```
# File name : Heartbeat+Mon Mysql Master-Slave 成功配置.txt
# Description :
 Requirement:
 Copyright (C), fkoo, 2008, All Rights Reserved.
# Author: Far Young Chen / fkoo (fkoo.com@gmail.com)
# URL: http://www.fkoo.com
# 安装 mysq15.1.30 二进制包
nohup /mnt/hgfs/share/LAMP--mysq15.1.30-onlv.sh &
# 给 roo t用户添加 mysql 命令环境变量 /usr/local/mysql/bin
# 使环境变量生效
[root@S31 ~]# vi /root/.bash profile
PATH=$PATH:$HOME/bin:/usr/local/mysql/bin
[root@S31 ~]# su -
# 建立测试数据库和表单
# 说明: 表单必须建立, 否则后面配置的 mon 监测不到数据库表单而触发误动作
[root@S31 ~]# mysq1 -p
show databases:
create database fkoodb;
use fkoodb
CREATE TABLE mytable (name VARCHAR(20), sex CHAR(1), \
birth DATE, birthaddr VARCHAR(20);
show tables:
 Tables in fkoodb
  mvtable
DESCRIBE mytable;
 Field
                       Null |
                                 Default
           Type
                            Key
                                         Extra
```

varchar(20)

name

YES

NULL

```
char(1)
                             YES
                                           NULL
  sex
                             YES
                                           NULL
  birth
              date
 birthaddr
              varchar(20)
                                          NULL
                             YES
insert into mytable values ('fkoo', 'm',
                                         '2008-11-26', 'jinan1');
insert into mytable values
                            ('fkoo', 'm',
                                         '2008-11-26'
                                                       'jinan2'):
insert into mytable values ('fkoo', 'm',
                                         ' 2008-11-26'
                                                       'jinan3');
insert into mytable values ('fkoo', 'm', '2008-11-26', 'jinan4'); insert into mytable values ('fkoo', 'm', '2008-11-26', 'jinan5');
insert into mytable values ('fkoo', 'm', '2008-11-26', 'jinan6');
delete from mytable where birthaddr = 'jinan1';
delete from mytable where birthaddr = 'jinan2';
delete from mytable where birthaddr = 'jinan3';
delete from mytable where birthaddr = 'jinan4';
delete from mytable where birthaddr = 'jinan5';
delete from mytable where birthaddr = 'jinan6';
use fkoodb
select * from mytable;
                                  birthaddr
  name
             sex
                     birth
                     2008-11-26
  fkooname
                                  jinan
             m
# drop table mytable;
#修改 mysql 服务的 root 口令
#说明:因安装脚本已经将 root 口令设置为 rvdg9lip,这略过此步骤
use mysal
update user set password=password('rvdg9lip') where user='root';
# 给
use mysal
grant replication slave on *. * to 'fkoocopy'@'172.%' identified by 'fkoopasswd';
grant select on *. * to 'fkoo monitor'@'172.%' identified by 'FkooMonitor':
delete from user where user='':
delete from user where user='root' and host='%':
delete from user where user='root' and host='127.0.0.1':
```

```
delete from user where user='root' and host='T254':
# delete from mysgl.user where user='fkoo monitor';
use mysql
flush privileges;
select * from user;
auit:
#grant all privileges on *. * to 'root'@'%' identified by 'rvdgi, jl';
#grant all privileges on *. * to 'fkoocopy'@'10.0.%' identified by 'fkoopasswd';
#delete from mysgl.user where user='fkoocopy' and host='10.0.%';
#grant all privileges on *. * to 'fkoocopy'@'10.0.1.%' identified by 'fkoopasswd';
#delete from mysql.user where user='fkoocopy' and host='10.0.1.%';
#grant replication slave on *. * to 'fkoocopy'@'%' identified by 'fkoopasswd';
