### MYSQL MHA高可用故障转移配制

http://pkgs.repoforge.org/ 这里全是包

URL http://os.51cto.com/art/201307/401702 all.htm

#### 虚拟机

192.168.100.6 atlas

192.168.100.167 atlas 新

192.168.100.99 master

192.168.100.91 slave 管理节点

192.168.100.92 slave

192.168.100.166 master slave

### 一、健立SSH无密码登陆环镜

#### 1.在主MYSQL上运行以下也就是99那台:

ssh-keygen -t rsa 生成钥匙

ssh-copy-id -i /root/.ssh/id\_rsa.pub 192.168.100.99

ssh-copy-id -i /root/.ssh/id\_rsa.pub 192.168.100.166

ssh-copy-id -i /root/.ssh/id\_rsa.pub 192.168.100.91

ssh-copy-id -i /root/.ssh/id\_rsa.pub 192.168.100.92

The authenticity of host '192.168.100.99 (192.168.100.99)' can't be established.

RSA key fingerprint is 30:d7:fa:f8:29:60:c7:9a:6f:15:03:fa:42:12:ab:41.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added '192.168.100.99' (RSA) to the list of known hosts.

root@192.168.100.99's password:

Now try logging into the machine, with "ssh '192.168.100.99", and check in:

.ssh/authorized\_keys

to make sure we haven't added extra keys that you weren't expecting.

#### 2.在主备MYSQL上运行以下也就是166那台:

ssh-keygen -t rsa 生成钥匙

ssh-copy-id -i /root/.ssh/id rsa.pub 192.168.100.99

ssh-copy-id -i /root/.ssh/id rsa.pub 192.168.100.166

ssh-copy-id -i /root/.ssh/id\_rsa.pub 192.168.100.91

ssh-copy-id -i /root/.ssh/id\_rsa.pub 192.168.100.92

The authenticity of host '192.168.100.99 (192.168.100.99)' can't be established.

RSA key fingerprint is 30:d7:fa:f8:29:60:c7:9a:6f:15:03:fa:42:12:ab:41.

Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added '192.168.100.99' (RSA) to the list of known hosts.

root@192.168.100.99's password:

Now try logging into the machine, with "ssh '192.168.100.99", and check in:

.ssh/authorized\_keys

to make sure we haven't added extra keys that you weren't expecting.

以此类推,有多少台就运行多少台。完事后,进行测式SSH登陆: ssh 192.168.100.99 每台都测式

## 二、配置所有MYSQL服务器的host文件

```
vim /etc/hosts
```

192.168.100.99 mastersql

192.168.100.166 backupsql

192.168.100.91 slavesql1

192.168.100.92 slavesql2

## 三、做好mysql的主从关系

此处省略

然后在所有mysql节点上运行以下SQL

mysql> grant all privileges on \*.\* to 'root'@'mastersql' identified by '123';

mysql> grant all privileges on \*.\* to 'root'@'backupsql' identified by '123';

mysql> grant all privileges on \*.\* to 'root'@'slavesql1' identified by '123';

mysql> grant all privileges on \*.\* to 'root'@'slavesql2' identified by '123';

mysql> flush privileges;

======以上不行

grant all privileges on \*.\* to 'mha'@'192.168.100.91' identified by '123456';

grant all privileges on \*.\* to 'mha'@'192.168.100.92' identified by '123456';

grant all privileges on \*.\* to 'mha'@'192.168.100.99' identified by '123456';

grant all privileges on \*.\* to 'mha'@'192.168.100.166' identified by '123456';

### 四、在所有机器上都安装节点包

yum -y install perl-\*

yum -y install perl-DBD-MySQL -------MHA是perl编写的软件需要perl支持 之前yum安装mysql已经安装过了 如果没安装过需要安装这个依赖。

\*如果没有源可以重新设置为阿里的源

A 先备份一下以免出错没还原: mv /etc/yum.repos.d/CentOS-Base.repo

/etc/yum.repos.d/CentOS-Base.repo.backup

B 下载一个啊里源或修改host为112.124.140.210 mirrors.aliyuncs.com 或在MYSQL工具下的yum源下有。

都装完了开始装节点包,每台都装:

tar zxvf mha4mysql-node-0.56.tar.gz

cd mha4mysql-node

perl Makefile.PL

如果运行它报错Can't locate ExtUtils/MakeMaker.pm 那么运行这个: yum install perl-ExtUtils-

CBuilder perl-ExtUtils-MakeMaker

如果报错Can't locate CPAN.pm in @INC 运行yum -y install cpan

make && make install

# 五、安装配置MHA的管理节点(推荐放在从库)我装在了91上

http://pkgs.repoforge.org/ 这里全是包

yum -y install perl-DBD-MySQL perl-Config-Tiny perl-Log-Dispatch perl-Parallel-ForkManager -

