**调控云数据库修改配置操作方案**

**一、工作任务**

这次操作目的是主要为了修改ha资源超时时间由之前的20s改为120s，修改ha主配置文件增加token参数，修改chckgky脚本为了防止出现双挂脑裂现象。

**二、工作时间**

2022年3月31日 18:30-19:30

**三、前期工作**

备份数据：已完成备份

备份主备机/etc/corosync下的ha.cf、corosync.conf，到/opt目录，即为 cp -rp /etc/corosync/ha.cf /opt/ha.cf\_20220330.bak ,cp -rp /etc/corosync/corosync.conf /opt/corosync.conf\_20220330.bak ; 备份主备机/var/lib/heartbeat/crm/cib.xml到/opt/目录，即为cp -a /var/lib/heartbeat/crm/cib.xml /opt/cib.xml\_20220330.bak。

备份主备机/usr/sbin下的chkckgy文件，到/opt目录，即为cp -rp /usr/sbin/chckgy /opt/chckgy\_20220330.bak;

修改dm8-2的corosync.conf配置文件，并将该配置文件保存到/opt/corosync.conf

|  |  |
| --- | --- |
| 原配置文件内容 | 修改后的文件内容 |
| md5哈希值：12e36f34e5537a441a2fd779f3dd85ab | md5哈希值：77c3c54f3600a0fee2bbad33754ea7f2 |
| 修改前的配置文件代码:  rrp\_mode:active | 修改后的配置文件代码:  token: 10000  rrp\_mode: passive |

修改dm8-1的corosync.conf配置文件，并将该配置文件保存到/opt/corosync.conf

|  |  |  |  |
| --- | --- | --- | --- |
| 原配置文件内容 | 修改后的文件内容 |  |  |
| md5哈希值：12e36f34e5537a441a2fd779f3dd85ab | md5哈希值：a8b819aa97f936bd6ae9e772c85224f8 |  |  |
| 修改前的配置文件代码:  rrp\_mode:active | 修改后的配置文件代码:  token: 10000  rrp\_mode: passive |  |  |

修改dm8-1的chkckgy配置文件，并将该配置文件保存到/opt/chkckgy

|  |  |
| --- | --- |
| 原配置文件内容 | 修改后的文件内容 |
| md5哈希值：6a1ae032a0e9292a2222972dea17683d | md5哈希值：84a0d16447f8aaea41f80246d1a0cba9 |
| 修改前的配置文件代码:  SERVICE="dmserverd"  SLEEPT=75  UMOUNTP="/dbdata"  UMOUNTPT="/dbbak"  ITFC="bond0"  VIP="192.168.2.3"  service $SERVICE status > /dev/null  if [ $? -ne 0 ]; then  time=`date +%D%t%T`  echo $time "Please wait,Resources is not running..." >> /var/log/ha\_kylin.log  sleep $SLEEPT  node\_n=(`crm\_mon -1 | grep Started | grep -v pingd | awk '{print $4}'`)  name\_n=`uname -n`  if [ $node\_n ];then  if [ $name\_n = $node\_n ];then  service $SERVICE status > /dev/null  if [ $? -ne 0 ]; then  time=`date +%D%t%T`  echo $time "The HA is stopped" >> /var/log/ha\_kylin.log  # echo 1 > /dev/watchdog  dmserverpid=`ps -ef | grep bin/dmserver | grep -v grep | awk '{print $2}'`  corpid=`service corosync status | awk '{print $3}' | awk -F ")" '{print $1}'`  kill -9 $dmserverpid  kill -9 $corpid  sleep 2  umount -l $UMOUNTP  umount -l $UMOUNTPT  ip a del $VIP dev $ITFC | 修改后的配置文件代码：  SERVICE="dmserverd"  SERVICE1="dmapd"  SLEEPT=75  UMOUNTPH="/dbdata"  UMOUNTPK="/dbbak"  UMOUNTPT1="/dbarch"  ITFC="bond0"  VIP="192.168.2.3"  service $SERVICE status > /dev/null && service $SERVICE1 status > /dev/null  if [ $? -ne 0 ]; then  time=`date +%D%t%T`  echo $time "Please wait,Resources is not running..." >> /var/log/ha\_kylin.log  sleep $SLEEPT  node\_n=(`crm\_mon -1 | grep Started | grep -v pingd | awk '{print $4}'`)  name\_n=`uname -n`  if [ $node\_n ];then  if [ $name\_n = $node\_n ];then  service $SERVICE status > /dev/null && service $SERVICE1 status > /dev/null  if [ $? -ne 0 ]; then  time=`date +%D%t%T`  echo $time "The HA is stopped" >> /var/log/ha\_kylin.log  # echo 1 > /dev/watchdog  dmserverpid=`ps -ef | grep bin/dmserver | grep -v grep | awk '{print $2}'`  dmappid=`ps -ef | grep bin/dmap | grep -v grep | awk '{print $2}'`  corpid=`service corosync status | awk '{print $3}' | awk -F ")" '{print $1}'`  kill -9 $dmserverpid  kill -9 $dmappid  kill -9 $corpid  sleep 2  umount -l $UMOUNTPH  umount -l $UMOUNTPK  umount -l $UMOUNTPT1  ip a del $VIP dev $ITFC |

