bin
                                                             999999
                                              6
                                                                         etc
                                                                2014
2014
                                              6
                                                 6月
                                              6
                                                                         include
                                                                2014
                                              6
drwxr-xr-x. 2 root root
                                              6
                                                 6月
                                                                2014
                                                                        lib64
drwxr-xr-x. 2 root root
                                                 6月
                                                                2014 libexec
                                              6
                                                                19:09 mysql
2014 sbin
                                                 1月
                                                             8
drwxr-xr-x. 4
                                            26
                        root root
                                                 6月
1月
drwxr-xr-x. 2
drwxr-xr-x. 5
                                              6
                                                            929
                         root root
                         root root 46
                                                                08:17 share
drwxr-xr-x. 2 root root
[root@localhost local]#
                                              6
                                                 6月
                                                                2014 src
```

- 四、配置相关的启动配置文件
- 1、复制my-default.cnf 到 /etc/my.cnf (mysqld启动时自动读取)
- cp my-default.cnf /etc/my.cnf
- 2、复制mysql.server 到/etc/init.d/目录下【目的想实现mysqld -install这样开机自动执行效果】

【/etc/init.d/ 目录,等效于注册表HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\services 记录有那些服务】

cp mysql.server /etc/init.d/mysql (mysql是服务名)

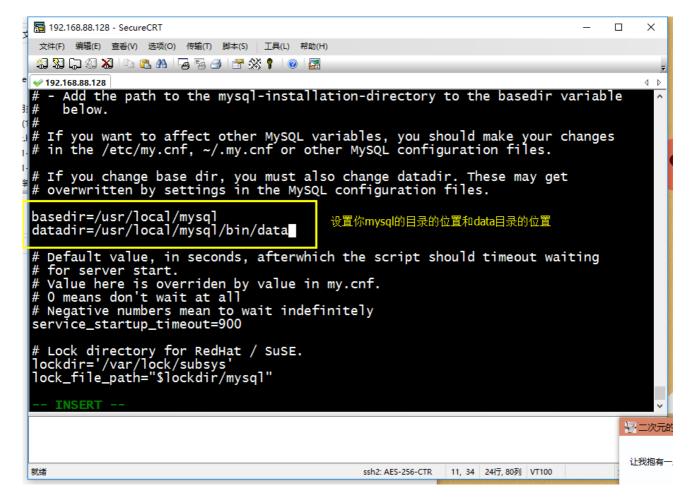
3、修改 /etc/init.d/mysql 参数

vi /etc/init.d/mysql

给与2个目录位置

basedir=/usr/local/mysql

datadir=/usr/local/mysql/data



4、给目录/usr/local/mysql 更改拥有者

chown -R mysql:mysql /usr/local/mysql/

```
[root@localhost local]#<mark>|chown -R mysql:mysql/usr/local/mysql/</mark>
[root@localhost local]# ]]
                                                   更改访问权限
总用量 4
                                                        2014 bin
2014 etc
2014 games
2014 inclu
                  2 root
2 root
2 root
2 root
                                            6
                                                      99999999
drwxr-xr-x.
                             root
                                          6666
drwxr-xr-x.
                             root
drwxr-xr-x.
                             root
drwxr-xr-x.
                                                               include
                             root
                                                               lib
lib64
                                                        2014
drwxr-xr-x.
                     root
                             root
                                                        2014 lib64
2014 libexec
                                          6
drwxr-xr-x.
                     root
                             root
                                          6
drwxr-xr-x.
                     root
                             root
                                                        00:36 mysql
2014 sbin
                    mysql mysql 4096
drwxr-xr-x. 10
                                                      9
                                          6
drwxr-xr-x.
                     root
                             root
                                                        08:17 share
                                         46
drwxr-xr-x.
                     root
                             root
drwxr-xr-x. 2 root ro [root@localhost local]#
                                                        2014 src
                                          6
                             root
```

5、解决一下乱码问题

vi /etc/my.cnf

[mysql]

default-character-set=utf8

[mysqld]

default-storage-engine-INNODB

character_set_server=utf8

```
basn: /etc: 是一个目录
[root@localh<mark>ost larry]# cd /etc</mark>
[root@localh<mark>ost etc]# vi my.cnf</mark>
                                                                     编辑文件命令
   For advice on how to change settings please see http://dev.mysql.com/doc/refman/5.7/en/server-configuration-defaults.html *** DO NOT EDIT THIS FILE. It's a template which will be copied to the *** default location during install, and will be replaced if you *** upgrade to a newer version of MySQL.
 [mysql]
default-character-set=utf8
 [mysqld]
default-storage-engine=INNODB
                                                              添加这两段话
 character_set_server=utf8
# Remove leading # and
五、初始化 mysql 的数据库
mysql install db (老版本的做法)
新版本:
1.初始化
bin/mysqld --initialize --user=mysql --basedir=/usr/local/mysql --datadir=/usr/local/mysql/data
生成出一个data目录,代表数据库已经初始化成功
并且mysql的root用户生成一个临时密码: 5!uipdk>qmg?
[root@localhost mysql]# ll
[root@localhost mysql]# ll
总用量 44
drwxr-xr-x. 2 mysql mysql
2.给数据库加密
bin/mysql_ssl_rsa_setup --datadir=/usr/local/mysql/data
[root@localhost mysql]# bin/mysql_ssl_rsa_setup --datadir=/usr/local/mysql/data
Generating a 2048 bit RSA private key 给数据加密
writing new private key to 'ca-key.pem'
Generating a 2048 bit RSA private key
 .....+++
Generating a 2048 bit RSA private key
 . . . . . . . . . . +++
writing new private key to 'client-key.pem'
 [root@localhost mysql]#
3.启动mvsal
bin/mysqld_safe --user=mysql &
 [root@localhost mysql]#<mark>|</mark>bin/mysqld_safe --user=mysql &<mark>| 启动mysql服务</mark>
[2] 5878
[root@localhost mysql]# 2017-01-09T07:18:46.103763Z mysqld_safe Logging to './data/localhost.localdoma Logging to './data/localhost.localdomain.err'. 2017-01-09T07:18:46.190717Z mysqld_safe Starting mysqld daemon with databases from ./data 2017-01-09T07:18:46.675971Z mysqld_safe mysqld from pid file ./data/localhost.localdomain.pid ended
```

