centos 7下配置MySQL主从复制(Master-Slave)记录

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Mysql作为目前世界上使用最广泛的免费数据库,在实际的生产环境中,由单台 Mysql作为独立的数据库是完全不能满足实际需求的,无论是在安全性,高可用 性以及高并发等各个方面;

一、MySQL的安装与配置

具体的安装过程,参

考 http://blog.csdn.net/liulihui1988/article/details/78050671

二、MySQL主从复制

场景描述:

主数据库服务器: centos-node6, 从数据库服务器: centos-node7, 均已安装MySQL, 并且无应用数据。

2.1 Master主数据库上进行配置,修改配置文件/etc/my.cnf,添加如下配置vim /etc/my.cnf

设置: log-bin=mysql-bin #用yum安装的mysql数据库/etc/my.cnf文件只是满足基本要求,mysql主从时,查看master日志时没有数据显示,因此在/etc/my.cnf文件中添加一行 log-bin=mysql-bin

设置: server-id = 1 #此值不能和从数据库的一样,

设置: binlog-ignore-db=mysql #表示哪些库不同步,每个不同步的库写一行



```
rwxr-xr-x. 1 mysql m
[root@centos-node6 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 MvSOL connection id is 4
Server version: 5.7.17-log 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
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> show master status;
                   | Position | Binlog_Do_DB | Binlog_Ignore_DB | Executed_Gtid_Set
                         154 |
 mysgl-bin.000003 |
                                             mvsal
 row in set (0.01 sec)
mysql>
```

记录File的mysql-bin.000003 与 Position的154, 等会要用到。

分配一个数据库账号给Slave从数据库 Server,是从服务器能够访问Master数据库;

mysql> grant replication slave on *.* to 'slave'@'centos-node7' identified by '123456'

查询mysql 数据库中的user表,查看已分配的用户权限;select * from user;

```
mysql> select * from user;
                          | Select_priv | Insert_priv | Update_priv | Delete_priv | Create_priv | Drop_pri
ex_priv | Alter_priv | Show_db_priv | Super_priv | Create_tmp_table_priv | Lock_tables_priv | Execute_priv
| Alter_routine_priv | Create_user_priv | Event_priv | Trigger_priv | Create_tablespace_priv | ssl_type | s
r_connections | plugin
                                       | authentication_string
                                                                                     password_expired | pas
 localhost
              root
                                                                     l Y
                                                                                   l Y
                                                                                             ΙΥ
                                        | Y
                                                     | Y
                                                                    | Y
              | mysql_native_password | *6BB4837EB74329105EE4568DDA7DC67ED2CA2AD9
                                                                                                       | 201
 localhost
              | mysql.sys | N
                                         l N
                                                       l N
                                                                     l N
                    l N
                                                                                             | N
 N
                                        N
                                                     I N
                                                                    l N
                     l N
            0 | mysql_native_password | *THISISNOTAVALIDPASSWORDTHATCANBEUSEDHERE | N
                                                                                                       201
                                                       ΙY
                                                                                   ΙY
                                                                                             | Y
                                        | Y
                                                     l Y
                                                                    ΙY
                mysql_native_password |
                                         *6BB4837EB74329105EE4568DDA7DC67ED2CA2AD9
                                                                     | Y
 centos-node7 | slave
                                         | Y
                                                       ΙY
                                                                                   ΙY
                                                                                             | Y
                                                                                                       201
            0 | mysql_native_password | *6BB4837EB74329105EE4568DDA7DC67ED2CA2AD9 | N
 centos-node5 | amoeba
                                                                     ΙY
                     | Y
                                                                                             | Y
                     ΙY
                                        ΙY
                                                     ΙY
                                                                    ΙY
            0 | mysql_native_password | *6BB4837EB74329105EE4568DDA7DC67ED2CA2AD9 | N
```

2.2 从服务器Slave server数据库配置, 修改配置文件/etc/my.cnf, 添加如下配置

vim /etc/my.cnf

设置: server-id=2 此值不能和主数据库的一样, 唯一

设置: replicate-do-db = test #可以指定要复制的库

设置: replicate-ignore-db = mysql #忽略的库



配置完成重新启动Slave数据库;

systemctl restart mysql

进入Master数据库安装目录 /usr/local/mysql/bin/ # cd_usr/local/mysql/bin/

执行以下命令登陆本地数据库:

mysql -uroot -p123456

• 执行同步SQL语句

mysql> CHANGE MASTER TO

- -> Master Host=centos-node6,
 - -> Master User=slave,
 - -> Master Password=123456,
 - -> Master Port=3306,

- -> Master Log File=mysql-bin.0000003,
- -> Master_Log_File=154;

启动Slave同步进程:

mysql> start slave;

主从同步检查:

mysql> show slave status\G

```
№ 1 centos-node5 © 2 centos-node6 © 3 centos-node7 © 4 centos-node8 © 5 centos-node7
mysql> mysql> show slave status\G
RROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for
ysql> show slave status\G
 Slave_IO_State: Waiting for master to send event
                 Master_Host: centos-node6
                 Master_User: slave
               Master_Port: 3306
Connect_Retry: 60
         Master_Log_File: mysql-bin.000003
Read_Master_Log_Pos: 154
               Relay_Log_File: centos-node7-relay-bin.000006
               Relay_Log_Pos: 367
       Relay_Master_Log_File: mysql-bin.000003_
Slave_IO_Running: Yes
           Slave_SQL_Running: Yes
              Replicate_Do_DB: test
         Replicate_Ignore_DB: mysql
          Replicate_Do_Table:
      Replicate_Ignore_Table:
 Replicate_Wild_Do_Table:
Replicate_Wild_Ignore_Table:
                   Last_Errno: 0
                  Last_Error:
                 Skip_Counter: 0
         Exec_Master_Log_Pos: 154
             Relay_Log_Space: 794
Until_Condition: None
              Until_Log_File:
```

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如果Slave_IO_Running 与 Slave_SQL_Running 的值都必须为YES,表明成功了;

三、验证主从复制效果

在Master服务器test数据库上创建一个表t_class;是否在Slave从服务器test数据库中自动创建t_class;

3.1 Master主服务器test数据库中执行以下命令;

mysql> create table t_class(id int ,name varchar(16))

3.2 查询Slave服务器中的test数据库中是否有t_class表; 结果肯定是有的咯,本文来自网络帖子:

http://blog.csdn.net/ljuncong/article/details/38925569

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: http://heylinux.com/archives/1004.html 仅供个人学习笔记为主;