-----安装依赖包

安装: mha4mysql-manager-0.56.tar

tar xvf mha4mysql-manager-0.56.tar

cd mha4mysql-manager-0.52

perl Makefile.PL

make

make install

装完后:

[root@localhost mha4mysql-manager-0.52]#mkdir /etc/masterha

[root@localhost mha4mysql-manager-0.52]#mkdir -p /masterha/app1

[root@localhost mha4mysql-manager-0.52]#cp samples/conf/\* /etc/masterha/

进行配置 vim /etc/samples/conf/app1.cnf

[server default] #mysql admin and password user=root password=123 #mha work\_dir and mha\_log manager\_workdir=/etc/mha manager\_log=/etc/mha/manager.log #ssh connection account ssh user=root #ssh免密钥登录的帐号名 #AB copy account and password repl\_user=repl repl password=repl #ping interval=1 #mysql server [server1] hostname=192.168.100.166 port=3306 master binlog dir="/usr/local/mvsgl/data" candidate\_master=1#表示该主机优先可被选为new master, 当多个[serverX]等设置此参数时,优 先级由[serverX]配置的顺序决定 [server2] hostname=192.168.100.99 port=3306 master\_binlog\_dir="/usr/local/mysql/data" candidate\_master=1 [server3] hostname=192.168.100.92 port=3306 master\_binlog\_dir="/usr/local/mysql/data" no master=1 [server4] hostname=192.168.100.91 port=3306 master\_binlog\_dir="/usr/local/mysql/data" no master=1 六、配制好以后进行检查SSH公钥免密码登陆 在/soft/mha4mysql-manager-0.52/bin下面运行以下这句: ./masterha\_check\_ssh --conf=/etc/masterha/app1.cnf Connecting via SSH from root@192.168.100.92(192.168.100.92) to root@192.168.100.99(192.168.100.99).. Sat Feb 6 09:54:59 2016 - [debug] ok. Sat Feb 6 09:54:59 2016 - [debug] Connecting via SSH from root@192.168.100.92(192.168.100.92) to root@192.168.100.166(192.168.100.166).. Sat Feb 6 09:54:59 2016 - [debug] ok. Sat Feb 6 09:54:59 2016 - [debug] Connecting via SSH from root@192.168.100.92(192.168.100.92) to root@192.168.100.91(192.168.100.91).. Sat Feb 6 09:55:00 2016 - [debug] ok. Sat Feb 6 09:55:00 2016 - [debug]

Sat Feb 6 09:54:56 2016 - [debug] Connecting via SSH from

root@192.168.100.166(192.168.100.166) to root@192.168.100.99(192.168.100.99)..

Sat Feb 6 09:54:57 2016 - [debug] ok.

Sat Feb 6 09:54:57 2016 - [debug] Connecting via SSH from

root@192.168.100.166(192.168.100.166) to root@192.168.100.91(192.168.100.91)..

Sat Feb 6 09:54:58 2016 - [debug] ok.

Sat Feb 6 09:54:58 2016 - [debug] Connecting via SSH from

root@192.168.100.166(192.168.100.166) to root@192.168.100.92(192.168.100.92)..

Sat Feb 6 09:54:59 2016 - [debug] ok.

Sat Feb 6 09:55:00 2016 - [debug]

Sat Feb 6 09:54:56 2016 - [debug] Connecting via SSH from root@192.168.100.99(192.168.100.99) to root@192.168.100.166(192.168.100.166)..

Sat Feb 6 09:54:58 2016 - [debug] ok.

Sat Feb 6 09:54:58 2016 - [debug] Connecting via SSH from root@192.168.100.99(192.168.100.99) to root@192.168.100.91(192.168.100.91)..

Sat Feb 6 09:54:58 2016 - [debug] ok.

Sat Feb 6.09:54:58.2016 - [debug] Connecting via SSH from root@192.168.100.99(192.168.100.99) to root@192.168.100.92(192.168.100.92)..

Sat Feb 6 09:54:59 2016 - [debug] ok.

Sat Feb 6 09:55:00 2016 - [debug]

Sat Feb 6.09:54:57.2016 - [debug] Connecting via SSH from root@192.168.100.91(192.168.100.91) to root@192.168.100.99(192.168.100.99)..

