HAProxy configuration for JumpServer HA-cluster

HAProxy (High Availability Proxy) — is an **open-source software tool** used for load balancing and traffic proxying at the network protocol level, typically employed to distribute traffic across multiple servers. It is one of the most popular solutions for enhancing the availability and performance of web applications and services.

To install HAProxy on Ubuntu:

```
sudo apt install haproxy -y
```

After installation, you need to edit the configuration file, which is the main aspect of setting up HAProxy. The configuration file is typically located at **/etc/haproxy/haproxy.cfg**.

Example Configuration File from the Vendor's Documentation:

```
global
    log         127.0.0.1 local2
    chroot      /var/lib/haproxy
    pidfile     /var/run/haproxy.pid
    maxconn     4000
    user        haproxy
    group       haproxy
    daemon
    stats socket /var/lib/haproxy/stats

defaults
    log                 global
    option              dontlognull
    option              redispatch
    retries             3
    timeout http-request    10s
    timeout queue           1m
    timeout connect         10s
    timeout client          1m
    timeout server          1m
    timeout http-keep-alive 10s
    timeout check           10s
    maxconn             3000

listen stats
    bind *:8080
    mode http
```

```
    stats enable
    stats uri /haproxy
    stats refresh 5s
    stats realm haproxy-status
    stats auth admin:password


listen jms-web
    bind *:80
    mode http
    option httpchk GET /api/health/
    stick-table type ip size 200k expire 30m
    stick on src
    balance leastconn
    server 192.168.100.21 192.168.100.21:80 weight 1 cookie web01 check inter 2s rise 2 fall 3
    server 192.168.100.22 192.168.100.22:80 weight 1 cookie web02 check inter 2s rise 2 fall 3
```

After modifying the configuration file, restart and enable HAProxy:

```
systemctl enable haproxy
systemctl start haproxy
```