# 准备

Keepalive源码下载地址：<http://www.keepalived.org/download.html>

两台CentOS6的虚拟机，master的ip：192.168.220.129，backup的ip：192.168.220.128，虚拟IP：192.168.220.120

# 2.安装ipvsadm（master+backup）

yum install ipvsadm

[root@localhost src]# ipvsadm #说明成功

IP Virtual Server version 1.2.1 (size=4096)

Prot LocalAddress:Port Scheduler Flags

-> RemoteAddress:Port Forward Weight ActiveConn InActConn

可能发生的异常：

[root@localhost src]# yum install ipvsadm

已加载插件：fastestmirror

base | 3.6 kB 00:00

extras | 3.4 kB 00:00

updates | 3.4 kB 00:00:00

Traceback (most recent call last):

File "/usr/libexec/urlgrabber-ext-down", line 75, in <module>

main()

File "/usr/libexec/urlgrabber-ext-down", line 61, in main

fo = PyCurlFileObject(opts.url, opts.filename, opts)

File "/usr/lib/python2.7/site-packages/urlgrabber/grabber.py", line 1258, in \_\_init\_\_

self.\_do\_open()

File "/usr/lib/python2.7/site-packages/urlgrabber/grabber.py", line 1589, in \_do\_open

self.\_do\_grab()

File "/usr/lib/python2.7/site-packages/urlgrabber/grabber.py", line 1723, in \_do\_grab

self.\_do\_perform()

File "/usr/lib/python2.7/site-packages/urlgrabber/grabber.py", line 1517, in \_do\_perform

raise KeyboardInterrupt

KeyboardInterrupt

由于用户取消而退出

解决办法：

Vi /usr/lib/python2.7/site-packages/urlgrabber/grabber.py

跳转到1517行，

elif errcode in (42, 57, \*\*):

改成：

elif errcode == 42:

