



链滴

# MySQL 多实例二进制部署 SHELL 脚本

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原文链接: <https://ld246.com/article/1611999942124>

来源网站: [链滴](#)

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```

#!/bin/bash
#
#*****
#Author:zhangzhuo
#QQ: 1191400158
#Date: 2021-01-30
#FileName: mysql5.7-8.0_install_multi.sh
#URL: https://www.zhangzhuo.ltd
#Description: The test script
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#*****
./etc/init.d/functions

DIR=`pwd`
#URL可修改可写包下载地址http或者https, 或者包名称, 写包名称在哪执行脚本放在那
URL=https://repo.huaweicloud.com/mysql/Downloads/MySQL-5.7/mysql-5.7.31-linux-glibc2.
2-x86_64.tar.gz
NAME=`echo $URL | grep -Eo '[^/]+$`
DIRNAME=`echo $NAME | sed -rn 's/(.*)tar.*\1/p`
#主数据库安装位置, 可修改
DATA_DIR=/data/mysql
#多实例创建几个实例, 可修改
NUM=5
NUM=${3305+${NUM}}
FULL_NAME=${DIR}/${NAME}
#数据库root密码, 可修改
PASSWORD=123456

install_mysql_wget(){
rpm -q wget &>/dev/null || yum install -y wget
yum install -y -q libaio perl-Data-Dumper autoconf
if [ -f ${FULL_NAME} ];then
    action "安装文件已经存在不需要下载"
else
    action "安装文件不存在开始下载" false
    wget $URL || { action "下载失败, 异常退出" false;exit 10; }
fi
}

install_mysql_user(){
if id mysql &>/dev/null;then
    action "MYSQL用户已经存在, 无需从新创建! "
else
    useradd -r -s /sbin/nologin mysql
    action "mysql用户创建成功"
fi
}

install_mysql_datadir(){
for i in `seq 3306 $NUM`;do
    if [ -d ${DATA_DIR}/${i} ];then

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        action "${DATA_DIR}/${i}目录已经存在, 无需从新创建! "
        chown mysql: ${DATA_DIR}/${i}
    else
        mkdir -p ${DATA_DIR}/${i}
        action "${DATA_DIR}/${i}目录创建完毕! "
        chown mysql: ${DATA_DIR}/${i}
    fi
done
}

install_mysql_my(){
cat <<EOF >/etc/my.cnf
[mysqld_multi]
mysqld=/usr/local/mysql/bin/mysqld_safe
mysqladmin=/usr/local/mysql/bin/mysqladmin
EOF
for i in `seq 3306 $NUM`;do
cat <<EOF >>/etc/my.cnf
[mysqld$i]
datadir=${DATA_DIR}/${i}
port=$i
socket=${DATA_DIR}/${i}/mysql${i}.sock
pid-file=${DATA_DIR}/${i}/mysql${i}.pid
log-error=${DATA_DIR}/${i}/mysql${i}.log
EOF
done
action "配置文件配置完成"
}

install_mysql_enable(){
cat <<EOF >>/etc/rc.d/rc.local
./etc/profile.d/mysql.sh
mysqld_multi start 3306-$NUM
EOF
chmod +x /etc/rc.d/rc.local
action "mysql开机启动设置完毕! "
}

install_mysql_multi(){
if [ -e /usr/local/mysql ];then
    action "mysql已经安装,无法安装" false
    exit
else
    tar -xf $FULL_NAME -C /usr/local
    cd /usr/local/
    ln -s $DIRNAME mysql
    chown -R mysql: /usr/local/mysql/
    echo "PATH=/usr/local/mysql/bin: '$PATH' >/etc/profile.d/mysql.sh
    source /etc/profile.d/mysql.sh

    for i in `seq 3306 $NUM`;do
        mysqld --initialize-insecure --user=mysql --datadir=${DATA_DIR}/${i} &>/dev/null
        action "$i数据库原始数据文件生成完毕"
    done

```

```
install_mysql_my

mysqld_multi start 3306-$NUM
action "正在启动...等待20秒";sleep 20
for i in `seq 3306 $NUM`;do
mysqladmin -S ${DATA_DIR}/${i}/mysql${i}.sock ping >/dev/null
  if [ $? = 0 ];then
    action "$i数据库启动成功"
    mysqladmin -S ${DATA_DIR}/${i}/mysql${i}.sock password $PASSWORD &>/dev/null
    if [ $? = 0 ];then
      action "$i数据库root密码修改成功"
    else
      action "$i数据库root密码修改失败" false
    fi
  else
    action "$i数据库启动失败" false
  fi
done
fi
}
```

```
install_mysql_wget
install_mysql_user
install_mysql_datadir
install_mysql_multi
install_mysql_enable
```

#### 使用方法:

- 适用于mysql5.7及以上版本，以下版本切勿使用
- 适用于centos7，8系统centos6没有测试过
- 任何方式安装过mysql主机请勿使用