Nginx调度器及健康检查

#环境：centos7.4虚拟机3台，关闭防火墙、SELinux、清空iptables规则，搭建好yum

#IP地址： proxy：192.168.1.1

Backend1:192.168.1.2

Backend2:192.168.1.3

Client：192.168.1.254（真机）

#配置后台

[root@backend1 ~]# yum -y install httpd mariadb-server

[root@backend1 ~]# echo backend1 >> /var/www/html/index.html

[root@backend1 ~]# systemctl start httpd mariadb

[root@backend1 ~]# mysqladmin -uroot password 123456

[root@backend2 ~]# yum -y install httpd mariadb-server

[root@backend2 ~]# echo backend2 >> /var/www/html/index.html

[root@backend2 ~]# systemctl start httpd mariadb

[root@backend2 ~]# mysqladmin -uroot password 123456

#配置代理服务器

[root@proxy ~]# ls

nginx-1.12.2.tar.gz ngx\_healthcheck\_module.tar.gz

[root@proxy ~]# tar -xf nginx-1.12.2.tar.gz

[root@proxy ~]# yum -y install gcc make pcre-devel openssl-devel

[root@proxy ~]# useradd -s /sbin/nologin nginx

[root@proxy ~]# cd nginx-1.12.2/

[root@proxy nginx-1.12.2]# ./configure --prefix=/usr/local/nginx --user=nginx --group=nginx --with-http\_ssl\_module --with-stream --with-http\_stub\_status\_module --without-http\_autoindex\_module --without-http\_ssi\_module

[root@proxy nginx-1.12.2]# make && make install

#配置nginx

[root@proxy nginx-1.12.2]# cd /usr/local/nginx

[root@proxy nginx]# vim conf/nginx.conf

[root@proxy nginx]# cat conf/nginx.conf | grep -v ^$ | grep -v "#"

user nginx;

worker\_processes auto;

pid logs/nginx.pid;

events {

worker\_connections 65535;

}

stream {

upstream backssh {

server 192.168.1.2:22;

server 192.168.1.3:22;

}

upstream backmysql {

server 192.168.1.2:3306;

server 192.168.1.3:3306;

}

server {

listen 22222;

proxy\_pass backssh;

}

server {

listen 33306;

proxy\_pass backmysql;

}

}

http {

include mime.types;

default\_type application/octet-stream;

log\_format main '$remote\_addr - $remote\_user [$time\_local] "$request" '

'$status $body\_bytes\_sent "$http\_referer" '

'"$http\_user\_agent" "$http\_x\_forwarded\_for"';

sendfile on;

keepalive\_timeout 65;

gzip on;

upstream webs {

server 192.168.1.2:80 weight=1 max\_fails=2 fail\_timeout=10;

server 192.168.1.3:80 weight=2 max\_fails=2 fail\_timeout=10;

}

server {

listen 80;

server\_name localhost;

charset utf-8;

access\_log logs/host.access.log main;

location / {

proxy\_pass http://webs/;

}

error\_page 404 /404.html;

error\_page 500 502 503 504 /50x.html;

location = /50x.html {

root html;

}

}

}

[root@proxy nginx]# echo "页面丢失了" >> html/404.html

[root@proxy nginx]# ./sbin/nginx -t

nginx: the configuration file /usr/local/nginx/conf/nginx.conf syntax is ok

nginx: configuration file /usr/local/nginx/conf/nginx.conf test is successful

[root@proxy nginx]# ./sbin/nginx

[root@proxy nginx]# netstat -antpu | grep nginx

tcp 0 0 0.0.0.0:22222 0.0.0.0:\* LISTEN 4211/nginx: master

tcp 0 0 0.0.0.0:80 0.0.0.0:\* LISTEN 4211/nginx: master

tcp 0 0 0.0.0.0:33306 0.0.0.0:\* LISTEN 4211/nginx: master

[root@proxy nginx]#

#测试代理

#测试7层web代理

[root@hostos ~]# curl http://192.168.1.1

backend2

[root@hostos ~]# curl http://192.168.1.1

backend1

#测试4层ssh代理

[root@hostos ~]# ssh -p 22222 192.168.1.1 "hostname" 2> /dev/null

backend2.tedu.cn

[root@hostos ~]# ssh -p 22222 192.168.1.1 "hostname" 2> /dev/null

backend1.tedu.cn

#测试4层mysql代理

[root@backend1 ~]# mysql -hlocalhost -uroot -p123456 << EOF

> grant all on \*.\* to root@'%' identified by '123456' with grant option;

> delete from mysql.user where password=’’;

> flush privileges;

> EOF

[root@backend2 ~]# mysql -hlocalhost -uroot -p123456 << EOF

> grant all on \*.\* to root@'%' identified by '123456' with grant option;

> delete from mysql.user where password=’’;

> flush privileges;

> EOF

[root@hostos ~]# mysql -h192.168.1.1 -uroot -p123456 -P33306 -e "select @@hostname" 2> /dev/null

+------------------+

| @@hostname |

+------------------+

| backend1.tedu.cn |

+------------------+

[root@hostos ~]# mysql -h192.168.1.1 -uroot -p123456 -P33306 -e "select @@hostname" 2> /dev/null

+------------------+

| @@hostname |

+------------------+

| backend2.tedu.cn |

+------------------+

#测试健康检查