

数据库搭建完整性

- (1) 使用 xshell 连接 Linux 服务器（我的云服务器的操作系统是 CentOS6），在根目录下输入 “yum -y install mysql mysql-server mysql-devel” 安装 MySQL。

```
[root@ecs-3616 /]# yum -y install mysql mysql-server mysql-devel
Loaded plugins: fastestmirror, security
Setting up Install Process
Loading mirror speeds from cached hostfile
* base: mirrors.huaweicloud.com
* epel: mirrors.huaweicloud.com
* extras: mirrors.huaweicloud.com

Installed:
mysql.x86_64 0:5.1.73-8.el6_8          mysql-devel.x86_64 0:5.1.73-8.el6_8
mysql-server.x86_64 0:5.1.73-8.el6_8

Dependency Installed:
perl-DBD-MySQL.x86_64 0:4.013-3.el6    perl-DBI.x86_64 0:1.609-4.el6

Complete!
```

安装命令

表示安装成功

- (2) 检查是否生成了 mysql 服务，并设置随机启动。使用 “chkconfig --list |grep mysql” 检查服务，使用 “chkconfig mysqld on” 开启随机启动服务。

```
[root@ecs-3616 /]# chkconfig --list |grep mysql
mysqld 0:off 1:off 2:off 3:off 4:off 5:off 6:off
[root@ecs-3616 /]# chkconfig mysqld on
[root@ecs-3616 /]# chkconfig --list |grep mysql
mysqld 0:off 1:off 2:on 3:on 4:on 5:on 6:off
[root@ecs-3616 /]# service mysqld start
Initializing MySQL database: Installing MySQL system tables...
OK
```

该命令用来检查是否生成了 mysql 服务，及服务是否启动

off:关闭, on启动, 现在需要启动它们。

- (3) 启动 MySQL，输入 “service mysqld start”

```
[root@ecs-3616 /]# service mysqld start
Initializing MySQL database: Installing MySQL system tables...
OK
Filling help tables...
OK
```

启动mysql

- (4) 查看 mysql 进程，输入 “ps -ef |grep mysql|grep -v grep”

```
Starting mysqld: [ OK ]
[root@ecs-3616 /]# ps -ef |grep mysql|grep -v grep
root      32574      1  0 10:07 pts/2    00:00:00 /bin/sh /usr/bin/mysqld_safe --datadir=/var/lib/mysql
--socket=/var/lib/mysql/mysql.sock --pid-file=/var/run/mysqld/mysqld.pid --basedir=/usr --user=mysql
mysql     32676 32574  0 10:07 pts/2    00:00:00 /usr/libexec/mysqld --basedir=/usr --datadir=/var/lib
/mysql --user=mysql --log-error=/var/log/mysqld.log --pid-file=/var/run/mysqld/mysqld.pid --socket=/v
ar/lib/mysql/mysql.sock
```

从上图可以知道，启动已经成功，进程已存在。从进程信息可以看到，mysql 的数据库 data 目录是 /var/lib/mysql，错误日志文件是 /var/log/mysqld.log，及其他一些信息。

(5) 进入 MySQL 的数据库目录，查看默认数据库

```
[root@ecs-3616 /]# cd /var/lib/mysql/
[root@ecs-3616 mysql]# ls -l
total 20488
-rw-rw---- 1 mysql mysql 10485760 Feb 25 10:07 ibdata1
-rw-rw---- 1 mysql mysql 5242880 Feb 25 10:07 ib_logfile0
-rw-rw---- 1 mysql mysql 5242880 Feb 25 10:07 ib_logfile1
drwx----- 2 mysql mysql 4096 Feb 25 10:07 mysql
srwxrwxrwx 1 mysql mysql 0 Feb 25 10:07 mysql.sock
drwx----- 2 mysql mysql 4096 Feb 25 10:07 test
[root@ecs-3616 mysql]# netstat -nltlp | grep mysql
```

进入数据库目录

默认数据库

查看端口占用，默认为3306

(6) 修改管理员密码

```
[root@ecs-3616 mysql]# /usr/bin/mysqladmin -u root password 'root'
[root@ecs-3616 mysql]# mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 5
Server version: 5.1.73 Source distribution
Copyright (c) 2000, 2013, 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.
```

修改管理员密码，密码随意，我设置为root。

登录mysql，并且输入密码

(7) 创建数据库，并且导入 sql 文件

```
mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mysql |
| test |
+-----+
3 rows in set (0.00 sec)

mysql> create database canteen_ordering;
Query OK, 1 row affected (0.00 sec)

mysql> show databases;
+-----+
| Database |
+-----+
| information_schema |
| canteen_ordering |
| mysql |
| test |
+-----+
4 rows in set (0.00 sec)

mysql> use canteen_ordering;
Database changed
mysql> source /root/canteen_ordering;
ERROR:
Failed to open file '/root/canteen_ordering', error: 2
mysql> source /root/canteen_ordering.sql;
Query OK, 0 rows affected (0.00 sec)
Query OK, 0 rows affected, 1 warning (0.00 sec)
```

查询数据库

创建数据库：create database 数据库名字

指明使用这个数据库

导入sql文件，该文件通过xftp上传到了root目录下了。

(8) 查看生成的数据库表

```
mysql> show tables;  
+-----+  
| Tables_in_canteen_ordering |  
+-----+  
| co_menu                    |  
| co_menu_item              |  
| co_user                   |  
| co_user_menu              |  
+-----+
```

(9) 其他命令。

<1>停止服务：service mysqld stop

<2>重启服务：service mysqld srestart