HAproxy 서버 구축.md 2022. 5. 9.

HAproxy 서버 구축

구축 목적

: 2개의 WEB서버의 트래픽을 효율적으로 분산하기 위하여 (로드밸런싱)

ΙP

VIP: 172.17.124.240 - Keepalived HA 1: 172.17.124.241 HA 2: 172.17.124.242 WEB 1: 172.17.124.243 WEB 2: 172.17.124.244

완전 기본서버일때만 설정

기본 네트워크 설정

```
# vi /etc/sysconfig/network-scripts/ifcfg-eth0

ex)
TYPE=Ethernet
BOOTPROTO=static
NAME=eth0
DEVICE=eth0
ONBOOT=yes
IPADDR=172.17.124.241
GATEWAY=172.17.124.1
NETMASK=255.255.255.0
# vi /etc/resolv.conf
nameserver 8.8.8.8
```

기본 시간 설정

```
# yum -y install ntp
# vi /etc/ntp.conf
21 server time.google.com iburst
( 나머지 server 설정 삭제 - google에 ntp서버에서 시간정보 받아오기 )

# systemctl restart ntpd
# systemctl status ntpd
# systemctl enable ntpd
# ntpq -p ( 잘 들어갔는지 확인 )
# date ( 확인 )
```

```
# yum -y install gcc openssl openssl-devel pcre-static pcre-devel systemd-devel
# yum -y install wget
# mkdir /HAproxy
# cd /HAproxy
# wget http://www.haproxy.org/download/2.5/src/haproxy-2.5.1.tar.gz
( haproxy 공식 홈페이지에서 버전 확인후 링크 주소 복사 )
# tar xvfs haproxy-2.5.1.tar.gz
# cd haproxy-2.5.1
# make TARGET=linux-glibc USE_OPENSSL=1 USE_PCRE=1 USE_ZLIB=1 USE_SYSTEMD=1
# make install
# curl "http://git.haproxy.org/?p=haproxy-
2.3.git;a=blob plain;f=contrib/systemd/haproxy.service.in" -o
/etc/systemd/system/haproxy.service
# vi /etc/systemd/system/haproxy.service
ExecStartPre=/usr/local/sbin/haproxy -f $CONFIG -c -q $EXTRAOPTS
ExecStart=/usr/local/sbin/haproxy -Ws -f $CONFIG -p $PIDFILE $EXTRAOPTS
ExecReload=/usr/local/sbin/haproxy -f $CONFIG -c -q $EXTRAOPTS
(해당 부분 수정)
# mkdir /etc/haproxy
# mkdir /etc/haproxy/certs
# mkdir /etc/haproxy/errors
# mkdir /var/log/haproxy
# cd ./examples/errorfiles/
# cp ./*.http /etc/haproxy/errors
# useradd -c "HAproxy Daemon User" -s /sbin/nologin haproxy
# tail -1 /etc/passwd
# vi /etc/rsyslog.d/haproxy.conf
$ModLoad imudp
$UDPServerAddress 127.0.0.1
$UDPServerRUN 514
local0.* /var/log/haproxy/haproxy traffic.log
# vi /etc/logrotate.d/haproxy
/var/log/haproxy/haproxy_traffic.log {
        daily
        rotate 30
        create 0600 root root
        compress
        notifempty
        missingok
        postrotate
                /bin/systemctl restart rsyslog.service > /dev/null 2> /dev/null ||
true
```

```
endscript
# vi /etc/haproxy/haproxy.cfg
global
    daemon
   maxconn 4000
   user haproxy
    group haproxy
    log 127.0.0.1:514 local0
defaults
   mode http
    option redispatch
    retries 3
    log global
    option httplog
    option dontlognull
    option dontlog-normal
    option http-server-close
    option forwardfor
maxconn 3000
    timeout connect 10s
    timeout http-request 10s
    timeout http-keep-alive 10s
    timeout client 1m
    timeout server 1m
    timeout queue 1m
    errorfile 400 /etc/haproxy/errors/400.http
    errorfile 403 /etc/haproxy/errors/403.http
    errorfile 408 /etc/haproxy/errors/408.http
    errorfile 500 /etc/haproxy/errors/500.http
    errorfile 502 /etc/haproxy/errors/502.http
    errorfile 503 /etc/haproxy/errors/503.http
    errorfile 504 /etc/haproxy/errors/504.http
frontend proxy
    bind *:80
    default_backend WEB_SRV_list
backend WEB SRV list
    balance roundrobin
    option httpchk HEAD /
    http-request set-header X-Forwarded-Port %[dst_port]
    #cookie SRVID insert indirect nocache maxlife 10m
    #server WEB_01 172.17.124.243:80 cookie WEB_01 check inter 3000 fall 5 rise 3
    #server WEB 02 172.17.124.244:80 cookie WEB 02 check inter 3000 fall 5 rise 3
    server WEB_01 172.17.124.243:80 check inter 3000 fall 5 rise 3
    server WEB_02 172.17.124.244:80 check inter 3000 fall 5 rise 3
```

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TEST

1. WEB에서 HAproxy 주소를 입력하였을때 정상적으로 로드밸런싱 되는지 확인

★ 정상적으로 작동된다면 HAproxy 구축 완료!★

참조

- https://cbonte.github.io/haproxy-dconv/2.3/configuration.html#3.1
- https://www.haproxy.com/blog/the-four-essential-sections-of-an-haproxy-configuration/