# delete from mysql.user where user='fkoocopy' and host='%';
#grant all privileges on *. * to 'fkoo monitor'@'S221' identified by 'FkooMonitor';
# delete from mysql.user where user='fkoo monitor' and host='S221':
#grant all privileges on *.* to 'fkoo monitor'@'localhost' identified by 'FkooMonitor';
# delete from mysgl.user where user='fkoo monitor' and host='localhost';
#grant all privileges on *. * to 'fkoo monitor'@'%' identified by 'FkooMonitor';
# delete from mysql.user where user='fkoo monitor' and host='%':
[root@S221 \sim]#
# cp /usr/local/mysql/support-files/my-huge.cnf /etc/my.cnf
cp /etc/my.cnf /etc/my.cnf.bak
[root@S221 ~]# vi /etc/my.cnf
# [mysald safe]
# log-error=/var/log/mysqld.log
# pid-file=/var/run/mysqld/mysqld.pid
log-bin=mvsql-bin
server-id
#binlog-do-db=fkoodb
binlog-ignore-db = mysql, information schema, test
auto increment increment = 10
auto increment offset = 1
```

```
master-host=172.31.0.32
master-user=fkoocopy
master-password=fkoopasswd
master-port=3306
master-connect-retry=10
report-host=S31
#replicate-do-db=fkoodb
log-slave-updates
log-warnings
[root@S221 ~]# service mysql restart
[root@S221 ~]# mysq1 -p
show master status;
                           Binlog Do DB
                                        Binlog Ignore DB
                  Position
 mysql-bin. 000001
                       98
                           fkoodb
                                        mysql, information schema
show processlist\G
Id: 407
  User: fkoocopy
  Host: 10.0.2.223:4228
    db: NULL
Command: Binlog Dump
  Time: 225
 State: Has sent all binlog to slave; waiting for binlog to be updated
  Info: NULL
Id: 437
  User: root
  Host: localhost
    db: NULL
Command: Query
  Time: 0
 State: NULL
  Info: show processlist
2 rows in set (0.00 sec)
[root@S221 ~]#
mysgldump -uroot -p fkoodb > fkoodb.sgl
scp fkoodb.sql root@S222:/tmp
```

```
「root@S221~]# 安装Mon
rpm -ivh /mnt/hgfs/share/perl-Time-Period-1.20-2.el5.rf.noarch.rpm
rpm -ivh /mnt/hgfs/share/perl-Net-SNPP-1.17-1.2.el5.rf.noarch.rpm
rpm -ivh /mnt/hgfs/share/perl-Math-TrulyRandom-1.0-1.2.el5.rf.i386.rpm
rpm -ivh /mnt/hgfs/share/perl-Convert-BER-1.3101-1.el5.rf.noarch.rpm
rpm -ivh /mnt/hgfs/share/perl-Mon-0.11-2.2.el5.rf.noarch.rpm
rpm -ivh /mnt/hgfs/share/perl-AOL-TOC-0.340-1.el5.rf.noarch.rpm
rpm -ivh /mnt/hgfs/share/perl-Authen-PAM-0.16-1.2.el5.rf.i386.rpm
rpm -ivh /mnt/hgfs/share/perl-UNIVERSAL-can-1.12-1.el5.rf.noarch.rpm
rpm -ivh /mnt/hgfs/share/perl-UNIVERSAL-isa-0.06-1.el5.rf.noarch.rpm
rpm -ivh /mnt/hgfs/share/perl-Test-MockObject-1.08-1.el5.rf.noarch.rpm
rpm -ivh /mnt/hgfs/share/perl-Test-Mock-LWP-0.05-1.el5.rf.noarch.rpm
rpm -ivh /mnt/hgfs/share/perl-HTML-Tagset-3.20-1.el5.rf.noarch.rpm
rpm -ivh /mnt/hgfs/share/perl-HTML-Parser-3.56-1.el5.rf.i386.rpm
rpm -ivh /mnt/hgfs/share/libghttp-1.0.9-10.99 2.0.el5.i386.rpm
rpm -ivh /mnt/hgfs/share/libghttp-devel-1.0.9-10.99 2.0.el5.i386.rpm
rpm -ivh /mnt/hgfs/share/perl-HTTP-GHTTP-1.07-1.el5.rf.i386.rpm
rpm -ivh /mnt/hgfs/share/perl-libwww-perl-5.803-2 6.0.el5.noarch.rpm
rpm -ivh /mnt/hgfs/share/perl-Net-Daemon-0.43-1.el5.rf.noarch.rpm
rpm -ivh /mnt/hgfs/share/perl-P1RPC-0.2020-1.el5.rf.noarch.rpm
rpm -ivh /mnt/hgfs/share/perl-DBI-1.602-1.el5.rf.i386.rpm
rpm -ivh /mnt/hgfs/share/mysqlclient15-5.0.45-1.el5.remi.i386.rpm
rpm -ivh /mnt/hgfs/share/perl-DBD-mysql-4.006-1.el5.rf.i386.rpm
rpm -i /mnt/hgfs/share/perl-Time-HiRes-1.9712-1.rf.src.rpm
cd /usr/src/redhat/SPECS
rpmbuild -bp perl-Time-HiRes. spec
cd /usr/src/redhat/BUILD/Time-HiRes-1.9712/
perl Makefile. PL
make
make install
cd ../..
