#! /bin/bash

nginx\_default\_conf='/etc/nginx/conf.d/default.conf'

keepalived\_conf='/etc/keepalived/keepalived.conf'

nginx\_check\_sh='/etc/keepalived/nginx\_check.sh'

INTERFACE\_NAME=$(ifconfig |awk -F: NR==1'{print $1}');

virtual\_ipaddress='192.168.172.131/24'

PHP\_VERSION='5.6.12'

nginx\_version='7/noarch/RPMS/nginx-release-centos-7-0.el7.ngx.noarch.rpm'

master\_ip='192.168.172.130'

slave\_ip='192.168.172.132'

web\_ip\_1='192.168.172.130:80;'

web\_ip\_2='192.168.172.132:80;'

prompt(){

read -p "请回车==============开始=======$1"

CURRENT\_PATH=$(pwd);

echo "当前路径为==========$CURRENT\_PATH"

history -c

unset CURRENT\_PATH;

clear

}

prompt 'centos7.1实现nginx+keepalived 负载均衡+高可用

http://blog.csdn.net/zhang\_h\_a/article/details/54315142'

web\_ip\_1='192.168.172.130:80;'

web\_ip\_2='192.168.172.130:80;'

function install\_keepalived(){

yum install -y keepalived

}

function install\_make(){

prompt '1安装gcc automake autoconf libtool make：'

yum -y install gcc gcc-c++ make automake autoconf libtool pcre pcre-devel zlib zlib-devel openssl openssl-devel

yum -y install wget

firewall-cmd --zone=public --add-port=81/tcp --permanent

list=''

}

function open\_port(){

list="80 112"

for i in ${list}; do firewall-cmd --zone=public --add-port=${i}/tcp --permanent; done

systemctl restart firewalld

}

function cnf\_nginx(){

cp $nginx\_default\_conf ${nginx\_default\_conf}'.bak'

rm -f $nginx\_default\_conf

cat >>$nginx\_default\_conf <<EOF

upstream web {

ip\_hash;

server ${web\_ip\_1}

server ${web\_ip\_2}

}

server {

listen 80;

index index.php index.html index.htm;

location / {

proxy\_pass http://web;

proxy\_set\_header X-Real-IP \$remote\_addr;

proxy\_set\_header X-Forwarded-For \$proxy\_add\_x\_forwarded\_for;

}

}

EOF

}

function install\_nginx(){

#yum -y install epel-release

install\_make

sudo rpm -Uvh http://nginx.org/packages/centos/${1}

sudo yum install -y nginx

cnf\_nginx

systemctl enable nginx

systemctl start nginx

netstat -ano|grep 80

}

function cnf\_nginx\_check\_sh(){

rm -f $nginx\_check\_sh

cat >>$nginx\_check\_sh <<EOF

#!/bin/bash

A=\`ps -C nginx --no-header |wc -l\`

if [ \$A -eq 0 ];then

systemctl start nginx

sleep 2

if [ \`ps -C nginx --no-header |wc -l\` -eq 0 ];then

systemctl stop keepalived

fi

fi

EOF

}

function cnf\_keepalived(){

install\_keepalived

cp $keepalived\_conf $keepalived\_conf'.bak'

rm -f $keepalived\_conf

cat >>$keepalived\_conf <<EOF

global\_defs {

router\_id ${2}

}

vrrp\_script chk\_nginx {

script "/etc/keepalived/nginx\_check.sh"

interval 2

weight -20

}

vrrp\_instance VI\_1 {

state ${2}

interface ${INTERFACE\_NAME}

virtual\_router\_id 51

mcast\_src\_ip ${1}

priority ${3}

${4}

advert\_int 1

authentication {

auth\_type PASS

auth\_pass 1111

}

track\_script {

chk\_nginx

}

virtual\_ipaddress {

${virtual\_ipaddress}

}

}

EOF

cnf\_nginx\_check\_sh

systemctl enable keepalived

systemctl start keepalived

systemctl status keepalived

}

function cnf\_keepalived\_02(){

cp $keepalived\_conf $keepalived\_conf'.bak'

rm -f $keepalived\_conf

cat >>$keepalived\_conf <<EOF

global\_defs {

notification\_email {

example@163.com

}

notification\_email\_from example@example.com

smtp\_server 127.0.0.1

smtp\_connect\_timeout 30

router\_id MYSQL\_HA

}

vrrp\_instance VI\_1 {

state BACKUP

interface eth1

virtual\_router\_id 50

nopreempt #当主down时，备接管，主恢复，不自动接管

priority 100

advert\_int 1

authentication {

auth\_type PASS

ahth\_pass 123

}

virtual\_ipaddress {

${virtual\_ipaddress} #虚拟IP地址

}

}

virtual\_server ${virtual\_ipaddress} 3306 {

delay\_loop 6

# lb\_algo rr

# lb\_kind NAT

persistence\_timeout 50

protocol TCP

real\_server ${1} 3306 { #监控本机3306端口

weight 1

notify\_down /etc/keepalived/kill\_keepalived.sh #检测3306端口为down状态就执行此脚本（只有keepalived关闭，VIP才漂移 ）

TCP\_CHECK { #健康状态检测方式，可针对业务需求调整（TTP\_GET|SSL\_GET|TCP\_CHECK|SMTP\_CHECK|MISC\_CHECK）

connect\_timeout 3

nb\_get\_retry 3

delay\_before\_retry 3

}

}

}

EOF

}

function install\_httpd(){

yum install httpd -y

systemctl enable httpd

systemctl start httpd

systemctl status httpd

}

function add\_log(){

sed -i '14 s#KEEPALIVED\_OPTIONS="-D"#KEEPALIVED\_OPTIONS="-D -d -S 0"#g' /etc/sysconfig/keepalived

cat /etc/sysconfig/keepalived

}

function main(){

read -p '

1===master

2===slave

3===web\_server

4===add\_log

' number

case ${number} in

1)

install\_nginx {$nginx\_version,}

cnf\_keepalived {${master\_ip},'MASTER',100,''};;

2)

install\_nginx {$nginx\_version,}

cnf\_keepalived {${slave\_ip},'BACKUP',90,'nopreempt'};;

3)

install\_httpd;;

4)

add\_log

esac

}

main

