mysql主从搭建

1. 目标

- 主从复制
- 故障切换

2. 基础环境

- OS: CentOS Linux release 7.3.1611
- Cpu: 4C Intel(R) Xeon(R) CPU E5-2680 v4 @ 2.40GHz
- Mem: 16G
- mysql version: mysql57-community-release-el7-11.noarch
- 服务器IP: 192.168.101.54(master), 192.168.101.55(slave)

3. 安装服务器

3.1 下载mysql源:

在MySQL官网中下载YUM源rpm安装包: http://dev.mysql.com/downloads/repo/yum/; #下载源:

[root@localhost ~]# yum localinstall mysql57-community-release-el7-8.noarch.rpm

#检查mysql源是否安装成功

[root@localhost ~]# yum repolist enabled | grep "mysql.-community."

```
mysql-connectors-community/x86_64 MysQL Connectors Community 36 mysql-tools-community/x86_64 MysQL Tools Community 47 mysql57-community/x86_64 MysQL 5.7 Community Server 187
```

上图所示则安装成功。

3.2 安装mysql

[root@localhost ~]# yum install mysql-community-server

3.3 启动mysql服务

#3.3.1.修改my.cnf:

- 修改datadir=/var/lib/mysql为datadir=/data/mysql
- 配置默认编码为utf8

[mysqld]

charactersetserver=utf8

init connect='SET NAMES utf8'

#3.3.2.启动mysql服务:

[root@localhost ~]# systemctl start mysqld

#3.3.3.查看mysql的启动状态

[root@localhost ~]# systemctl status mysqld

#3.3.4.设置开机启动

[root@localhost ~]# systemctl enable mysqld

[root@localhost ~]# systemctl daemon-reload

3.3.5.修改root密码 # 查看初始密码:

[root@localhost ~]# grep 'temporary password' /var/log/mysqld.log # 使用初始密码登录: [root@localhost ~]# mysql -uroot -p # 修改密码: mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY 'a3mfd4AA<AA';

注意: mysql5.7默认安装了密码安全检查插件(validate password),默认密码检查策略要求密码必须包含:大小写字母、数字和特殊符号,并且长

分别在192.168.101.54/55按照以上步骤安装即可。

4. 主从复制配置

4.1 修改主服务器54的my.cnf

```
[mysqld]
log-bin=mysql-bin //[必须]启用二进制日志
server-id=54 //[必须]服务器唯一ID,默认是1,一般取IP最后一段
```

4.2 修改从服务器55的my.cnf

```
[mysqld]
log-bin=mysql-bin //[必须]启用二进制日志
server-id=55 //[必须]服务器唯一ID,默认是1,一般取IP最后一段
```

4.3 重启两台服务器

[root@localhost ~]# systemctl restart mysqld

4.4 在主服务器上建立帐户并授权slave

[root@localhost ~]# mysql -uroot -pdfdaf3ereWW mysql> GRANT REPLICATION SLAVE ON . to 'hsdcd'@'192.168.101.54' identified by 'fddDDdfd@#\$#';

4.5 配置从服务器slave

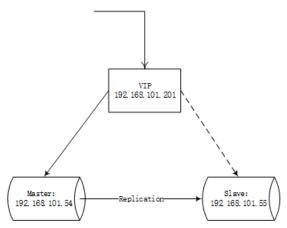
mysql>change master to master*host='192.168.101.54'*, *master*user='hsdcd', master*password='cd2017@HSD'*, *masterlogfile='mysql-bin.000001'*, *master*log_pos=451; //注意不要断开,451数字前后无单引号。

mysql>start slave; // 启动从服务器复制功能

4.6 检查从服务器复制功能状态

5. keepalived配置(故障切换)

5.1 拓扑图



客户端通过vip来访问,后端mysql服务器对客户端透明。

5.2 修改keepalived配置文件

修改54上的/etc/keepalived/keepalived.conf文件

修改55上的/etc/keepalived/keepalived.conf文件

其中54的优先级: priority 90,55的优先级: priority 100

5.3 客户端连接vip

mysql -uroot -h192.168.101.201 -p