rm -rf BUILD/Time-HiRes-1.9712*
rm -rf SOURCES/Time-HiRes-1.9712.tar.gz
rm -rf SPECS/perl-Time-HiRes. spec
rpm -ivh /mnt/hgfs/share/mon-1.2.0-1.el5.rf.i386.rpm
cp /etc/mon/mon.cf /etc/mon/mon.cf.bak
```

scp fkoodb.sql root@S223:/tmp

mysgldump -uroot -p fkoodb > /mnt/hgfs/share/fkoodb.sgl

```
# hostgroup 与 watch 之间必须空一行
[root@S221 ~]# vi /etc/mon/mon.cf
### group definitions (hostnames or IP addresses)
hostgroup MasterDB 172.16.0.32
watch MasterDB
   service mysql
        interval 5s
       monitor msql-mysql.monitor --mode mysql --username=fkoo monitor \
        --password=FkooMonitor --database=fkoodb
        period wd {Mon-Sun}
        alert test.alert
                #alert mail.alert fkoo.com@gmail.com
                #upalert mail.alert fkoo.com@gmail.com
                alertevery 600s
                alertafter 3
hostgroup MasterDB 172.16.0.31
[root@S221 ~]#
chmod 755 /usr/lib/mon/alert.d/test.alert
# echo "service heartbeat stop" >> /usr/lib/mon/alert.d/test.alert
# echo "/usr/lib/heartbeat/hb standby" >> /usr/lib/mon/alert.d/test.alert
echo "service mysql restart" >> /usr/lib/mon/alert.d/test.alert
echo "/usr/lib/heartbeat/hb takeover" >> /usr/lib/mon/alert.d/test.alert
tail /usr/lib/mon/alert.d/test.alert
cp /mnt/hgfs/share/msql-mysql.monitor /usr/lib/mon/mon.d/
chmod 755 /usr/lib/mon/mon.d/msql-mysql.monitor
service mon restart
[root@S221 ~]# monshow --full
  GROUP
                  SERVICE
                               STATUS
                                           LAST
                                                      NEXT
                                                                 ALERTS SUMMARY
R MasterDB
                  mvsa1
                                           1s
                                                      3s
                                                                 none
  GROUP
                  SERVICE
                               STATUS
                                           LAST
                                                      NEXT
                                                                 ALERTS SUMMARY
R MasterDB
                                                                        172, 16, 0, 31
                  mvsa1
                               FAIL
                                           0s
                                                      0s
chkconfig mon on
```

```
chkconfig ——list | grep mon
# service mon stop
chkconfig mysql on
service mysql start
[root@S221&S222 ~]#
groupadd haclient
useradd -g haclient hacluster
[root@S221&S222 heartbeat]#
rpm -ivh /mnt/hgfs/share/perl-TimeDate-1.16-5.el5.noarch.rpm
rpm -ivh /mnt/hgfs/share/heartbeat-pils-2.1.4-2.1.i386.rpm
rpm -ivh /mnt/hgfs/share/heartbeat-stonith-2.1.4-2.1.i386.rpm
rpm -ivh /mnt/hgfs/share/heartbeat-2.1.4-2.1.i386.rpm
rpm -ivh /mnt/hgfs/share/libnet-1.1.2.1-2.1.i386.rpm
cp /usr/share/doc/packages/heartbeat/ha.cf /etc/ha.d/
cp /usr/share/doc/packages/heartbeat/authkeys /etc/ha. d/
cp /usr/share/doc/packages/heartbeat/haresources /etc/ha.d/
chkconfig --add heartbeat
chkconfig heartbeat on
chkconfig ——list | grep heartbeat
[root@S221&S222 heartbeat]#
echo "auth 1" >> /etc/ha. d/authkeys
