Linux 部署Smartbi Proxy 高可用

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Smartbi Proxy负载均衡服务,为产品提供负载均衡和代理服务。

Keepalived的作用是检测服务器的状态,如果有一台web服务器宕机,或工作出现故障,Keepalived将检测到,并将有故障的服务器从系统中剔除,同时 使用其他服务器代替该服务器的工作,当服务器工作正常后Keepalived自动将服务器加入到服务器群中,这些工作全部自动完成,不需要人工干涉,需要人工做的只是修复故障的服务器。

服务准备:

	IP地址	角色
服务器1	192. 168. 137. 111	smartbi-proxy, keepalived
服务器2	192. 168. 137. 112	smartbi-proxy, keepalived
虚拟IP(VIP)	192. 168. 137. 155	

1、安装Smartbi Proxy

参考 Linux Tocmat部署Smartbi Proxy 在两台服务器上部署好Smartbi Proxy,并确保能正常访问。

2、安装keepalived

1. 环境准备

安装需要基础环境

yum install -y gcc gcc-c++ make openssl-devel

2. 安装keepalived (服务器均需执行)

上传Keepalived安装包到服务器,并解压到指定目录

tar -zxvf keepalived-1.3.6.tar.gz -C /opt

进入解压目录,执行脚本安装Keepalived

cd /opt/keepalived-1.3.6/ ./configure --prefix=/opt/keepalived make && make install

拷贝执行文件

cp /opt/keepalived/sbin/keepalived /usr/sbin/

将keepalived文件拷贝到etc/init.d目录,加入开机启动项

cp /opt/keepalived-1.3.6/keepalived/etc/init.d/keepalived /etc/init.d/keepalived

将keepalived配置文件拷贝到etc下

```
cp /opt/keepalived/etc/sysconfig/keepalived /etc/sysconfig/
```

创建keepalived文件夹

```
mkdir /etc/keepalived
```

将keepalived配置文件拷贝到etc下

```
cp /opt/keepalived/etc/keepalived/keepalived.conf /etc/keepalived/keepalived.conf
```

添加可执行权限

```
chmod +x /etc/init.d/keepalived
```

加入开机启动

```
chkconfig --add keepalived
chkconfig keepalived on
systemctl enable keepalived
```

3. 修改Keepalived配置文件

1. 服务器192.168.137.111相关配置:

```
vi /etc/keepalived/keepalived.conf
```

修改配置参考如下

```
! Configuration File for keepalived
global_defs {
  router_id master #ID
vrrp_script chk_proxy {
  script "/etc/keepalived/proxy_check.sh" #smartbi proxy
   interval 2 #
   weight -20
                        #-20
vrrp_instance smartbi_proxy {
  state MASTER #
interface ens33 #ifconfig IP
  virtual_router_id 51 #id
  priority 100
                   #master
   advert_int 1
   authentication {
      auth_type PASS
      auth_pass 1111
   track_script {
       chk_proxy
                         #smartbi proxy
   virtual_ipaddress {
      192.168.137.155 #VIP IP
```

```
vi /etc/keepalived/proxy_check.sh
```

脚本参考如下:

```
#!/bin/bash
count=$(ps -ef | grep tomcat | egrep -cv "grep|$$")
if [ "$count" -eq 0 ];then
   systemctl stop keepalived
fi
```

脚本添加执行权限

```
\verb|chmod +x /etc/keepalived/proxy_check.sh| \\
```

2..服务器192.168.137.112相关配置:

```
vi /etc/keepalived/keepalived.conf
```

修改配置参考如下

```
! Configuration File for keepalived
global_defs {
  router_id slave1 #ID
vrrp_script chk_proxy {
   script "/etc/keepalived/proxy_check.sh" #smartbi proxy
   interval 2
                        #-20
   weight -20
}
vrrp_instance smartbi_proxy {
  state BACKUP #
interface ens33 #ifconfig IP
   virtual_router_id 51 #id
  priority 90
  advert_int 1
  authentication {
     auth_type PASS
      auth_pass 1111
   track_script {
      chk_proxy
                        #smartbi proxy
   virtual_ipaddress {
       192.168.137.155 #VIP IP
```

创建监控脚本

```
vi /etc/keepalived/proxy_check.sh
```

脚本参考如下:

```
#!/bin/bash
count=$(ps -ef | grep tomcat | egrep -cv "grep|$$")
if [ "$count" -eq 0 ];then
    systemctl stop keepalived
fi
```

脚本添加执行权限

```
chmod +x /etc/keepalived/proxy_check.sh
```

4. 启动Keepalived

登陆两台服务器分别启动Keepalived

```
systemctl start keepalived
```

查看Keepalived运行状态

```
systemctl status keepalived
```

5. 检测Keepalived

1.服务器1中Keepalived配置文件中权重高,所以该服务器成为Keepalived主服务器,拥有VIP地址,通过VIP地址能访问smartbi Proxy。

```
[root@smartbi-2 ~]# ip add
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:0c:29:4c:b3:62 brd ff:ff:ff:ff
    inet 192.168.137.111/24 brd 192.168.137.255 scope global noprefixroute dynamic ens33
        valid_lft 4393811sec preferred_lft 4393811sec
    inet 192.168.137.155/32 scope global ens33
        valid_lft forever preferred_lft forever
    inet6 fe80::4522:63f1:e71a:44f5/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
    inet6 fe80::2353:4fcc:dc22:4da8/64 scope link tentative noprefixroute dadfailed
        valid_lft forever preferred_lft forever
```



- 2. 停止服务器1的smartbi proxy服务,脚本会关闭Keepalived并释放VIP,服务器2将自动获取VIP地址,通过VIP地址依旧能访问smartbi Proxy。
- 3. 重新启动服务器1的smartbi proxy,Keepalived服务,服务器1根据Keepalived配置文件配置,会重新抢占VIP地址。
- 4.关闭两台服务器的smartbi proxy服务,Keepalived主动关闭,无法通过VIP地址访问服务。