```
1.登录 /mysql -uroot -p
如果报错信息为:
[root@localhost bin]#
[root@localhost bin]# ./mysql -uroot -p
Enter password:
ERROR 2002 (HY000): Can't connect to local
MySQL server through socket '/tmp/mysql.sock' (2)
[root@localhost bin]# ps -ef|grep mysql
root 4778 3839 0 00:33 pts/1 00:00:00 grep --color=auto mysql

解决方法: 删除了 /tmp/mysql.sock.lock文件
命令: rm -f /tmp/mysql.sock.lock
[root@localhost bin]# more /tmp/mysql.sock.lock
3441
[root@localhost bin]# rm -f /tmp/mysql.sock.lock
[root@localhost bin]# ./mysqld_safe --user=mysql &
```

2.修改密码

```
set password=password('123456');
[root@localhost bin]# ./mysql_-uroot_-p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \gamma g. Your MySQL connection id is 3
Server version: 5.7.17
Copyright (c) 2000, 2016, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql><u>^C</u>
mysql> set password=password('123456')
Query OK, 0 rows affected, 1 warning (0.00 sec)
mysql> exit
Bye
[root@localhost bin]# ./mysql -uroot -p123456
mysql: [Warning] Using a password on the command line interface can be insecure. Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 4
Server version: 5.7.17 MySQL Community Server (GPL)
```

七、远程访问 (即你用Windows系统能访问Linux系统的mysql)

我们先看看数据结构:

```
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 6
Server version: 5.7.17 MySQL Community Server (GPL)
Copyright (c) 2000, 2016, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql><mark>use mysql</mark>
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
mysql> select Host,User from user;
                                                         查询主机和用户
                     User
  Host
   localhost
localhost
                    mysql.sys
                                               现在只有本机能使用
                     root
  rows in set (0.00 sec)
mysql>
现在我们的Windows系统是无法访问到虚拟机下的Linux系统的mysql的,因为没有权限
```

grant all privileges on *.* to root@'%' identified by '123456';

select host,user from user; 【多出1条远程登录用户记录】

flush privileges;

```
Database changed
mysql> select Host,User from user;
  Host
               User
  localhost
localhost
                mysql.sys
                root
2 rows in set (0.00 sec)
mysql> grant all privileges on *.* to root@'%' identified by '123456';
Query OK, O rows affected, 1 warning (O OO sec)
mysql> select Host,User from user;
                User
  Host
                                        %代表任意主机都可以访问
  %
                root
  ιοcaιnosτ
                mysq1.sys
  localhost
                root
 rows in set (0.00 sec)
mysql>
```

现在用Windows系统访问我Linux系统的mysql,你会发现依然是不能访问,那是因为防火墙没有关 命令: mysql -h (你Linux系统的ip地址) -uroot -p123456

```
C:\WINDOWS\system32\cmd.exe
                                                                                                                                  rosoft Windows [版本 10.0.14393]
2016 Microsoft Corporation。保留所有权利。
                                                                            访问虚拟机上面的mysql
  :\Users\Administrator\mysq1 -p192.168.89.128 -uroot -p123456
 arning: Using a password on the command line interface can be insecure.
RROR 2003 (HY000): Can't connect to MySQL server on 'localhost' (10061)
                                                                                             报错信息 由于防火墙没有关
  :\Users\Administrator>_
 搜狗拼音输入法 全
2、关闭防火墙或者给防火墙开放端口
systemctl stop firewalld.service
成功访问后的效果图如下:
```

C:\Users\Administrator<mark>></mark>mysq1 -h192.168.88.128 -uroot -p123456 Warning: Using a passw Welcome to the MySQL monitor. Commands end with ; or \g. Server version: 5.7.17 MySQL Community Server (GPL) Copyright (c) 2000, 2014, Oracle and/or its affiliates. All rights reserved. Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective Type 'help;' or '\h' for help. Type '\c' to clear the current input statement. mysq1>

八、设置开机自动启动

1、添加服务mysql

chkconfig --add mysql [mysqld -install]

2、设置mysql服务为自动

chkconfig mysql on

```
[root@localhost etc]# chkconfig --add mysql chkconfig mysql on [root@localhost etc]#
```

3、重启检查

ps -ef|grep mysql

九、设置path

vi /etc/profile

export PATH=\$JAVA HOME/bin:/usr/local/mysql/bin:\$PATH

```
done
export LANG=zh_CN.UTF-8
export JAVA_HOME=/software/jdk1.8.0_111
export _CLASSPATH=.:$JAVA_HOME/]ib/tools.jar:$JAVA_HOME/]ib/dt.jar:$JAVA_HOME/jre/lib/rt.jar
export PATH=$JAVA_HOME/bin:/usr/local/mysql/bin:$PATH
unset 1
unset -f pathmunge
"profile" 79L, 1959C written
[root@localhost etc]#
                                                                                            设置环境变量
```