echo "1 crc" >> /etc/ha. d/authkeys
tail /etc/ha. d/authkeys
chmod 600 /etc/ha.d/authkevs
             DB Master: S221 做以下相同的配置
                                                              #
[root@S221 heartbeat]# vi /etc/ha.d/ha.cf
```

[root@S221 heartbeat]# vi /etc/ha.d/ha.c:debugfile /var/log/ha-debuglogfile /var/log/ha-log

```
keepalive 2
deadtime 30
warntime 10
initdead 120
udpport
              694
bcast eth1
ucast eth0 172.16.0.32
auto failback off
       S31
node
       S32
node
[root@S221 heartbeat]#
# echo "S221 10.0.1.220 mysql mon" >> /etc/ha.d/haresources
echo "S31 172.16.0.30" >> /etc/ha.d/haresources
tail /etc/ha.d/haresources
service heartbeat start
             DB Slaver-ha: S222 / DB Slaver: S223 都做以下相同的配置
[root@S222\&S223 ^{-}] \# mysq1 -p
create database fkoodb:
use fkoodb
show tables:
quit;
[root@S222&S223 ~]#
mysql -u root -prvdgi, jl fkoodb < /mnt/hgfs/share/fkoodb.sql
drop database fkoodb;
    DB Slaver-ha: S222 做以下相同的配置
-----
[root@S222 ~]# mysq1 -p
use mysal
grant replication slave on *. * to 'fkoocopy'@'%' identified by 'fkoopasswd';
flush privileges;
```

```
select * from user;
quit:
# use mysql
# update user set password=password('rvdg9lip') where user='root';
[root@S222 ~]#
cp /usr/local/mysql/support-files/my-huge.cnf /etc/my.cnf
cp /etc/my.cnf /etc/my.cnf.bak
[root@S222 ~]# vi /etc/my.cnf
log-bin=mysql-bin
# server-id
server-id
#binlog-do-db=fkoodb
binlog-ignore-db = mysql, information schema
auto increment increment = 10
auto increment offset = 2
master-host=17\overline{2}.31.0.31
master-user=fkoocopy
master-password=fkoopasswd
master-port=3306
master-connect-retry=10
report-host=S32
#replicate-do-db=fkoodb
log-slave-updates
[root@S222 ~]# service mysql restart
cat /dev/null > /usr/local/mysql/data/master.info
 stop slave;
reset slave;
 start slave:
show master status:
show slave status\G;
service mysql stop
rm -rf /usr/local/mysql/data/fkoodb/
rm -rf /usr/local/mysql/data/mysql-bin.*
rm -rf /usr/local/mysql/data/S32
```

```
rm -rf /usr/local/mysgl/data/S32-relay-bin.*
rm -rf /usr/local/mysql/data/relay-log.info
rm -rf /usr/local/mysgl/data/master.info
service mysql start
service mysql stop
rm -rf /usr/local/mysql/data/fkoodb/
rm -rf /usr/local/mysql/data/mysql-bin.*
rm -rf /usr/local/mysql/data/S31
rm -rf /usr/local/mysql/data/S31-relay-bin.*
rm -rf /usr/local/mysql/data/
rm -rf /usr/local/mysql/data/relay-log.info
rm -rf /usr/local/mysql/data/master.info
service mysql start
[root@S32 ~]# rm -rf /usr/local/mysql/data/
           ib logfile0 ib logfile1 mysql/
                                                  S31. err
                                                              S32. err
                                                                           T254. err
ibdata1
                                                                                       test/
[root@S32 ~]# rm -rf /usr/local/mysql/data/
show slave status\G
Slave IO State: Waiting for master to send event
               Master Host: 10.0.2.220
               Master User: fkoocopy
               Master Port: 3306
             Connect Retry: 10
           Master Log File: mysql-bin. 000003
       Read Master Log Pos: 98
            Relay Log File: S222-relay-bin. 000004
