

Qlik Sense 2.x: Set Up Header Auth Virtual Proxy -CF

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Assumptions

- Valid for Qlik Sense 2.x
- Qlik Sense server up, running, and licensed
- Configured User Directory with users allocated tokens (or login access token allocation)
- Fiddler installed on the system accessing Qlik Sense (use of Postman in Google Chrome can work too) <http://www.telerik.com/download/fiddler>.
- Postman Chrome extension is installed in the browser.
- This instruction does not account for multi-node configuration of virtual proxies (for now).

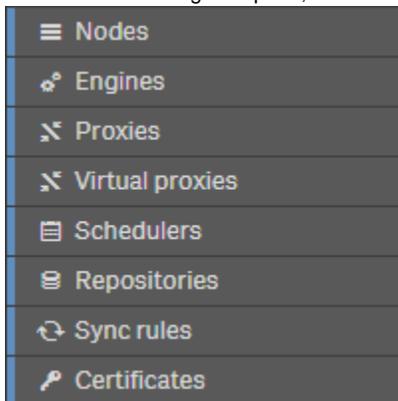
Introduction

This document uses words and pictures to describe setting up Qlik Sense for http header injected authorization. Documentation may call it header authentication, and while Qlik Sense maintains a list in the repository of the configured User Directory users, the platform does not perform traditional authentication (userid and password against an identity management solution). To set up http header injection in Qlik Sense, a virtual proxy will be created to handle requests and digest the header resulting in access to the Qlik Sense platform.

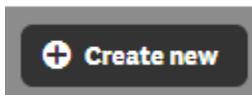
Instructions

Setting up the virtual proxy

1. Launch the Qlik Management Console.
2. On the left side navigation pane, click on the **Virtual proxies** item under **Configure System**.



3. Click the Create new button at the bottom of the web page.



4. In the Virtual proxy edit screen, make sure the **Identification**, **Authentication**, **Load balancing**, and **Integration** Properties are checked.

Properties

- ✓ Identification
- ✓ Authentication
- ✓ Load balancing
- Advanced
- ✓ Integration
- Tags

Custom properties

5. Enter a Description for the Virtual Proxy.
6. Enter a prefix for the virtual proxy you wish to create. This prefix will be added to the url used to connect to Qlik Sense. For example, if the prefix is named "excelsior", the url to navigate to would look like this: <http://%senseServerName%/excelsior/%senseLocation%>. For demonstration purposes, the %senseServerName%==sense11 and the %senseLocation% could be the following: [qmc, hub, qrs]. For this document, the prefix name will be "demohdr".

Prefix

The prefix must be unique for all virtual proxies used by the same proxy service, as this differentiates the virtual proxies and will be a part of the URL.

7. Scroll down to the Session cookie header name. The Session cookie header name needs to be unique for the virtual proxy so Qlik Sense knows how to manage sessions. Enter "X-Qlik-Session-demohdr".

Session cookie header name

The session cookie header name must be unique for all virtual proxies used by the same proxy service.

8. In the Authentication section, choose **Header authentication dynamic user directory** for the Authentication method.

Authentication method

9. For the Header authentication header name enter **hdr-sense-demohdr**.

Header authentication header name

10.

- a. Header authentication dynamic user directory configuration is the pattern the hdr-sense-demohdr value will be formatted. Enter **\$ud\\\$id**.

Header authentication dynamic user directory*

Use \$ud[sep]\$id or \$id[sep]\$ud where [sep] is one or more characters. Backslashes (\) must be escaped with an additional \. Example 1: \$ud\\\$id; example 2: \$id@\$ud; example 3: \$ud:::\$id.

- b. If you select **Header authentication static user directory**, instead of entering a pattern it will be necessary to add the user directory name to be used with this virtual proxy.

Header authentication static user directory

11. **New for Qlik Sense 1.1:** A server node needs to be added as a Load balancing node to instruct the virtual proxy to use a specific proxy to route requests. Select Add new server node and choose the server node to add the virtual proxy. Click the Add button to commit the selection.