Sat Feb 6 09:54:57 2016 - [debug] ok.

Sat Feb 6 09:54:57 2016 - [debug] Connecting via SSH from root@192.168.100.91(192.168.100.91) to root@192.168.100.166(192.168.100.166)..

Sat Feb 6 09:54:58 2016 - [debug] ok.

Sat Feb 6 09:54:58 2016 - [debug] Connecting via SSH from root@192.168.100.91(192.168.100.91) to root@192.168.100.92(192.168.100.92)..

Sat Feb 6 09:54:59 2016 - [debug] ok.

Sat Feb 6 09:55:00 2016 - [info] All SSH connection tests passed successfully.

# 七、检查Mysql的复制

运行这句:检查复制:./masterha\_check\_repl —conf=/etc/masterha/app1.cnf 如果报错:

Can't exec "mysqlbinlog": 没有那个文件或目录 at /usr/local/share/perl5/MHA/BinlogManager.pm line 106.

mysqlbinlog version command failed with rc 1:0, please verify PATH, LD\_LIBRARY\_PATH, and client options

at /usr/local/bin/apply\_diff\_relay\_logs line 493

Sat Feb 6 14:36:44 2016 - [error][/usr/local/share/perl5/MHA/MasterMonitor.pm, ln205] Slaves settings check failed!

Sat Feb 6 14:36:44 2016 - [error][/usr/local/share/perl5/MHA/MasterMonitor.pm, In413] Slave configuration failed.

Sat Feb 6 14:36:44 2016 - [error][/usr/local/share/perl5/MHA/MasterMonitor.pm, In424] Error happened on checking configurations. at ./masterha check repl line 48

Sat Feb 6 14:36:44 2016 - [error][/usr/local/share/perl5/MHA/MasterMonitor.pm, ln523] Error happened on monitoring servers.

Sat Feb 6 14:36:44 2016 - [info] Got exit code 1 (Not master dead).

运行下面: 做个软连接

In -s /usr/local/mysql/bin/mysqlbinlog /usr/bin/mysqlbinlog

如果出现以下报错:

Sat Feb 6 15:39:01 2016 - [info] Checking replication health on 192.168.100.99..

