Integrate HAProxy
EventTracker v8.x and above

Publication Date: July 20, 2017
Abstract

This guide provides instructions to configure HAProxy to send the syslog to EventTracker Enterprise. Once syslog is configured to send to EventTracker Manager, alerts and reports can be configured into EventTracker.

Scope

The configurations detailed in this guide are consistent with EventTracker Enterprise version 8.x and later, HAProxy 1.7.5 and later.

Audience

Administrators who are responsible for monitoring HAProxy which are running the operating system using EventTracker Manager.
# Table of Contents

Abstract ........................................................................................................................................................................ 1  
Scope ........................................................................................................................................................................ 1  
Audience .................................................................................................................................................................. 1  
HAProxy ........................................................................................................................................................................ 3  
Prerequisites ................................................................................................................................................................ 3  
Configure HAProxy to send syslog to EventTracker .................................................................................................. 3  
EventTracker Knowledge Pack .................................................................................................................................... 4  
   Flex Reports ............................................................................................................................................................. 4  
Import HAProxy knowledge pack into EventTracker ................................................................................................ 7  
   Token Templates ..................................................................................................................................................... 8  
   Flex Reports ....................................................................................................................................................... 9  
Verify HAProxy knowledge pack in EventTracker .................................................................................................... 10  
   Token Template ................................................................................................................................................ 10  
   Flex Reports ............................................................................................................................................... 11  
Create Flex Dashboards in EventTracker .................................................................................................................... 12  
   Schedule Reports ............................................................................................................................................. 12  
   Create Dashlets ............................................................................................................................................. 14  
   Sample Flex Dashboards ................................................................................................................................. 18
**Integrate HAProxy**

HAProxy is a free, very fast and reliable solution offering high availability, load balancing, and proxying for TCP and HTTP-based applications. It is particularly suited for very high traffic web sites and powers quite a number of the world's most visited ones. Over the years, it has become the de-facto standard open source load balancer. Since it does not advertise itself, we only know it's used when the admins report it. Its mode of operation makes its integration into existing architectures very easy and riskless, while still offering the possibility not to expose fragile web servers to the net.

**Prerequisites**

- EventTracker v8.x should be installed.
- HAProxy is known to reliably run on the following OS/Platforms:
  - Linux 2.4 on x86, x86_64, Alpha, Sparc, MIPS, PARISC
  - Linux 2.6 / 3.x on x86, x86_64, ARM, Sparc, PPC64
  - Solaris 8/9 on UltraSPARC 2 and 3
  - Solaris 10 on Opteron and UltraSPARC
  - FreeBSD 4.10 - 10 on x86
  - OpenBSD 3.1 to -current on i386, amd64, mac pc, alpha, sparc64 and VAX (check the ports)
  - AIX 5.1 - 5.3 on Power™ architecture

**Configure HAProxy to send syslog to EventTracker**

To configure HAProxy to log in syslog,

- Edit the HAProxy server configuration file `/etc/haproxy/haproxy.cfg` and include the following lines:
  1. global
  2. log “EventTracker IP address” local0
  3. option httplog
Once logs are received into EventTracker, Categories and reports can be configured into EventTracker.

The following Knowledge Packs are available in EventTracker Enterprise to support Windows.

**Flex Reports**

- **HAProxy-Allowed traffic** - This report provides details of all the acceptable traffic that is passed through by the HA proxy server.
Logs Considered:

- **HAProxy-Denied traffic** - This report provides details on all the traffic that is denied by the HAProxy server.
Integrate HAProxy

Logs Considered:

- **HAProxy-Error connections** - This report provides details on all the error connection between the backend and frontend server.
Logs Considered:

<table>
<thead>
<tr>
<th>Log Time</th>
<th>Computer</th>
<th>Client Address</th>
<th>Client Port</th>
<th>Frontend Server</th>
<th>Backend Server</th>
<th>Error Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>07/14/2017 04:41:37 PM</td>
<td>HAPROXY</td>
<td>127.0.0.1</td>
<td>api-TLSv1.2</td>
<td>prod_services/prod-services</td>
<td>Connection error during SSL handshake.</td>
<td></td>
</tr>
<tr>
<td>07/14/2017 04:41:37 PM</td>
<td>HAPROXY</td>
<td>192.168.11.14</td>
<td>19452</td>
<td>portal-TLSv1.2</td>
<td>prod_portallb/prod-portallb</td>
<td>The server closed the transport connection.</td>
</tr>
<tr>
<td>07/14/2017 04:41:37 PM</td>
<td>HAPROXY</td>
<td>72.153.12.19</td>
<td>47213</td>
<td>api-TLSv1.2</td>
<td>prod_services/prod-services</td>
<td>The supplied message is incomplete. The signature was not verified.</td>
</tr>
<tr>
<td>07/14/2017 04:41:37 PM</td>
<td>HAPROXY</td>
<td>172.201.18.36</td>
<td>55179</td>
<td>portal-TLSv1.2</td>
<td>prod_vaultbundle/prod_vaultbundle</td>
<td>The request cannot be fulfilled due to bad syntax.</td>
</tr>
<tr>
<td>07/14/2017 04:41:37 PM</td>
<td>HAPROXY</td>
<td>192.168.55.10</td>
<td>56031</td>
<td>portal-TLSv1.2</td>
<td>prod_portallb/prod-portallb</td>
<td>Access denied.</td>
</tr>
</tbody>
</table>

