HAProxy Data Collector

Cloud Insights

Tony Lavoie February 14, 2020

 $This\ PDF\ was\ generated\ from\ https://docs.netapp.com/us-en/cloudinsights/task_config_telegraf_haproxy.html\ on\ April\ 25,\ 2020.\ Always\ check\ docs.netapp.com\ for\ the\ latest.$



Table of Contents

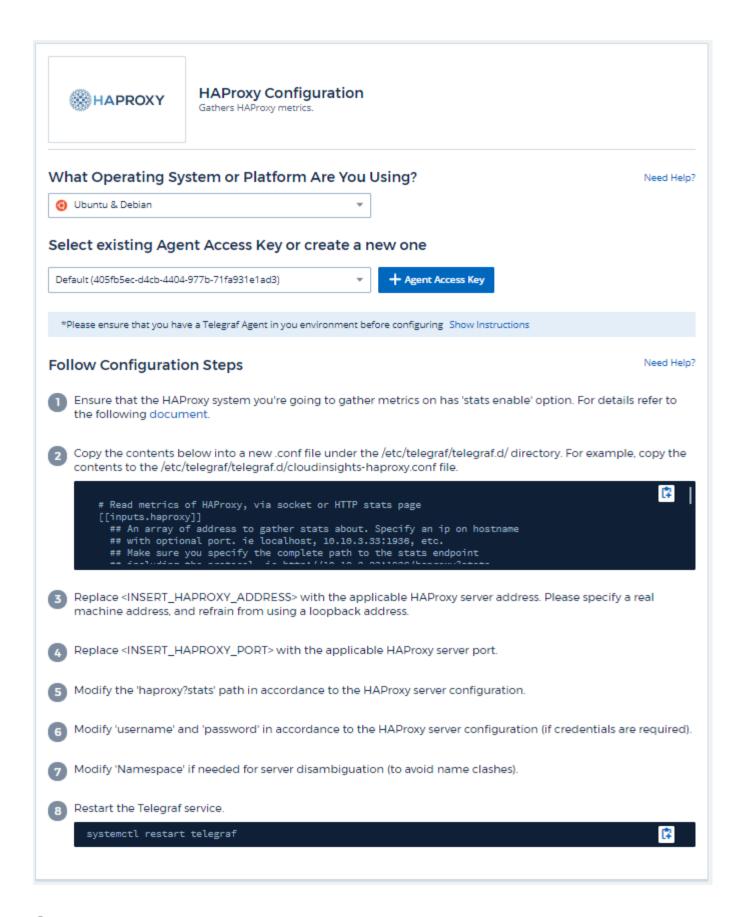
H	IAProxy Data Collector	l
	Installation	1
	Setup	2
	Objects and Counters.	1
	Troubleshooting	

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.



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	Node IP	Bytes In
	Address	Node Name	Bytes Out
	Proxy	Proxy ID	Cache Hits
		Mode	Cache Lookups
		Process id	Compression Bytes
		Sessions Rate Limit	Bypassed
		Server id	Compression Bytes In
		Sessions Limit	Compression Bytes Out
		Status	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

Object:	Identifiers:	Attributes:	Datapoints:
HAProxy Server	Namespace	Node IP	Active Servers
	Address	Node Name	Backup Servers
	Proxy	Check Time to Finish	Bytes In
	Server	Check Fall Configuration	Bytes Out
		Check Health Value	Check Downs
		Check Rise	Check Fails
		Configuration	Client Aborts
		Check Status	Connections
		Proxy ID	Connection Average
		Last Change Time	Time
		Last Session Time	Downtime Total
		Mode	Denied Responses
		Process id	Connection Errors
		Server id	Response Errors
		Status	Responses 1xx
		Weight	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
			Requests Rewilles

Object:	Identifiers:	Attributes:	Datapoints:
HAProxy Backend	Namespace	Node IP	Active Servers
	Address	Node Name	Backup Servers
	Proxy	Proxy ID	Bytes In
		Last Change Time	Bytes Out
		Last Session Time	Cache Hits
		Mode	Cache Lookups
		Process id	Check Downs
		Server id	Client Aborts
		Sessions Limit	Compression Bytes
		Status	Bypassed
		Weight	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

Troubleshooting

Additional information may be found from the Support page.

Copyright Information

Copyright © 2019–2020 NetApp, Inc. All rights reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means-graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval systemwithout prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

Trademark Information

NETAPP, the NETAPP logo, and the marks listed at http://www.netapp.com/TM are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.