             Relay Log Pos: 235
     Relay Master Log File: mysql-bin. 000003
          Slave IO Running: Yes
         Slave SQL Running: Yes
           Replicate Do DB: fkoodb
       Replicate Ignore DB:
        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: 98
           Relay Log Space: 235
           Until Condition: None
            Until Log File:
             Until Log Pos: 0
        Master SSL Allowed: No
        Master SSL CA File:
        Master SSL CA Path:
           Master SSL Cert:
         Master SSL Cipher:
            Master SSL Key:
     Seconds Behind Master: 0
slave stop;
CHANGE MASTER TO MASTER HOST='10.0.1.221';
slave stop;
reset slave:
slave start;
show slave status\G
vi /usr/local/mysql/data/master.info
            DB Slaver: S223 做以下相同的配置
                                                             #
[root@S223 ~]# vi /etc/sysconfig/network
HOSTNAME=S223
[root@S223 ~]# hostname S223
[root@S223 ~]# vi /etc/my.cnf
#log-bin=mysql-bin
server-id = 3
master-host=10.0.1.220
#auto increment increment = 10
#auto increment offset = 3
master-user=fkoocopy
master-password=fkoopasswd
master-port=3306
master-connect-retry=10
report-host=S223
replicate-do-db=fkoodb
```

```
read-only
#log-slave-updates
log-warnings
[root@S223 ~]# service mysql restart
mysql> show slave status\G
Slave IO State: Waiting for master to send event
               Master Host: 10.0.2.220
               Master User: fkoocopy
               Master Port: 3306
             Connect Retry: 60
           Master Log File: mysql-bin. 000004
       Read Master Log Pos: 98
            Relay Log File: S223-relay-bin.000007
            Relay Log Pos: 235
     Relay Master Log File: mysql-bin. 000004
          Slave IO Running: Yes
         Slave SQL Running: Yes
           Replicate Do DB: fkoodb
       Replicate Ignore DB:
        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: 98
           Relay Log Space: 235
           Until Condition: None
            Until Log File:
            Until Log Pos: 0
        Master SSL Allowed: No
        Master SSL CA File:
        Master SSL CA_Path:
           Master SSL Cert:
         Master SSL Cipher:
            Master SSL Key:
     Seconds Behind Master: 0
```

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```
#
             DB Master: S221 / DB Slaver-ha: S222 都做以下相同的配置
[root@S221&S222 ~]#
groupadd haclient
useradd -g haclient hacluster
[root@S221&S222 heartbeat]#
rpm -ivh /mnt/hgfs/share/perl-TimeDate-1.16-5.el5.noarch.rpm
rpm -ivh /mnt/hgfs/share/heartbeat-pils-2.1.4-2.1.i386.rpm
rpm -ivh /mnt/hgfs/share/heartbeat-stonith-2.1.4-2.1.i386.rpm
rpm -ivh /mnt/hgfs/share/heartbeat-2.1.4-2.1.i386.rpm
rpm -ivh /mnt/hgfs/share/libnet-1.1.2.1-2.1.i386.rpm
cp /usr/share/doc/packages/heartbeat/ha.cf /etc/ha.d/
cp /usr/share/doc/packages/heartbeat/authkeys /etc/ha.d/
cp /usr/share/doc/packages/heartbeat/haresources /etc/ha.d/
chkconfig --add heartbeat
chkconfig heartbeat on
chkconfig --list | grep heartbeat
[root@S221&S222 heartbeat]#
echo "auth 1" >> /etc/ha. d/authkeys
echo "1 crc" >> /etc/ha. d/authkeys
tail /etc/ha.d/authkeys
chmod 600 /etc/ha.d/authkeys
```

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...