**Import HAProxy knowledge pack into EventTracker**

**NOTE:** Import knowledge pack items in the following sequence:

- Token templates
- Flex Reports

**NOTE:** Export knowledge pack items in the following sequence:

- Token templates
- Flex Reports

1. Launch **EventTracker Control Panel**.
2. Double click **Export Import Utility**.
3. Click the **Import** tab.

**Token Templates**

1. Click the **Admin** menu, and then click **Parsing rule**.
2. Select **Template** tab, and then click on ‘**Import**’ option.
3. Click on **Browse** button.

4. Locate All HAProxy templates.ettd file, and then click the **Open** button.

---

**Figure 1**

**Figure 2**

**Figure 3**
5. Now select the check box and then click on ‘Import’ option. EventTracker displays success message.

![Template(s) imported successfully](Figure 4)

6. Click on OK button.

**Flex Reports**

1. Click Reports option, and then click the browse button.
2. Locate the All HAProxy reports.etc rx file, and then click the Open button.

![Export Import Utility](Figure 5)
3. Click the **Import** button to import the **scheduled** reports. EventTracker displays success message.

![Figure 6](image)

![Figure 7](image)

### Verify HAProxy knowledge pack in EventTracker

**Token Template**

1. Logon to **EventTracker Enterprise** web interface.
2. Click the **Admin** menu, and then click **Parsing Rules** and click **Template**.
3. Click on HAProxy group option.

Flex Reports

1. In the EventTracker Enterprise web interface, click the Reports menu, and then select Configuration.
2. In Reports Configuration pane, select Defined option.
3. In search box enter ‘HAProxy’, and then click the Search button.
   EventTracker displays Flex reports of ‘HAProxy’.
Create Flex Dashboards in EventTracker

NOTE: To configure the flex dashboards, schedule and generate the reports. Flex dashboard feature is available from EventTracker Enterprise v8.0.

Schedule Reports

1. Open EventTracker in browser and logon.

2. Navigate to Reports>Configuration.

3. Select HAPrxy in report groups. Check Defined dialog box.
4. Click on ‘schedule’ to plan a report for later execution.
5. Click Next button to proceed.
6. In review page, check Persist data in EventVault Explorer option.
7. In next page, check column names to persist using PERSIST checkboxes beside them. Choose suitable Retention period.

![REPORT WIZARD](image)

8. Proceed to next step and click Schedule button.
9. Wait till the reports get generated.

Create Dashlets

1. Open EventTracker Enterprise in browser and logon.
2. Navigate to Dashboard > Flex. Flex Dashboard pane is shown.

3. Fill suitable title and description and click Save button.

4. Click ⚙️ to configure a new flex dashlet. Widget configuration pane is shown.
5. Locate earlier scheduled report in **Data Source** dropdown.
6. Select **Chart Type** from dropdown.
7. Select extent of data to be displayed in **Duration** dropdown.
8. Select computation type in **Value Field Setting** dropdown.
9. Select evaluation duration in **As Of** dropdown.
10. Select comparable values in **X Axis** with suitable label.
11. Select numeric values in **Y Axis** with suitable label.
12. Select comparable sequence in **Legend**.
13. Click **Test** button to evaluate. Evaluated chart is shown.
14. If satisfied, click **Configure** button.

15. Click ‘customize’ to locate and choose created dashlet.
16. Click to add dashlet to earlier created dashboard.
Sample Flex Dashboards

- REPORT: HAProxy-Allowed traffic
  
  WIDGET TITLE: HAProxy-Allowed traffic
  CHART TYPE: Stacked Column
  AXIS LABELS [X-AXIS]: Remote Uri Accessed
  LEGEND [SERIES]: Client IP Address

- REPORT: HAProxy-Denied traffic
  
  WIDGET TITLE: HAProxy-Denied traffic
  CHART TYPE: Stacked column
  AXIS LABELS [X-AXIS]: Client IP Address
  LEGEND [SERIES]: Uri Accessed
- **REPORT**: HAProxy-Error connections
  - **WIDGET TITLE**: HAProxy-Error connections
  - **CHART TYPE**: Stacked Column
  - **AXIS LABELS [X-AXIS]**: Error Message
  - **LEGEND[SERIES]**: Client IP Address

![HAProxy-Error Connections Chart]

- **Error Message**:
  - Connection error during SSL handshake.
  - The server closed the transport connection.

**07/18 02:18 - 07/18 14:18**