

HA proxy Installation and configuration

172.16.118.213 mta1.jalindia.co.in
172.16.118.214 mta2.jalindia.co.in
172.16.118.211 haproxy1.jalindia.co.in
172.16.118.212 haproxy2.jalindia.co.in
172.16.118.232 Virtual IP

Reference Doc -

https://wiki.zimbra.com/wiki/Zimbra_Proxy_HA

Configure Local repo

Add below entry in /etc/hosts

172.16.118.213 mta1.jalindia.co.in
172.16.118.214 mta2.jalindia.co.in
172.16.118.211 haproxy1.jalindia.co.in
172.16.118.212 haproxy2.jalindia.co.in

Install HA proxy package

- 1. yum install haproxy**

Install keepalived package

- 1. yum install keepalived**

Move existing haproxy file to .bkp

- 1. mv /etc/haproxy/haproxy.conf
/etc/haproxy/haproxy.conf.bkp**

Create new file

- 1. vi /etc/haproxy/haproxy.conf**

Add below configuration

global

**log /dev/log local0
log /dev/log local1 notice
chroot /var/lib/haproxy
stats socket /run/admin.sock mode 660 level admin
stats timeout 30s
user haproxy
group haproxy
daemon
tune.ssl.default-dh-param 2048**

defaults

**log global
mode http
option httplog
option dontlognull
option http-server-close
option forwardfor
timeout connect 5000ms
timeout client 50000ms
timeout server 50000ms**

frontend https-in

**bind *:443 ssl crt /etc/haproxy/certs/bundle.pem
default_backend nginx-backend**

backend nginx-backend

**balance roundrobin
http-request add-header X-Forwarded-Proto https
http-request add-header X-Forwarded-Port 443
option forwardfor
http-response add-header Cache-Control no-cache
cookie SERVER_USED insert indirect nocache
server nginx1 172.16.118.213:443 check ssl verify none
server nginx2 172.16.118.214:443 check ssl verify none**

frontend smtp
bind *:25
mode tcp
log global
option tcplog
default_backend bk_smtp

backend bk_smtp
mode tcp
log global
balance leastconn
option tcplog
server mta1 172.16.118.213:25 check port 25
server mta2 172.16.118.214:25 check port 25

frontend submission
bind *:587
mode tcp
default_backend bk_submission

backend bk_submission
mode tcp
server submit1 172.16.118.213:587 check port 587
server submit2 172.16.118.214:587 check port 587

frontend imap
bind *:143
mode tcp
default_backend bk_imap

backend bk_imap
mode tcp
balance leastconn
server imap1 172.16.118.213:143 check port 143
server imap2 172.16.118.214:143 check port 143

```
frontend pop3
    bind *:110
    mode tcp
    default_backend bk_pop3s
```

```
backend bk_pop3s
    mode tcp
    balance leastconn
    stick store-request src
    stick-table type ip size 200k expire 30m
    server pop3s1 172.16.118.213:995 check port 995
    server pop3s2 172.16.118.214:995 check port 995
```

```
mv existing keepalived configuration file to .bkp
1. mv /etc/keepalived/keepalived.conf
   /etc/keepalived/keepalived.conf.bkp
```

Create new conf file

```
1. vi /etc/keepalived/keepalived.conf
```

Add below configuration

```
[root@ha2 ~]# cat /etc/keepalived/keepalived.conf
global_defs {
    router_id ha2
}

vrrp_script haproxy_healthcheck {
    script "/usr/bin/pgrep haproxy"
    interval 2
    weight -2
    fall 2
    rise 2
}

vrrp_instance VI_1 {
    state MASTER
    interface ens33
    virtual_router_id 51
    priority 101
    advert_int 1
    authentication {
        auth_type PASS
        auth_pass redhat
    }
    virtual_ipaddress {
        10.1.100.7
    }
    track_script {
        haproxy_healthcheck
    }
}

[root@ha2 ~]# █
```

Change 10.1.100.7 to our virtual IP 172.16.118.232

Generate certificates via openssl command

and change ssl file path in haproxy configuration file

Restart service

systemctl restart keepalived haproxy

systemctl status keepalived haproxy