DB Master: S221 做以下相同的配置

#

[root@S221 heartbeat]# vi /etc/ha.d/ha.cf
#debugfile /var/log/ha-debug
debugfile /var/log/ha-debug
#logfile /var/log/ha-log
logfile /var/log/ha-log
#keepalive 2
keepalive 2
#deadtime 30
deadtime 30

```
#warntime 10
warntime 10
#initdead 120
initdead 120
#udpport
               694
udpport
              694
bcast eth1
ucast eth0 10.0.1.222
#auto failback on
auto failback off
node
       S221
       S222
node
[root@S221 heartbeat]#
echo "S221 10.0.1.220" >> /etc/ha.d/haresources
# echo "S221 10.0.1.220 mysql mon" >> /etc/ha.d/haresources
tail /etc/ha.d/haresources
             DB Slaver-ha: S222 做以下相同的配置
[root@S222 heartbeat]# vi /etc/ha.d/ha.cf
#debugfile /var/log/ha-debug
debugfile /var/log/ha-debug
          /var/log/ha-log
#logfile
              /var/log/ha-log
logfile
#keepalive 2
keepalive 2
#deadtime 30
deadtime 30
#warntime 10
warntime 10
#initdead 120
initdead 120
               694
#udpport
udpport
              694
bcast eth1
ucast eth0 10.0.1.221
#auto failback on
auto failback off
node
       S221
```

```
S222
node
[root@S222 heartbeat]#
echo "S221 10.0.1.220" >> /etc/ha.d/haresources
tail /etc/ha.d/haresources
            DB Master: S221 / DB Slaver-ha: S222 都做以下相同的配置
service heartbeat start
    调试命令
service heartbeat status
service mysql status
service mon status
ifconfig
monshow --full
service heartbeat start
service mysql start
service mon start
service heartbeat stop
service mysql stop
service mon stop
service heartbeat restart
service mysql restart
service mon restart
tail /var/log/ha-log
tail /var/log/messages
tail /tmp/test.alert.log
cat /dev/null > /tmp/test.alert.log
cat /dev/null > /var/log/ha-log
```

# 如果活动节点需进行维修时,可先将其转移成备援执行 /usr/lib/heartbeat/hb standby

# 如果备援节点要接掌回来的话执行 /usr/lib/heartbeat/hb takeover

use fkoodb select \* from mytable;

slave stop; CHANGE MASTER TO MASTER LOG FILE='mysql-bin.000002', MASTER LOG POS=737; slave start; show slave status\G

## PS:

- 1, Slave机器的权限问题,不但要给slave机器File权限,还要给它REPLICATION SLAVE的权限。
- 2. 在修改完Slave机器/etc/my.cnf之后, slave机器的mysql服务启动之前, 记得要删除掉master.info
- 3, 在show master status 或着show slave status 不正常时,看看.err是怎样说的。
- 4, Slave上Mysql的Replication工作有两个线程, I/O thread和SQL thread。I/O 的作用是从master 3306端口上把它的binlog取过来(master在被修改了任何内容之后,就会把修改了什么写到自己的binlog等待slave更新),然后写到本地的relay—log,而SQL thread则是去读本地的relay—log,再把它转换成本Mysql所能理解的语句,于是同步就这样一步一步的完成. 决定I/O thread的是 /var/lib/mysql/master.info.而决定SQL thread的是/var/lib/mysql/relav-log.info.

