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 ???

- optonal ?? "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
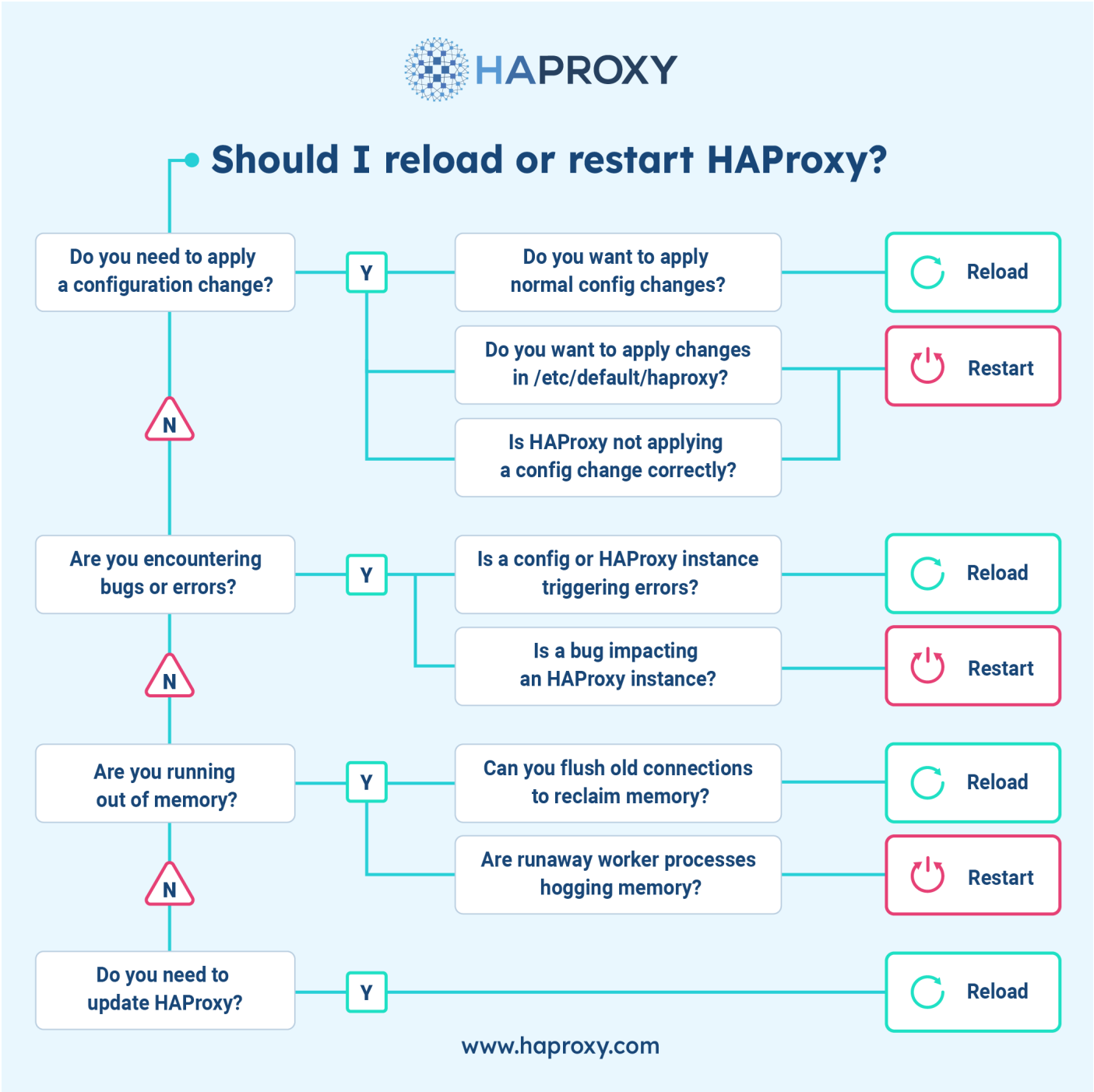
Learning

- 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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