Sat Feb 6 15:39:01 2016 - [error][/usr/local/share/perl5/MHA/Server.pm, In485] Slave IO thread is

```
not running on 192.168.100.99(192.168.100.99:3306)
Sat Feb 6 15:39:01 2016 - [error][/usr/local/share/perl5/MHA/ServerManager.pm, ln1526] failed!
Sat Feb 6 15:39:01 2016 - [error][/usr/local/share/perl5/MHA/MasterMonitor.pm, ln424] Error
happened on checking configurations. at /usr/local/share/perl5/MHA/MasterMonitor.pm line 417
Sat Feb 6 15:39:01 2016 - [error][/usr/local/share/perl5/MHA/MasterMonitor.pm, In523] Error
happened on monitoring servers.
最好是去这台上面show slave status一下,因为我这是主,但是以前做过从,所以在上面还有一些
信息。先stop slave后再reset slave;
Sat Feb 6 16:00:54 2016 - [info] Reading default configuration from /etc/masterha_default.cnf..
Sat Feb 6 16:00:54 2016 - [info] Reading application default configuration from
/etc/masterha/app1.cnf..
Sat Feb 6 16:00:54 2016 - [info] Reading server configuration from /etc/masterha/app1.cnf..
Sat Feb 6 16:00:54 2016 - [info] MHA::MasterMonitor version 0.56.
Sat Feb 6 16:00:55 2016 - [info] GTID failover mode = 0
Sat Feb 6 16:00:55 2016 - [info] Dead Servers:
Sat Feb 6 16:00:55 2016 - [info] Alive Servers:
Sat Feb 6 16:00:55 2016 - [info] 192.168.100.166(192.168.100.166:3306)
Sat Feb 6 16:00:55 2016 - [info] 192.168.100.99(192.168.100.99:3306)
Sat Feb 6 16:00:55 2016 - [info] 192.168.100.92(192.168.100.92:3306)
Sat Feb 6 16:00:55 2016 - [info] 192.168.100.91(192.168.100.91:3306)
Sat Feb 6 16:00:55 2016 - [info] Alive Slaves:
Sat Feb 6 16:00:55 2016 - [info] 192.168.100.166(192.168.100.166:3306) Version=5.6.25-log
(oldest major version between slaves) log-bin:enabled
Sat Feb 6 16:00:55 2016 - [info]
                                   Replicating from 192.168.100.99(192.168.100.99:3306)
Sat Feb 6 16:00:55 2016 - [info]
                                   Primary candidate for the new Master (candidate_master is set)
Sat Feb 6 16:00:55 2016 - [info] 192.168.100.92(192.168.100.92:3306) Version=5.6.25-log
(oldest major version between slaves) log-bin:enabled
Sat Feb 6 16:00:55 2016 - [info]
                                   Replicating from 192.168.100.99(192.168.100.99:3306)
Sat Feb 6 16:00:55 2016 - [info]
                                   Not candidate for the new Master (no master is set)
Sat Feb 6 16:00:55 2016 - [info] 192.168.100.91(192.168.100.91:3306) Version=5.6.25-log
(oldest major version between slaves) log-bin:enabled
Sat Feb 6 16:00:55 2016 - [info]
                                   Replicating from 192.168.100.99(192.168.100.99:3306)
Sat Feb 6 16:00:55 2016 - [info]
                                   Not candidate for the new Master (no master is set)
Sat Feb 6 16:00:55 2016 - [info] Current Alive Master: 192.168.100.99(192.168.100.99:3306)
Sat Feb 6 16:00:55 2016 - [info] Checking slave configurations..
Sat Feb 6 16:00:55 2016 - [info] read only=1 is not set on slave
192.168.100.166(192.168.100.166:3306).
Sat Feb 6 16:00:55 2016 - [warning] relay_log_purge=0 is not set on slave
192.168.100.166(192.168.100.166:3306).
Sat Feb 6 16:00:55 2016 - [warning] relay_log_purge=0 is not set on slave
192.168.100.92(192.168.100.92:3306).
Sat Feb 6 16:00:55 2016 - [warning] relay log purge=0 is not set on slave
192.168.100.91(192.168.100.91:3306).
Sat Feb 6 16:00:55 2016 - [info] Checking replication filtering settings...
Sat Feb 6 16:00:55 2016 - [info] binlog_do_db= , binlog_ignore_db=
Sat Feb 6 16:00:55 2016 - [info] Replication filtering check ok.
Sat Feb 6 16:00:55 2016 - [info] GTID (with auto-pos) is not supported
Sat Feb 6 16:00:55 2016 - [info] Starting SSH connection tests..
Sat Feb 6 16:00:58 2016 - [info] All SSH connection tests passed successfully.
```

Sat Feb 6 16:00:58 2016 - [info] Checking MHA Node version..

```
Sat Feb 6 16:00:58 2016 - [info] Version check ok.
Sat Feb 6 16:00:58 2016 - [info] Checking SSH publickey authentication settings on the current
master..
Sat Feb 6 16:00:58 2016 - [info] HealthCheck: SSH to 192.168.100.99 is reachable.
Sat Feb 6 16:00:59 2016 - [info] Master MHA Node version is 0.56.
Sat Feb 6 16:00:59 2016 - [info] Checking recovery script configurations on
192.168.100.99(192.168.100.99:3306)..
Sat Feb 6 16:00:59 2016 - [info] Executing command: save binary logs --command=test --
start_pos=4 --binlog_dir=/usr/local/mysql/data --output_file=/etc/masterha/save_binary_logs_test --
manager version=0.56 --start file=mysql-bin.000006
Sat Feb 6 16:00:59 2016 - [info] Connecting to root@192.168.100.99(192.168.100.99:22)...
 Creating /etc/masterha if not exists..
                                        ok.
 Checking output directory is accessible or not..
  ok.
 Binlog found at /usr/local/mysql/data, up to mysql-bin.000006
Sat Feb 6 16:00:59 2016 - [info] Binlog setting check done.
Sat Feb 6 16:00:59 2016 - [info] Checking SSH publickey authentication and checking recovery script
configurations on all alive slave servers..
Sat Feb 6 16:00:59 2016 - [info] Executing command : apply_diff_relay_logs --command=test --
slave user='root' --slave host=192.168.100.166 --slave ip=192.168.100.166 --slave port=3306 --
workdir=/etc/masterha --target version=5.6.25-log --manager version=0.56 --
relay_log_info=/usr/local/mysql/data/relay-log.info --relay_dir=/usr/local/mysql/data/ --
slave pass=xxx
Sat Feb 6 16:00:59 2016 - [info] Connecting to root@192.168.100.166(192.168.100.166:22)...
 Checking slave recovery environment settings..
  Opening /usr/local/mysql/data/relay-log.info ... ok.
  Relay log found at /usr/local/mysql/data, up to mysql-relay-bin.000018
  Temporary relay log file is /usr/local/mysql/data/mysql-relay-bin.000018
  Testing mysgl connection and privileges. Warning: Using a password on the command line interface
can be insecure.
done.
  Testing mysqlbinlog output.. done.
  Cleaning up test file(s).. done.
Sat Feb 6 16:00:59 2016 - [info] Executing command: apply_diff_relay_logs --command=test --
slave user='root' --slave host=192.168.100.92 --slave ip=192.168.100.92 --slave port=3306 --
workdir=/etc/masterha --target version=5.6.25-log --manager version=0.56 --
relay_log_info=/usr/local/mysql/data/relay-log.info --relay_dir=/usr/local/mysql/data/ --
slave pass=xxx
Sat Feb 6 16:00:59 2016 - [info] Connecting to root@192.168.100.92(192.168.100.92:22)...
 Checking slave recovery environment settings..
  Opening /usr/local/mysql/data/relay-log.info ... ok.
  Relay log found at /usr/local/mysql/data, up to mysql-relay-bin.000016
  Temporary relay log file is /usr/local/mysql/data/mysql-relay-bin.000016
  Testing mysgl connection and privileges. Warning: Using a password on the command line interface
can be insecure.
done.
  Testing mysqlbinlog output.. done.
  Cleaning up test file(s).. done.
Sat Feb 6 16:00:59 2016 - [info] Executing command : apply_diff_relay_logs --command=test --
slave_user='root' --slave_host=192.168.100.91 --slave_ip=192.168.100.91 --slave_port=3306 --
```