## \*\*\*\*\*相关命令:

stop slave #停止同步

start slave #开始同步,从日志终止的位置开始更新。

SET SQL\_LOG\_BIN=0 1 #主机端运行,需要super权限,用来开停日志,随意开停,会造成主机从机数据不一致,造成错误 SET GLOBAL SQL\_SLAVE\_SKIP\_COUNTER=n # 客户端运行,用来跳过几个事件,只有当同步进程出现错误而停止的时候才可以执行。 RESET MASTER #主机端运行,清除所有的日志,这条命令就是原来的FLUSH MASTER

RESET SLAVE #从机运行,清除日志同步位置标志,并重新生成master.info

虽然重新生成了master. info, 但是并不起用, 最好, 将从机的mysql进程重启一下,

```
LOAD TABLE tblname FROM MASTER #从机运行,从主机端重读指定的表的数据,每次只能读取一个,受timeout时间限制,需要调整
timeout时间。执行这个命令需要同步账号有reload和super权限。以及对相应的库有select权限。如果表比较大,要增加
net read timeout 和 net write timeout的值
LOAD DATA FROM MASTER #从机执行,从主机端重新读入所有的数据。执行这个命令需要同步账号有reload和super权限。以及对相应的库
有select权限。如果表比较大,要增加net read timeout 和 net write timeout的值
CHANGE MASTER TO master def list #在线改变一些主机设置,多个用逗号间隔,比如
CHANGE MASTER TO
MASTER HOST='master2.mycompany.com',
MASTER USER='replication',
MASTER PASSWORD='bigs3cret'
FLUSH MASTER:
FLUSH SLAVE:
MASTER POS WAIT() #从机运行
SHOW MASTER STATUS #主机运行,看日志导出信息
SHOW SLAVE HOSTS #主机运行,看连入的从机的情况。
SHOW SLAVE STATUS (slave)
show status slave\G;
SHOW MASTER LOGS (master)
SHOW BINLOG EVENTS [ IN 'logname' ] [ FROM pos ] [ LIMIT [offset, ] rows ]
PURGE [MASTER] LOGS TO 'logname'; PURGE [MASTER] LOGS BEFORE 'date'
PURGE MASTER LOGS TO 'mysql-bin.010';
PURGE MASTER LOGS BEFORE '2003-04-02 22:46:26';
load data from master:
flush slave:
show slave status;
slave stop:
reset slave:
reset master:
slave start;
SHOW MASTER STATUS:
FLUSH MASTER:
FLUSH SLAVE:
Change master to master_host=' 192.168.0.2', master_user=' slave',
master password=' test', master log file=' mysql-bin.000001', master log pos=0:
一些错误信息的处理,主从服务器上的命令,及状态信息。
在从服务器上使用show slave status\G
Slave IO Running, 为No.
则说明IO THREAD没有启动,请执行start slave io_thread
Slave SQL Running为No
```

则复制出错,查看Last\_error字段排除错误后执行start slave sql\_thread 查看Slave IO State字段空 //复制没有启动 Connecting to master//没有连接上master Waiting for master to send event//已经连上 主服务器上的相关命令: show master status show slave hosts show logs show binlog events purge logs to 'log name' purge logs before 'date' reset master(老版本flush master) set sql log bin= 从服务器上的相关命令: slave start slave stop SLAVE STOP IO THREAD //此线程把master段的日志写到本地 SLAVE start IO THREAD SLAVE STOP SQL THREAD //此线程把写到本地的日志应用于数据库 SLAVE start SQL THREAD reset slave SET GLOBAL SQL SLAVE SKIP COUNTER load data from master show slave status (SUPER, REPLICATION CLIENT) CHANGE MASTER TO MASTER HOST=, MASTER PORT=, MASTER USER=, MASTER PASSWORD= //动态改变master信息 PURGE MASTER [before 'date'] 删除master端已同步过的日志 6.3.1 Master 同步线程状态 以下列出了master的 Binlog Dump 线程 State 字段中最常见的几种状态。如果在master上没有 Binlog Dump 线程,那么同步就没有在运 行。 也就是说,没有slave连接上来。 Sending binlog event to slave 事件是由二进制日志构成,一个事件通常由更新语句加上其他信息。线程读取到一个事件并正发送到slave上。 Finished reading one binlog; switching to next binlog 读取完了一个二进制日志,正切换到下一个。 Has sent all binlog to slave; waiting for binlog to be updated

