



# **HAProxy Data Collector**

## **Cloud Insights**

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# Table of Contents

- HAProxy Data Collector ..... 1
  - Installation ..... 1
  - Setup ..... 2
  - Objects and Counters ..... 4
  - Troubleshooting ..... 6

# HAProxy Data Collector

Cloud Insights uses this data collector to gather metrics from HAProxy.

## Installation

1. From **Admin > Data Collectors**, click **+Data Collector**. Under **Services**, choose HAProxy.  
  
Select the Operating System or Platform on which the Telegraf agent is installed.
2. If you haven't already installed an Agent for collection, or you wish to install an Agent for a different Operating System or Platform, click *Show Instructions* to expand the [Agent installation](#) instructions.
3. Select the Agent Access Key for use with this data collector. You can add a new Agent Access Key by clicking the **+ Agent Access Key** button. Best practice: Use a different Agent Access Key only when you want to group data collectors, for example, by OS/Platform.
4. Follow the configuration steps to configure the data collector. The instructions vary depending on the type of Operating System or Platform you are using to collect data.



## HAProxy Configuration

Gathers HAProxy metrics.

### What Operating System or Platform Are You Using?

[Need Help?](#)

Ubuntu & Debian

### Select existing Agent Access Key or create a new one

Default (405fb5ec-d4cb-4404-977b-71fa931e1ad3)

+ Agent Access Key

\*Please ensure that you have a Telegraf Agent in you environment before configuring [Show Instructions](#)

### Follow Configuration Steps

[Need Help?](#)

- 1 Ensure that the HAProxy system you're going to gather metrics on has 'stats enable' option. For details refer to the following [document](#).
- 2 Copy the contents below into a new .conf file under the /etc/telegraf/telegraf.d/ directory. For example, copy the contents to the /etc/telegraf/telegraf.d/cloudinsights-haproxy.conf file.

```
# Read metrics of HAProxy, via socket or HTTP stats page
[[inputs.haproxy]]
  ## An array of address to gather stats about. Specify an ip on hostname
  ## with optional port. ie localhost, 10.10.3.33:1936, etc.
  ## Make sure you specify the complete path to the stats endpoint
  ## <INSERT_HAPROXY_ADDRESS> is http://10.10.3.33:1936/haproxy?stats
```

- 3 Replace <INSERT\_HAPROXY\_ADDRESS> with the applicable HAProxy server address. Please specify a real machine address, and refrain from using a loopback address.
- 4 Replace <INSERT\_HAPROXY\_PORT> with the applicable HAProxy server port.
- 5 Modify the 'haproxy?stats' path in accordance to the HAProxy server configuration.
- 6 Modify 'username' and 'password' in accordance to the HAProxy server configuration (if credentials are required).
- 7 Modify 'Namespace' if needed for server disambiguation (to avoid name clashes).
- 8 Restart the Telegraf service.

```
systemctl restart telegraf
```

## Setup

Telegraf's plugin for HAProxy relies on HAProxy Stats enablement. This is a configuration built into HAProxy but it is not enabled out of the box. When enabled, HAProxy will expose an HTML endpoint that can be viewed

on your browser or scraped for extraction of status of all HAProxy configurations.

### Compatibility:

Configuration was developed against HAProxy version 1.9.4.

### Setting Up:

To enable stats, edit your haproxy configuration file and add the the following lines after the 'defaults' section, using your own user/password and/or haproxy URL:

```
stats enable
stats auth myuser:mypassword
stats uri /haproxy?stats
```

The following is a simplified example configuration file with stats enabled:

```
global
  daemon
  maxconn 256

defaults
  mode http
  stats enable
  stats uri /haproxy?stats
  stats auth myuser:mypassword
  timeout connect 5000ms
  timeout client 50000ms
  timeout server 50000ms

frontend http-in
  bind *:80
  default_backend servers

frontend http-in9080
  bind *:9080
  default_backend servers_2

backend servers
  server server1 10.128.0.55:8080 check ssl verify none
  server server2 10.128.0.56:8080 check ssl verify none

backend servers_2
  server server3 10.128.0.57:8080 check ssl verify none
  server server4 10.128.0.58:8080 check ssl verify none
```

For complete and up to date instructions, see the [HAProxy documentation](#).

## Objects and Counters

The following objects and their counters are collected:

Object:	Identifiers:	Attributes:	Datapoints:
HAProxy Frontend	Namespace Address Proxy	Node IP Node Name Proxy ID Mode Process id Sessions Rate Limit Server id Sessions Limit Status	Bytes In Bytes Out Cache Hits Cache Lookups Compression Bytes Bypassed Compression Bytes In Compression Bytes Out Compression Responses Connection Rate Connection Rate Max Connections Total Requests Denied by Connection Rule Requests Denied by Security Concerns Responses Denied by Security Concerns Requests Denied by Session Rule Requests Errors Responses 1xx Responses 2xx Responses 3xx Responses 4xx Responses 5xx Responses Other Requests Intercepted Sessions Rate Sessions Rate Max Requests Rate Requests Rate Max Requests Total Sessions Sessions Max Sessions Total Requests Rewrites

<b>Object:</b>	<b>Identifiers:</b>	<b>Attributes:</b>	<b>Datapoints:</b>
HAProxy Server	Namespace Address Proxy Server	Node IP Node Name Check Time to Finish Check Fall Configuration Check Health Value Check Rise Configuration Check Status Proxy ID Last Change Time Last Session Time Mode Process id Server id Status Weight	Active Servers Backup Servers Bytes In Bytes Out Check Downs Check Fails Client Aborts Connections Connection Average Time Downtime Total Denied Responses Connection Errors Response Errors Responses 1xx Responses 2xx Responses 3xx Responses 4xx Responses 5xx Responses Other Server Selected Total Queue Current Queue Max Queue Average Time Sessions per Second Sessions per Second Max Connection Reuse Response Time Average Sessions Sessions Max Server Transfer Aborts Sessions Total Sessions Total Time Average Requests Redispatches Requests Retries Requests Rewrites

<b>Object:</b>	<b>Identifiers:</b>	<b>Attributes:</b>	<b>Datapoints:</b>
HAProxy Backend	Namespace Address Proxy	Node IP Node Name Proxy ID Last Change Time Last Session Time Mode Process id Server id Sessions Limit Status Weight	Active Servers Backup Servers Bytes In Bytes Out Cache Hits Cache Lookups Check Downs Client Aborts Compression Bytes Bypassed Compression Bytes In Compression Bytes Out Compression Responses Connections Connection Average Time Downtime Total Requests Denied by Security Concerns Responses Denied by Security Concerns Connection Errors Response Errors Responses 1xx Responses 2xx Responses 3xx Responses 4xx Responses 5xx Responses Other Server Selected Total Queue Current Queue Max Queue Average Time Sessions per Second Sessions per Second Max Requests Total Connection Reuse Response Time Average Sessions Sessions Max Server Transfer Aborts Sessions Total Sessions Total Time Average Requests Redispatches Requests Retries Requests Rewrites

## Troubleshooting

Additional information may be found from the [Support](#) page.



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