

# HAProxy

## Offical Sites

- Home: <http://www.haproxy.org/>
- Forum: <https://discourse.haproxy.org/>

## Installation

- [Install HAProxy on Debian or Ubuntu](#)
- [Run HAProxy as a Docker container](#)

```
# RedHat 8.3
yum install haproxy
```

## Setting Up HAProxy Logging

The default configuration points to the **localhost (127.0.0.1)** and **local2** is the default facility code used to identify HAProxy log messages under **rsyslog**.

/etc/rsyslog.d/haproxy.conf

```
$ModLoad imudp
$UDPServerAddress 127.0.0.1
$UDPServerRun 514
local2.*      /var/log/haproxy/haproxy-traffic.log
local2.notice /var/log/haproxy/haproxy-admin.log
```

Create the directories required

```
mkdir /var/log/haproxy
```

Restart the rsyslog

```
systemctl restart rsyslog
```

# Configuring HAProxy

- [HAProxy Configuration Basics: Load Balance Your Servers](#)

Edit the file `/etc/haproxy/haproxy.cfg` .

## HAProxy Stats page

```
listen stats
  bind *:9000
  stats enable
  stats hide-version
  stats uri /stats
  stats admin if LOCALHOST
  stats auth haproxy:Lostp@1ss
```

## AP Servers

```
listen apservers_20013
  bind *:20013
  mode tcp
  timeout client 10800s
  timeout server 10800s
  balance roundrobin
  server tpemimsaw00 10.10.2.33:20013 check
  server tpemimsaw01 10.10.2.32:20013 check
```

## Restart the haproxy

```
systemctl restart haproxy
```

# Setup Logrotate

`/etc/logrotate.d/haproxy`

```
/var/log/haproxy/haproxy*.log {
  daily
  rotate 10
  missingok
  notifempty
```

```

compress
dateext
size 10M
sharedscripts
postrotate
    /bin/kill -HUP `cat /var/run/syslogd.pid 2> /dev/null` 2> /dev/null || true
    /bin/kill -HUP `cat /var/run/rsyslogd.pid 2> /dev/null` 2> /dev/null || true
endscript
}