# 3.安装keepalived（master+keepalive）

## 3.1 安装

tar -zvxf keepalived-1.2.7.tar.gz

cd keepalived-1.2.7

./configure --prefix=/usr --sysconf=/etc

make

make install

实际会报错：

**configure: error:**

**!!! OpenSSL is not properly installed on your system. !!!**

**!!! Can not include OpenSSL headers files. !!!**

## 3.2 安装openssl

yum install openssl-devel

再次执行，报错：

checking for poptGetContext in -lpopt... no

configure: error: Popt libraries is required

## 3.3 安装Popt

yum install popt-devel

出现下面表示安装成功：

Keepalived configuration

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Keepalived version : 1.2.7

Compiler : gcc

Compiler flags : -g -O2

Extra Lib : -lpopt -lssl -lcrypto

Use IPVS Framework : Yes

IPVS sync daemon support : Yes

IPVS use libnl : No

Use VRRP Framework : Yes

Use VRRP VMAC : Yes

SNMP support : No

Use Debug flags : No

# 4. 配置keepalived

## 4.1 配置master（192.168.220.129）

global\_defs {

notification\_email {

xjs250@163.com

}

notification\_email\_from eyun@163.com

smtp\_server 220.181.12.11

smtp\_connect\_timeout 30

router\_id LVS\_DEVEL

}

vrrp\_instance VI\_1 {

state MASTER

interface eth0

virtual\_router\_id 51

priority 100

advert\_int 1

authentication {

auth\_type PASS

auth\_pass 1111

}

virtual\_ipaddress {

192.168.220.120

}

}

virtual\_server 192.168.220.120 80 {

delay\_loop 6

lb\_algo wlc

lb\_kind DR

nat\_mask 255.255.255.0

persistence\_timeout 50

protocol TCP

real\_server 192.168.220.129 80 {

weight 1

TCP\_CHECK {

connect\_timeout 10

nb\_get\_retry 3

connect\_port 80

}

}

real\_server 192.168.220.128 80 {

weight 1

TCP\_CHECK {

connect\_timeout 10

nb\_get\_retry 3

connect\_port 80

}

}

}

## 4.2 配置backup（192.168.220.128）

global\_defs {

notification\_email {

xjs250@163.com

}

notification\_email\_from eyun@163.com

smtp\_server 220.181.12.11

smtp\_connect\_timeout 30

router\_id LVS\_DEVEL

}

vrrp\_instance VI\_1 {

state BACKUP

interface eth0

virtual\_router\_id 51

priority 80

advert\_int 1

authentication {

auth\_type PASS

auth\_pass 1111

}

virtual\_ipaddress {

192.168.220.120

}

}

virtual\_server 192.168.220.120 80 {

delay\_loop 6

lb\_algo wlc

lb\_kind DR

nat\_mask 255.255.255.0

persistence\_timeout 50

protocol TCP

real\_server 192.168.220.129 80 {

weight 1

TCP\_CHECK {

connect\_timeout 10

nb\_get\_retry 3

connect\_port 80

}

}

real\_server 192.168.220.128 80 {

weight 1

TCP\_CHECK {

connect\_timeout 10

nb\_get\_retry 3

connect\_port 80

}

}

}

# 5. 启动keepalive

## 5.1修改系统参数：

Vi /etc/sysctl.conf

net.ipv4.ip\_forward = 1

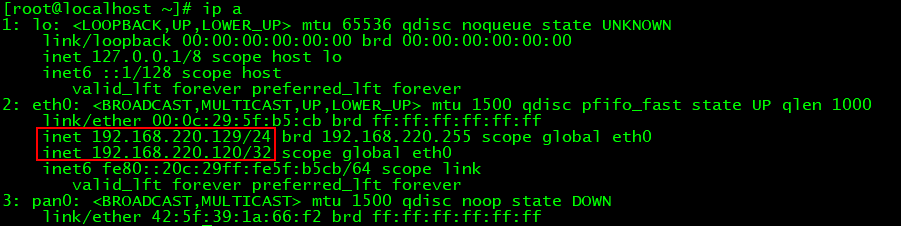
## 5.2 启动keepalive

/etc/rc.d/init.d/keepalived start

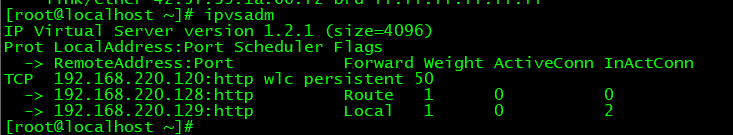
ip a :可以看到所有的ip信息

ipvsadm：可以看到虚拟路由信息和虚拟ip对应的真实ip

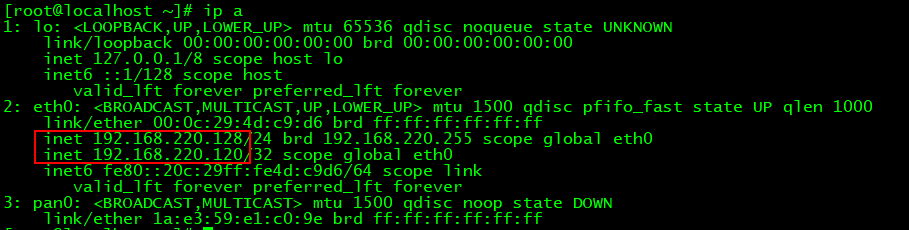
在master上执行：ip a



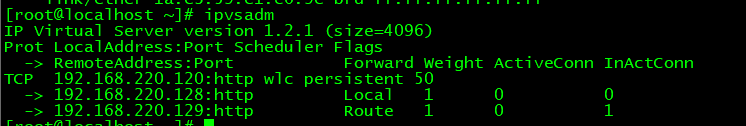
执行：ipvsadm，可以看到120对应的两个真实ip



在backu上执行：ip a



执行：ipvsadm



在master和backup上启动两个web应用，客户端浏览器访问：<http://192.168.220.120/>进行演示。

参考：

<https://www.iyunv.com/thread-155645-1-1.html>

<http://pmghong.blog.51cto.com/3221425/1201533>