# Mysql 多实例安装

## 1.安装 Mysql 依赖包

```
[root@localhost ~]# yum install ncurses-devel libaio-devel -y
Loaded plugins: fastestmirror
Setting up Install Process
Loading mirror speeds from cached hostfile
 * base: mirrors.163.com
 * epel: mirrors.neusoft.edu.cn
 * extras: mirrors.tuna.tsinghua.edu.cn
 * updates: mirrors.aliyun.com
Resolving Dependencies
--> Running transaction check
---> Package libaio-devel.x86_64 0:0.3.107-10.el6 will be installed
---> Package ncurses-devel.x86_64 0:5.7-4.20090207.el6 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

================================================================================
 Package            Arch         Version               Repository       Size
================================================================================
Installing:
 libaio-devel       x86_64       0.3.107-10.el6        base             13 k
 ncurses-devel      x86_64       5.7-4.20090207.el6    base            641 k
```

## 2.安装 mysql-5.6.31-linux-glibc2.5-x86_64.tar

### 2.1 解压安装 mysql

[root@localhost ~]# tar zxvf mysql-5.6.31-linux-glibc2.5-x86_64.tar.gz

[root@localhost ~]# mv mysql-5.6.31-linux-glibc2.5-x86_64 /usr/local/mysql-5.6.31 #msyql 默认安装路径在/usr/local/mysql

[root@localhost ~]# ln -s /usr/local/mysql-5.6.31/ /usr/local/mysql #进行软连接方便后续知道以前安装版本号

### 2.2 分别建立/data/3306/data 和/data/3307/data 作为两个多实例的 data 数据库文件夹，并且 3306 和 3307 分别代表各自的端口号

[root@localhost ~]# mkdir -p /data/3306/data

[root@localhost ~]# mkdir -p /data/3307/data

### 2.3 mysql 数据库初始化

[root@localhost ~]# cd /usr/local/mysql/scripts/

[root@localhost scripts]# useradd mysql -s /sbin/nologin -M

[root@localhost scripts]# ./mysql_install_db --user=mysql --basedir=/usr/local/mysql --datadir=/data/3306/data/

[root@localhost scripts]# ./mysql_install_db --user=mysql --basedir=/usr/local/mysql --datadir=/data/3307/data/

### 2.4 分别将 mysql 的默认配置文件 copy 到/data/3306 和/data/3307 目录下

[root@localhost ~]# cp /usr/local/mysql/my.cnf /data/3306/

[root@localhost ~]# cp /usr/local/mysql/my.cnf /data/3307/

## 2.5 分别修改修改各自的 my.cnf 文件

[root@localhost ~]# vim /data/3306/my.cnf

```
# For advice on how to change settings please see
# http://dev.mysql.com/doc/refman/5.6/en/server-configuration-defaults.html

[mysqld]

# Remove leading # and set to the amount of RAM for the most important data
# cache in MySQL. Start at 70% of total RAM for dedicated server, else 10%.
# innodb_buffer_pool_size = 128M

# Remove leading # to turn on a very important data integrity option: logging
# changes to the binary log between backups.
# log_bin

# These are commonly set, remove the # and set as required.
# basedir = .....修改为 basedir=/usr/local/mysql
# datadir = .....修改为 datadir=/data/3306/data
# port = .....修改为 port=3306
# server_id = .....修改为 server_id=1
# socket = .....修改为 socket=/data/3306/mysql.sock

# Remove leading # to set options mainly useful for reporting servers.
# The server defaults are faster for transactions and fast SELECTs.
# Adjust sizes as needed, experiment to find the optimal values.
# join_buffer_size = 128M
# sort_buffer_size = 2M
# read_rnd_buffer_size = 2M

sql_mode=NO_ENGINE_SUBSTITUTION,STRICT_TRANS_TABLES
```
同理修改/data/3307/my.cnf 文件

## 2.6 启动 mysql 服务

[root@localhost ~]# chown -R mysql:mysql /data/3306
[root@localhost ~]# chown -R mysql:mysql /data/3307
[root@localhost ~]# /usr/local/mysql/bin/mysqld_safe --defaults-file=/data/3306/my.cnf &
[root@localhost ~]# /usr/local/mysql/bin/mysqld_safe --defaults-file=/data/3307/my.cnf &
**--defaul-fule 制定默认的配置文件，不加此选项默认/etc/my.cnf**
**&：表示后台进程**

