文档中集群大体部署如下图所示

逻辑如下图所示：



## 一、LVS+Keepalive集群部署

1. 配置IP

LVS两台服务器都有两个bond，一个配置内网，一个配置外网，安装LVS和Keepalive

LVS1(master)：

bond0:192.168.205.129 gateway:192.168.205.1

bond1:61.161.250.3 gateway:61.161.250.1

LVS2(slave)

bond0:192.168.205.130 gateway:192.168.205.1

bond1:61.161.250.4 gateway:61.161.250.1

对外虚IP：61.161.250.2

RealServer四台，无需安装任务软件

CMS1:192.168.205.101 gateway:192.168.205.1

CMS2:192.168.205.102 gateway:192.168.205.1

CMS3:192.168.205.103 gateway:192.168.205.1

CMS4:192.168.205.104 gateway:192.168.205.1

1. 安装LVS

如能访问外网，直接通过yum install ipvsadm安装

如不能访问，安装ipvsadm-1.26.tar.gz

#tar xzvf ipvsadm-1.26.tar.gz

#cd ipvsadm-1.26

#./install.sh

1. 安装keepalive

#tar xzvf keepalived-1.2.11.tar.gz

#cd keepalived-1.2.11

#./install.sh

#cd /etc/keepalived

LVS1的keepalived.conf文件

global\_defs {

router\_id LVS\_MASTER

}

vrrp\_sync\_group VGM {

group {

VI\_CMS

}

}

vrrp\_instance VI\_CMS {

state MASTER

interface bond1

virtual\_router\_id 54

priority 100

advert\_int 1

authentication {

auth\_type PASS

auth\_pass 1111

}

virtual\_ipaddress {

61.161.250.2

}

virtual\_server 61.161.250.2 6600 {

delay\_loop 6

lb\_algo lc

lb\_kind DR

persistence\_timeout 50

protocol TCP

real\_server 192.168.205.101 6600 {

weight 1

TCP\_CHECK {

connect\_timeout 3

nb\_get\_retry 3

delay\_before\_retry 3

connect\_port 6600

}

}

real\_server 192.168.205.102 6600 {

weight 1

TCP\_CHECK {

connect\_timeout 3

nb\_get\_retry 3

delay\_before\_retry 3

connect\_port 6600

}

}

real\_server 192.168.205.103 6600 {

weight 1

TCP\_CHECK {

connect\_timeout 3

nb\_get\_retry 3

delay\_before\_retry 3

connect\_port 6600

}

}

real\_server 192.168.205.104 6600 {

weight 1

TCP\_CHECK {

connect\_timeout 3

nb\_get\_retry 3

delay\_before\_retry 3

connect\_port 6600

}

}

}

LVS2的keepalived.conf

global\_defs {

router\_id LVS\_BACKUP

}

vrrp\_sync\_group VGB {

group {

VI\_CMS

}

}

vrrp\_instance VI\_CMS {

state BACKUP

interface bond1

virtual\_router\_id 54

priority 90

advert\_int 1

authentication {

auth\_type PASS

auth\_pass 1111

}

virtual\_ipaddress {

61.161.250.2

}

virtual\_server 61.161.250.2 6600 {

delay\_loop 6

lb\_algo lc

lb\_kind DR

persistence\_timeout 50

protocol TCP

real\_server 192.168.205.101 6600 {

weight 1

TCP\_CHECK {

connect\_timeout 3

nb\_get\_retry 3

delay\_before\_retry 3

connect\_port 6600

}

}

real\_server 192.168.205.102 6600 {

weight 1

TCP\_CHECK {

connect\_timeout 3

nb\_get\_retry 3

delay\_before\_retry 3

connect\_port 6600

}

}

real\_server 192.168.205.103 6600 {

weight 1

TCP\_CHECK {

connect\_timeout 3

nb\_get\_retry 3

delay\_before\_retry 3

connect\_port 6600

}

}

real\_server 192.168.205.104 6600 {

weight 1

TCP\_CHECK {

connect\_timeout 3

nb\_get\_retry 3

delay\_before\_retry 3

connect\_port 6600

}

}

}

1. 在四台RealServer编写启动脚本

#vi /usr/bin/realserver

#!/bin/bash

# description: Config realserver lo and apply noarp

CMS\_VIP=61.161.250.2

. /etc/rc.d/init.d/functions

case "$1" in

start)

ifconfig lo:0 $CMS\_VIP netmask 255.255.255.255 broadcast $CMS\_VIP

/sbin/route add -host $CMS\_VIP dev lo:0

echo "1" >/proc/sys/net/ipv4/conf/lo/arp\_ignore

echo "2" >/proc/sys/net/ipv4/conf/lo/arp\_announce

echo "1" >/proc/sys/net/ipv4/conf/all/arp\_ignore

echo "2" >/proc/sys/net/ipv4/conf/all/arp\_announce

sysctl -p >/dev/null 2>&1

echo "RealServer Start OK"

;;

stop)

ifconfig lo:0 down

route del $CMS\_VIP >/dev/null 2>&1

echo "0" >/proc/sys/net/ipv4/conf/lo/arp\_ignore

echo "0" >/proc/sys/net/ipv4/conf/lo/arp\_announce

echo "0" >/proc/sys/net/ipv4/conf/all/arp\_ignore

echo "0" >/proc/sys/net/ipv4/conf/all/arp\_announce

echo "RealServer Stoped"

;;

status)

# Status of LVS-DR real server.

islothere=`/sbin/ifconfig lo:0 | grep $WEB\_VIP`

isrothere=`netstat -rn | grep "lo:0" | grep $web\_VIP`

if [ ! "$islothere" -o ! "isrothere" ];then

# Either the route or the lo:0 device

# not found.

echo "LVS-DR real server Stopped."

else

echo "LVS-DR Running."

fi

;;

\*)

# Invalid entry.

echo "$0: Usage: $0 {start|status|stop}"

exit 1

;;

esac

exit 0

#chmod +x /usr/bin/realserver

将realserver启动，并开机自动启动

#realserver start

#echo “/usr/bin/realserver start” >> /etc/rc.local

1. 在LVS上启动keepalive，查看lvs是否工作正常

#service keepalived start

#watch ipvsadm -ln