```

## Advanced Configurations

### balance

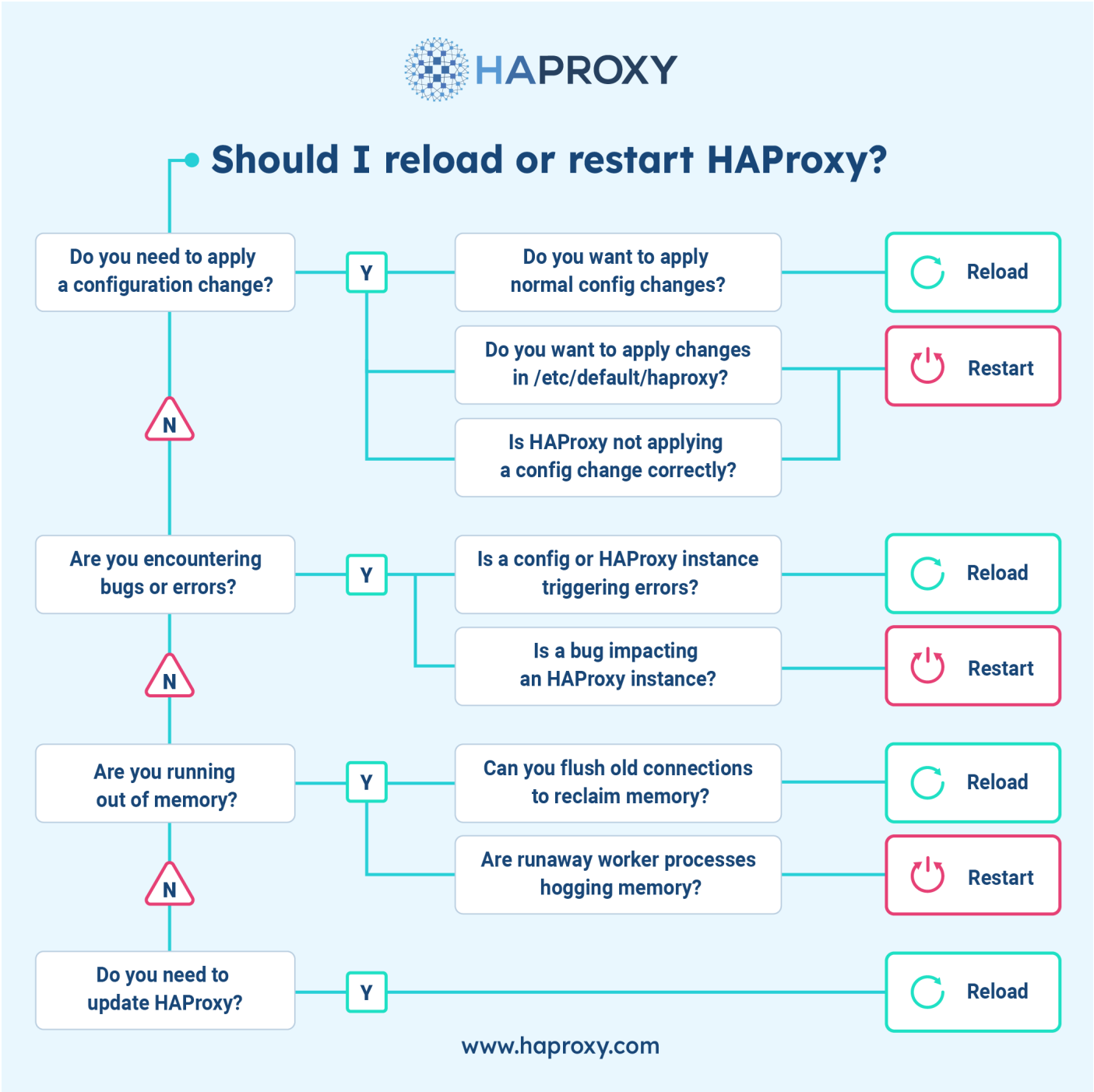
- roundrobin  
 ?? server ??? weight ??? servers????? algorithm?server weight ??? instance  
 slow start ?????????? algorithm ??? backend ????? 4095 ? active server  
 nodes????? server node ? down ?????? active????????? requests ?????? join ??  
 server farm?
  - static-rr  
 ?? server ?? weight ??? server??? roundrobin???? weight ?????? active server  
 node ?????????
  - leastconn  
 ?????????? server????? connection ??? server????? tcp session  
 ?????????????? LDAP, SQL, etc...????????? HTTP ??? sesion time ? protocol?
  - first  
 server nodes ?????????????? server????? server ?????????? maxconn ??????????  
 server????????????? maxconn ???
  - source  
 source IP address ? hashed ??? total weight of running serer?????????????????  
 server????????? client IP ? traffic ?????? server??? server nodes ?????????????????  
 hash??? clients ?????? servers?
  - uri  
 ?? uri ? ? ?????????? uri ?? hash????????? uri ?????? server????????? proxy  
 caches ? anti-virus proxyies????? cache hit rate?
- ??? optinal parameter: len ? depth?len ??? uri ?????????? uri ??? / ?????????? len  
 ??? 1?
- depth ??? hash ? maxmimum directory depth????? / ?????? depth?
  - url\_param  
 ?? HTTP Get request URL ?????????????? "check\_post"????? POST request ??????
  - hdr(name)  
 ?????? name ? HTTP header ???

- optional ?? "use\_domain\_only" ????? header ? Host ?????? Host ? "haproxy.1wt.eu" ?????? "1wt"
- rdp-cookie, rdp-cookie(name)  
????? cookie????? session ID????? session ID ????? roundrobin algorithm?

## SSL Configuration

- [How to Configure a CA SSL Certificate in HAProxy](#)

## Restart or Reload



# Learning

- [How to install and configure HAProxy on RHEL 7](#)
- [How to install HAProxy load balancer on CentOS](#)
- [Install HAProxy Load Balancer on CentOS / RHEL 8](#)
- [How to Setup HAProxy as Load Balancer for Nginx on CentOS 8](#)
- [How to Install HAProxy on Debian 11](#)
- [MySQL Load Balancing with HAProxy](#)
- [High-Availability MySQL cluster with load balancing using HAProxy and Heartbeat.](#)
- [PostgreSQL HAProxy: Proxy for HA and Load Balance](#)
- [??????](#)
- [How to Run HAProxy with Docker](#)

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