## 2.7 修改 mysql 默认密码

[root@localhost ~]# mysqladmin -uroot password -S /data/3306/mysql.sock
[root@localhost ~]# mysqladmin -uroot password -S /data/3306/mysql.sock
-S：制定启动 sock 文件，默认为/tmp/mysql.sock

```
[root@localhost ~]# mysql -uroot -p -S /data/3306/mysql.sock
Enter password:
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)
[root@localhost ~]# mysql -uroot -p -S /data/3306/mysql.sock
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 5
Server version: 5.6.31 MySQL Community Server (GPL)

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owners.

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

mysql> show databases
    -> ;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| test               |
+--------------------+
4 rows in set (0.16 sec)

mysql>
```
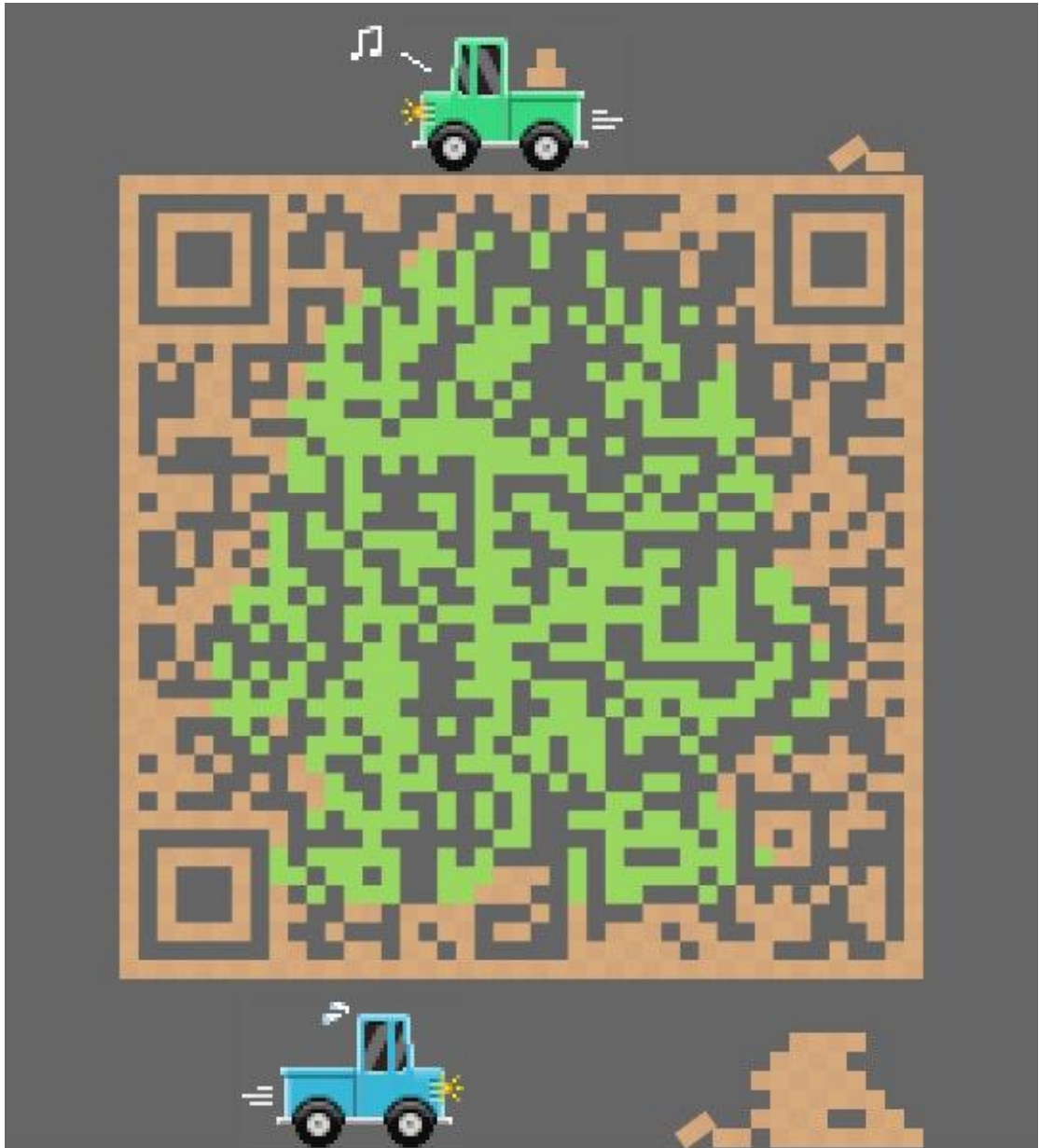
**素白流殇**

扫一扫二维码，加我QQ。