workdir=/etc/masterha --target\_version=5.6.25-log --manager\_version=0.56 -relay\_log\_info=/usr/local/mysql/data/relay-log.info --relay\_dir=/usr/local/mysql/data/ -slave\_pass=xxx
Sat Feb 6 16:00:59 2016 - [info] Connecting to root@192.168.100.91(192.168.100.91:22)..
Checking slave recovery environment settings..
Opening /usr/local/mysql/data/relay-log.info ... ok.
Relay log found at /usr/local/mysql/data, up to mysql-relay-bin.000017
Temporary relay log file is /usr/local/mysql/data/mysql-relay-bin.000017
Testing mysql connection and privileges..Warning: Using a password on the command line interface can be insecure.

done.

Testing mysqlbinlog output.. done.

Cleaning up test file(s).. done.

Sat Feb 6 16:01:00 2016 - [info] Slaves settings check done.

Sat Feb 6 16:01:00 2016 - [info]

192.168.100.99(192.168.100.99:3306) (current master)

+--192.168.100.166(192.168.100.166:3306)

+--192.168.100.92(192.168.100.92:3306)

+--192.168.100.91(192.168.100.91:3306)

Sat Feb 6 16:01:00 2016 - [info] Checking replication health on 192.168.100.166..

Sat Feb 6 16:01:00 2016 - [info] ok.

Sat Feb 6 16:01:00 2016 - [info] Checking replication health on 192.168.100.92..

Sat Feb 6 16:01:00 2016 - [info] ok.

Sat Feb 6 16:01:00 2016 - [info] Checking replication health on 192.168.100.91..

Sat Feb 6 16:01:00 2016 - [info] ok.

Sat Feb 6 16:01:00 2016 - [warning] master ip failover script is not defined.

Sat Feb 6 16:01:00 2016 - [warning] shutdown script is not defined.

Sat Feb 6 16:01:00 2016 - [info] Got exit code 0 (Not master dead).

MySQL Replication Health is OK.

启动MHA: nohup ./masterha\_manager --conf=/etc/masterha/app1.cnf &

停止MHA: ./masterha\_stop --config=/etc/masterha/app1.cnf

检查MHA的运行情况: masterha\_check\_status --conf=/etc/masterha/app1.cnf

app1 (pid:3431) is running(0:PING\_OK), master:192.168.100.99

--remove\_dead\_master\_conf 该参数代表当发生主从切换后,老的主库的ip将会从配置文件中移除。

--manger\_log 日志存放位置

--ignore\_last\_failover 在缺省情况下,如果MHA检测到连续发生宕机,且两次宕机间隔不足8小时的话,则不会进行Failover,之所以这样限制是为了避免ping-pong效应。 该参数代表忽略上次MHA触发切换产生的文件 ,默认情况下,MHA发生切换后会在日志目录,也就是上面我设置的/data产生app1.failover.complete文件,下次再次切换的时候如果发现该目录下存在该文件将不允许触发切换,除非在第一次切换后收到删除该文件,为了方便,这里设置为一ignore last failover。