修改dm8-2的chkckgy配置文件，并将该配置文件保存到/opt/chkckgy

|  |  |  |  |
| --- | --- | --- | --- |
| 原配置文件内容 | 修改后的文件内容 |  |  |
| md5哈希值：e2dfbec27acdb5bb555034aadd7d7031 | md5哈希值：2daa1b95b9dd21690aeb2812a45b9f28 |  |  |
| 修改前的配置文件代码:  SERVICE="dmserverd"  SLEEPT=75  UMOUNTP="/dbdata"  UMOUNTPT="/dbbak"  ITFC="bond0"  VIP="192.168.2.3"  service $SERVICE status > /dev/null  if [ $? -ne 0 ]; then  time=`date +%D%t%T`  echo $time "Please wait,Resources is not running..." >> /var/log/ha\_kylin.log  sleep $SLEEPT  node\_n=(`crm\_mon -1 | grep Started | grep -v pingd | awk '{print $4}'`)  name\_n=`uname -n`  if [ $node\_n ];then  if [ $name\_n = $node\_n ];then  service $SERVICE status > /dev/null  if [ $? -ne 0 ]; then  time=`date +%D%t%T`  echo $time "The HA is stopped" >> /var/log/ha\_kylin.log  # echo 1 > /dev/watchdog  dmserverpid=`ps -ef | grep bin/dmserver | grep -v grep | awk '{print $2}'`  corpid=`service corosync status | awk '{print $3}' | awk -F ")" '{print $1}'`  kill -9 $dmserverpid  kill -9 $corpid  sleep 2  umount -l $UMOUNTP  umount -l $UMOUNTPT  ip a del $VIP dev $ITFC | 修改后的配置文件代码：  SERVICE="dmserverd"  SERVICE1="dmapd"  SLEEPT=75  UMOUNTPH="/dbdata"  UMOUNTPK="/dbbak"  UMOUNTPT1="/dbarch"  ITFC="bond0"  VIP="192.168.2.3"  service $SERVICE status > /dev/null && service $SERVICE1 status > /dev/null  if [ $? -ne 0 ]; then  time=`date +%D%t%T`  echo $time "Please wait,Resources is not running..." >> /var/log/ha\_kylin.log  sleep $SLEEPT  node\_n=(`crm\_mon -1 | grep Started | grep -v pingd | awk '{print $4}'`)  name\_n=`uname -n`  if [ $node\_n ];then  if [ $name\_n = $node\_n ];then  service $SERVICE status > /dev/null && service $SERVICE1 status > /dev/null  if [ $? -ne 0 ]; then  time=`date +%D%t%T`  echo $time "The HA is stopped" >> /var/log/ha\_kylin.log  # echo 1 > /dev/watchdog  dmserverpid=`ps -ef | grep bin/dmserver | grep -v grep | awk '{print $2}'`  dmappid=`ps -ef | grep bin/dmap | grep -v grep | awk '{print $2}'`  corpid=`service corosync status | awk '{print $3}' | awk -F ")" '{print $1}'`  kill -9 $dmserverpid  kill -9 $dmappid  kill -9 $corpid  sleep 2  umount -l $UMOUNTPH  umount -l $UMOUNTPK  umount -l $UMOUNTPT1  ip a del $VIP dev $ITFC |  |  |

**四、操作流程**

1、停止备机（dm8-2）HA。

|  |
| --- |
| dm8-2# sync  dm8-2# service corosync stop  dm8-1# crm\_mon |

2、将备机修改好的配置文件覆盖原有文件，替换corosync.conf文件，替换/opt/corosync.conf到/etc/corosync/下，替换ha.cf文件，替换/opt/ha.cf到/etc/corosync下，替换/opt/chckgky到/usr/sbin下。

参考命令如下：

|  |
| --- |
| dm8-2# cp -rp /opt/corosync.conf /etc/corosync  dm8-2# cp -rp /opt/ha.cf /etc/corosync  dm8-2# cp -rp /opt/chckgky /usr/sbin |

1. 停止主机（dm8-1）ha

|  |
| --- |
| dm8-2# sync  dm8-2# service corosync stop |

将dm8-1修改好的配置文件覆盖原有文件，替换corosync.conf文件，替换/opt/corosync.conf到/etc/corosync下,替换ha.cf文件，替换/opt/ha.cf到/etc/corosync目录下,替换/opt/ha.cf到/etc/corosync下，替换/opt/chckgky到/usr/sbin下。

参考命令如下：

|  |
| --- |
| dm8-1# cp -rp /opt/corosync.conf /etc/corosync  dm8-1# cp -rp /opt/ha.cf /etc/corosync  dm8-1# cp -rp /opt/chckgky /usr/sbin |

4、启动主机（dm8-1）HA，service corosync start 。

|  |
| --- |
| dm8-1# sync  dm8-1# service corosync start  dm8-1# crm\_mon |

5、crm\_mon查看是否online。

|  |
| --- |
| dm8-1# crm\_mon |

6、启动备机（dm8-2）HA，service corosync start

|  |
| --- |
| dm8-2# sync  dm8-2# service corosync start  dm8-2# crm\_mon |

7、crm\_mon查看是否online。

|  |
| --- |
| dm8-1# crm\_mon |

8、修改超时时间,将timeout的时间由20s改为120s。

参考命令如下：

|  |
| --- |
| dm8-2# crm  crm(live)#configure  crm(live)#configure#edit 增加monitor timeout时间,start timeout时间，stop timeout时间，default timeout时间。  **修改前**  微信图片_20220331092311  **修改后**  1246061868  crm(live)#configure#commit |

10、观察ha状态正常之后，分别在主备机执行/usr/sbin/deam\_hb & 耗时预计两分钟

**五、异常情况处理方法**

1、操作系统层面，HA修改配置操作，保存原配置文件备份，一旦出现问题，可立即进行回退。