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HA Proxy

Install

```
yum install haproxy
```

Configure

Edit /etc/haproxy/haproxy.cfg

```
frontend apache
    mode tcp
    bind 172.19.65.206:80
    default_backend apache-servers

backend apache-servers
    balance roundrobin
    mode tcp
    server apache1 172.19.65.207:80
```

Execute:

```
systemctl enable haproxy
systemctl start haproxy

firewall-cmd --permanent --add-service=http
firewall-cmd --permanent --add-service=https
firewall-cmd --reload
```

Configure rsyslog

Edit /etc/rsyslog.conf

```
# Provides UDP syslog reception
$UDPServerAddress 127.0.0.1
$ModLoad imudp
$UDPServerRun 514

# Save logs for haproxy global configs
local2.* /var/log/haproxy.log

# Save logs for haproxy lapoc frontend
local0.* /var/log/haproxy-apache.log
```

Execute:

```
systemctl restart rsyslog
```

Subdomain configuration

Edit /etc/haproxy/haproxy.cfg

```
frontend lapoc
    log 127.0.0.1 local0 debug
    option httplog
    option forwardfor
    mode http
    bind 172.19.65.206:80
    acl apache_sub hdr(host) -i apache.gbmdc.dc
    acl tomcat_sub hdr(host) -i tomcat.gbmdc.dc
    use_backend apache-servers if apache_sub
    use_backend tomcat-servers if tomcat_sub

backend apache-servers
    mode http
    option httplog
    option forwardfor
    server apache1 172.19.65.207:80

backend tomcat-servers
    mode http
    option httplog
    option forwardfor
    server tomcat1 172.19.65.207:8080
```

Enable stats

Edit /etc/haproxy/haproxy.cfg

```
listen stats
    bind *:9000
    stats enable
    stats uri /
    stats refresh 5s
    stats auth cmorun:Manager20.
```

Execute:

```
firewall-cmd --permanent --add-port=9000/tcp
```

Upgrade to HA Proxy 1.8

```
yum-config-manager --enable rhel-server-rhsc1-7-rpms
yum install rh-haproxy18
```

You can use this commando to enable in the session:

```
scl enable rh-haproxy18 bash
```

You need to change the file `/etc/opt/rh/rh-haproxy18/haproxy/haproxy.cfg` to reflect changes.

Execute:

```
systemctl disable haproxy
systemctl stop haproxy
systemctl enable rh-haproxy18-haproxy
systemctl start rh-haproxy18-haproxy
```

References

- <https://www.serverlab.ca/tutorials/linux/network-services/layer-4-load-balancing-with-haproxy/>
- <https://www.haproxy.com/blog/introduction-to-haproxy-logging/>
- <https://blog.entrostat.com/routing-multiple-domains-using-haproxy-http-and-https-ssl/>
- <https://freedif.org/redirect-a-subdomain-to-a-vm-with-haproxy>

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