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corosync和pacemaker实现httpd和mysql双集群

原创

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评论(0)

290人阅读

一、环境介绍：

三台均为双网卡：

openstack-control.example.com openstack-control
eth0:172.16.171.100
eth1:10.1.1.100
openstack-nova.example.com openstack-nova
eth0:172.16.171.110
eth1:10.1.1.110
openstack-neutron.example.com openstack-neutron
eth0:172.16.171.120
eth1:10.1.1.120

二、corosync和pacemaker配置步骤如下：

- 1、配置时区及同步时间
- 2、配置集群节点间通过主机名互相通信
- 3、配置集群主机能使root用户基于无密码ssh秘钥方式进行通信
- 4、关闭selinux和iptables
- 5、安装corosync和pacemaker包
- 6、修改corosync.conf配置文件

compatibility: whitetank

```
totem {  
    version: 2  
    secauth: on  
    threads: 2  
    rrp_mode: passive  
    interface {  
        ringnumber: 0  
        bindnetaddr: 10.1.1.0  
        mcastaddr: 239.255.1.1  
        mcastport: 5405  
        ttl: 1  
    }  
    interface {  
        ringnumber: 1  
        bindnetaddr: 172.16.171.0  
        mcastaddr: 238.255.1.1  
        mcastport: 5406  
        ttl: 1  
    }  
}
```

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```
logging {
    fileline: off
    to_stderr: no
    to_logfile: yes
    logfile: /var/log/cluster/corosync.log
    to_syslog: no
    debug: off
    timestamp: on
    logger_subsys {
        subsys: AMF
        debug: off
    }
}

service {
    ver: 0
    name: pacemaker
}
```

关注作者，不错过每一篇精彩

7、生成认证文件：authkey 并传给其他集群服务器

8、启动corosync服务，并查看日志

9、安装crmsh

```
http://download.opensuse.org/repositories/network:/ha-clustering:/Stable/CentOS_CentOS-6/
[network_ha-clustering_Stable]
name=Stable High Availability/Clustering packages (CentOS_CentOS-6) type=rpm-md
baseurl=http://download.opensuse.org/repositories/network:/ha-clustering:/Stable/CentOS_CentOS-6/
gpgcheck=1
gpgkey=http://download.opensuse.org/repositories/network:/ha-clustering:/Stable/CentOS_CentOS-6/repo
md.xml.key
enabled=1
```

10、使用crmsh工具配置全局属性

```
crm(live)#configure
crm(live)configure#property stonith-enabled=false
crm(live)configure#property no-quorum-policy=ignore
crm(live)configure#property default-resource-stickiness=100
```

11、使用crmsh工具配置ip资源、nfs资源和mysql资源和配置这两个资源的协同约束（排列约束）、顺序约束

mysql:

```
crm(live)configure#primitive mysqlvip ocf:heartbeat:IPaddr params ip='10.1.1.200' nic='eth1' cidr_ne
tmask='24' broadcast='10.1.1.0' op monitor interval=30s(启动延迟时间) timeout=20s(监控超时时间)
```

```
crm(live)configure#primitive mysqlnfs ocf:heartbeat:Filesystem params device='10.1.1.100:/mysqldata' dir
ectory='/mydata' fstype='nfs' op monitor interval=20s timeout=40s
```

```
crm(live)configure#verify
```

```
crm(live)configure#primitive mysqlserver lsb:mysqlld op monitor interval=30s timeout=15s
```

```
crm(live)configure#colocation myserver inf: mysqlvip mysqlnfs mysqlserver
```

```
crm(live)configure#order mysqlnfs_before_mysqlserver mandatory: mysqlnfs mysqlserver
```

httpd:

```
crm(live)configure#primitive httpdvip ocf:heartbeat:IPaddr params ip='172.16.171.200' nic='eth0' cid
r_netmask='24' broadcast='172.16.171.0' op monitor interval=30s(启动延迟时间) timeout=20s(监控超时时间)
```

```

crm(live)configure#primitive httpdnfs ocf:heartbeat:Filesystem params device='172.16.171.100:/myhttpd'
irectory='/var/www/html' fstype='nfs' op monitor interval=20s timeout=40s

crm(live)configure#verify

crm(live)configure#primitive httpdserver lsb:httpd op monitor interval=30s timeout=15s

crm(live)configure#colocation myapacheserver inf: httpdvip httpdnfs httpdserver

crm(live)configure#order httpdnfs_before_httpdserver mandatory: httpdnfs httpdserver

```



具体查看如下图：

```

crm(live)# configure
crm(live)configure# show
node openstack-control.example.com \
    attributes standby=off
node openstack-neutron.example.com \
    attributes standby=off
node openstack-nova.example.com \
    attributes standby=off
primitive httpdnfs Filesystem \
    params device="172.16.171.100:/myhttpd" directory="/var/www/html" fstype=nfs \
    op monitor interval=20s timeout=40s
primitive httpdserver lsb:httpd \
    op monitor interval=20s timeout=40s
primitive httpdvip IPAddr \
    params ip=172.16.171.200 nic=eth0 cidr_netmask=24 broadcast=172.16.171.0 \
    op monitor interval=30s timeout=40s
primitive mysqlnfs Filesystem \
    params device="10.1.1.100:/mysqldata" directory="/mydata" fstype=nfs \
    op monitor interval=20s timeout=40s
primitive mysqlserver lsb:mysql \
    op monitor interval=30s timeout=15s
primitive mysqlvip IPAddr \
    params ip=10.1.1.200 nic=eth1 cidr_netmask=24 broadcast=10.1.1.0 \
    op monitor interval=20s timeout=40s
colocation myapacheserver inf: httpdnfs httpdvip httpdserver
colocation myserver inf: mysqlvip mysqlnfs mysqlserver
order httpdnfs_before_httpdserver Mandatory: httpdnfs httpdserver
order mysqlnfs_before_mysqlserver Mandatory: mysqlnfs mysqlserver
property cib-bootstrap-options: \
    dc-version=1.1.11-97629de \
    cluster-infrastructure="classic openais (with plugin)" \
    expected-quorum-votes=3 \
    stonith-enabled=false \
    no-quorum-policy=ignore \
    default-resource-stickiness=100

```

12、查看节点情况

```

crm(live)# status
Last updated: Wed Sep 23 00:08:39 2015
Last change: Wed Sep 23 00:08:33 2015
Stack: classic openais (with plugin)
Current DC: openstack-control.example.com - partition with quorum
Version: 1.1.11-97629de
3 Nodes configured, 3 expected votes
6 Resources configured

```

Online: [openstack-control.example.com openstack-neutron.example.com openstack-nova.example.com]

mysqlnfs	(ocf::heartbeat:Filesystem):	Started openstack-control.example.com
mysqlvip	(ocf::heartbeat:IPAddr):	Started openstack-control.example.com
mysqlserver	(lsb:mysql):	Started openstack-control.example.com
httpdvip	(ocf::heartbeat:IPAddr):	Started openstack-control.example.com
httpdnfs	(ocf::heartbeat:Filesystem):	Started openstack-control.example.com
httpdserver	(lsb:httpd):	Started openstack-control.example.com





通过如下进行主备切换：

```
node online openstack-neutron.example.com
node standby openstack-neutron.example.com
```

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corosync pacemaker

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