# 八、安装keepalived

在两台主上安装它:

tar xvf keepalived-1.2.19.tar

cd keepalived-1.2.19

./configure --prefix=/usr/local/keepalived/#把它安装到指定目录 make && make install

```
cp /usr/local/keepalived/etc/rc.d/init.d/keepalived /etc/init.d/
cp /usr/local/keepalived/etc/sysconfig/keepalived /etc/sysconfig/
mkdir /etc/keepalived/
cp /usr/local/keepalived/etc/keepalived/keepalived.conf /etc/keepalived/
cp /usr/local/keepalived/sbin/keepalived /usr/sbin/
在99上面配制keepalived
把vrrp instance VI 1里的state 改为MASTER
在virtual_ipaddress里加入虚拟IP我加的是192.168.100.130
把priority 改一下权重,值越大优先级越高。BACKUP不能大于MASTER
! Configuration File for keepalived
global defs {
   router id HA MySQL
}
vrrp instance VI 1 {
   state MASTER
  interface eth0
   virtual router id 51 #组ID
   priority 10 #表示优先级
   advert int 1
   #nopreempt #表示Master恢复正常之后,是否将VIP继续指向Master这样的话,会再次引发切换。
   authentication {
     auth_type PASS
     auth pass 1111
  }
   #虚拟的IP地址(VIP)
  virtual ipaddress {
     192.168.100.130
  }
}
virtual_server 192.168.100.130 3306 {
   delay loop 2 #每个2秒检查一次real server状态
   lb algo wrr
   lb kind DR
   persistence_timeout 60
   protocol TCP
   real_server 192.168.100.99 3306 {
     weight 3
     notify_down /etc/keepalived/check_mysql.sh #检测到服务down后执行的脚本
     TCP CHECK {
        connect_timeout 10 #连接超时时间
        nb_get_retry 3 #重连次数
        delay_before_retry 3 #重连间隔时间
        connect_port 3306 # 健康检查端口
     }
  }
}
```

```
在166里配制keepalived
```

```
! Configuration File for keepalived
global_defs {
   router id HA MySQL
}
vrrp instance VI 1 {
   state BACKUP
  interface eth0
  virtual router id 51 #组ID
   priority 99 #表示优先级
   advert_int 1
   nopreempt #表示Master恢复正常之后,是否将VIP继续指向Master这样的话,会再次引发切换。
   authentication {
     auth_type PASS
     auth_pass 1111
  }
   #虚拟的IP地址(VIP)
  virtual_ipaddress {
     192.168.100.130
  }
}
virtual_server 192.168.100.130 3306 {
   delay_loop 2 #每个2秒检查一次real_server状态
   lb algo wrr
   lb kind DR
   persistence_timeout 60
   protocol TCP
   real server 192.168.100.166 3306 {
     weight 3
     notify down /etc/keepalived/check_mysql.sh #检测到服务down后执行的脚本
     TCP CHECK {
        connect_timeout 10 #连接超时时间
        nb get retry 3 #重连次数
       delay_before_retry 3 #重连间隔时间
       connect_port 3306 # 健康检查端口
     }
  }
}
/etc/keepalived/check_mysql.sh 文件的内容如下:
#!/bin/bash
pkill keepalived
然后一定要给执行权限: chmod +x check_mysql.sh
启动keepalived:service keepalived start
[root@ares-LNMP ~]# ip addr
1: lo: <LOOPBACK,UP,LOWER UP> mtu 65536 gdisc nogueue state UNKNOWN
  link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00
  inet 127.0.0.1/8 scope host lo
```

inet6::1/128 scope host

valid\_lft forever preferred\_lft forever

2: eth0: <BROADCAST,MULTICAST,UP,LOWER\_UP> mtu 1500 qdisc pfifo\_fast state UP qlen 1000

link/ether 00:0c:29:f8:68:37 brd ff:ff:ff:ff:ff

inet 192.168.100.99/24 brd 192.168.100.255 scope global eth0

inet 192.168.100.130/32 scope global eth0 inet6 fe80::20c:29ff:fef8:6837/64 scope link valid\_lft forever preferred\_lft forever

以上是在MASTER上,在BACKUP上没有是正常的

查看状态: service keepalived status