已经读取完全部未完成更新日志,并且全部都发送到slave了。它处于空闲状态,正等待在master上执行新的更新操作以在二进制日志中产 生新

的事件, 然后读取它们。

Waiting to finalize termination 当前线程停止了,这个时间很短。

## 6.3.2 Slave的I/0线程状态

以下列出了slave的I/0线程 State 字段中最常见的几种状态。从MySQL 4.1.1开始,这个状态在执行 SHOW SLAVE STATUS 语句结果的 Slave IO State 字段也会出现。这意味着可以只执行 SHOW SLAVE STATUS 语句就能了解到更多的信息。

Connecting to master

该线程证尝试连接到master上。

Checking master version

确定连接到master后出现的一个短暂的状态。

Registering slave on master

确定连接到master后出现的一个短暂的状态。

Requesting binlog dump

确定连接到master后出现的一个短暂的状态。该线程向master发送一个请求,告诉它要请求的二进制文件以及开始位置。

Waiting to reconnect after a failed binlog dump request

如果二进制日志转储(binary log dump)请求失败了(由于连接断开),该线程在休眠时进入这个状态,并定期重连。重连的时间间隔由——master-connect-retry 选项来指定。

Reconnecting after a failed binlog dump request

该线程正尝试重连到master。

Waiting for master to send event

已经连接到master,正等待它发送二进制日志。如果master闲置时,这个状态可能会持续较长时间,如果它等待超过 slave\_read\_timeout 秒

,就会发生超时。这时,它就会考虑断开连接,然后尝试重连。

Queueing master event to the relay log

已经读取到一个事件,正把它拷贝到中继日志中以备SQL线程处理。

Waiting to reconnect after a failed master event read

读日志时发生错误(由于连接断开)。该线程在重连之前休眠 master-connect-retry 秒。

Reconnecting after a failed master event read

正尝试重连到master。当连接确定后,状态就变成 Waiting for master to send event。

Waiting for the slave SQL thread to free enough relay log space

relay\_log\_space\_limit 的值非零,中继日志的大小总和超过这个值了。I/0线程等待SQL线程先处理中继日志然后删除它们以释放足够的空间

Waiting for slave mutex on exit 当前线程停止了,这个时间很短。

6.3.3 Slave的SQL线程状态

以下列出了slave的SQL线程 State 字段中最常见的几种状态:

Reading event from the relay log

从中继日志里读到一个事件以备执行。

Has read all relay log; waiting for the slave I/O thread to update it

已经处理完中继日志中的全部事件了,正等待I/0线程写入更新的日志。

Waiting for slave mutex on exit

当前线程停止了,这个时间很短。

楼主可以尝试在主从机器都运行的情况下, 在从机输入:

MYSQL>SLAVE START;

强制同步一下看看行不?如果不行,那么:

- 1. 停止主, 从机器的MYSQL服务.
- 2. 在服务全停的情况下,将主,从端的所有 bin. 00\* -relay-bin. 00\* master. info relay-log. info都删除
- 3. 复制主机的/var/lib/mysql(或者说是你的数据库文件)到从机同样的位置(这一步很重要,我参考过官方网站,这一步其实就是一个数据库的SNAPSHOT数据快照,它要求用MYSQLDUMP生成个快照,但复制不是更省事吗:),相当于强制同步了一下)
- 4. 启动MASTER, SLAVE
- 5. 在从端MYSQL>SLAVE START;

应该就可以了.

- > 尝试一下这么做:
- > 1. 停止slave, 记住binlog file, binlog pos

vi /usr/local/mysql/data/S223-relay-bin.000010

- > 2. 删除所有 relay log
- > 3. 用change master 重新指定包括binlog在内的相关参数

已经试过这种方法了, 但不行。

原来,要先stop slave,然后再rest slave,再change master到正确的状态,最后start slave就可以了。

rm -rf /usr/local/mysql/data/mysql-bin.\*
rm -rf /usr/local/mysql/data/master.info
rm -rf /usr/local/mysql/data/\*-relay-bin.\*
ls /usr/local/mysql/data/fkoodb/\*
ls /usr/local/mysql/data/fkoodb/
scp -pr /usr/local/mysql/data/fkoodb/ root@S222:/usr/local/mysql/data/scp -pr /usr/local/mysql/data/fkoodb/ root@S223:/usr/local/mysql/data/
cat /dev/null > /usr/local/mysql/data/master.info
cat /usr/local/mysql/data/master.info
vi /usr/local/mysql/data/mysql-bin.000002