LOAD BALANCING

Load balancing nodes

Server node

[+ Add new server node](#)

You must add server nodes to load balancing for users to be able to access apps.

Add server nodes to load balance on

Server nodes Showing: 1 Selected: 1 [Refresh](#)

Server node [Dropdown](#) [Copy](#)

Central

[Add](#) [Cancel](#)

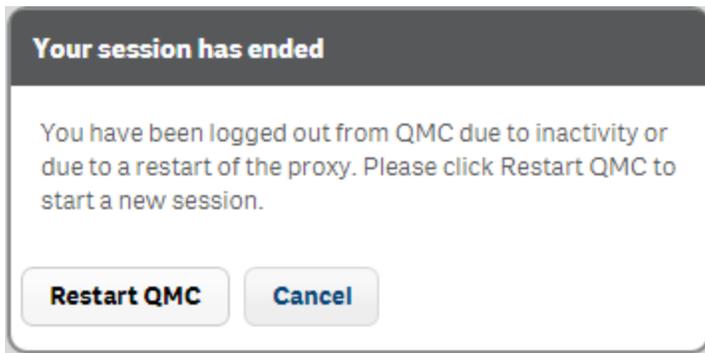
12. Click the Apply button. Click OK to apply changes to the virtual proxy. When prompted, restart the QMC.

[Apply](#)

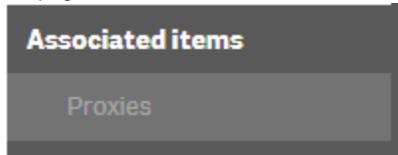
Apply changes to virtual proxy

Any proxies associated with this virtual proxy will be restarted. Sessions handled by these proxies will be ended and the users will be logged out. Continue?

[OK](#) [Cancel](#)



13. Go back to the virtual proxy you are working on creating. Click on the Proxies sub tab underneath Associated items on the right side of the page.



14. In order for the virtual proxy to work, it needs to be linked to a master proxy. To add a proxy to the virtual proxy, click the Link button. When the Select proxy services window appears, click the proxy to link the virtual proxy to and click Link.

 Link

Select proxy services

 Proxy services Showing: 1 Selected: 1 

Name  

Central Proxy

Default virtual proxies will not be linked to the selected proxy services.
All the linked proxy services must be restarted. The changes will take effect in a few seconds. Sessions handled by these proxies will be ended and users will be logged out.

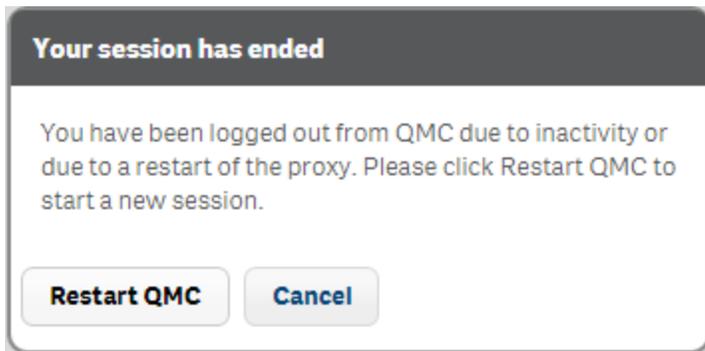
 Associated proxies Showing: 1 Selected: 0 

Name 	Status 
Central Proxy	Running 

Linked selected virtual proxies to the selected proxy services

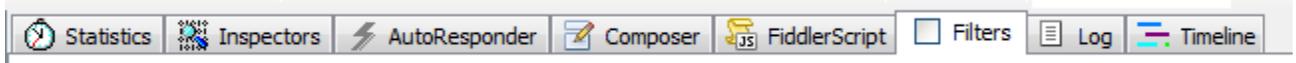
  

15. When prompted to restart the QMC, please click the button to do so.

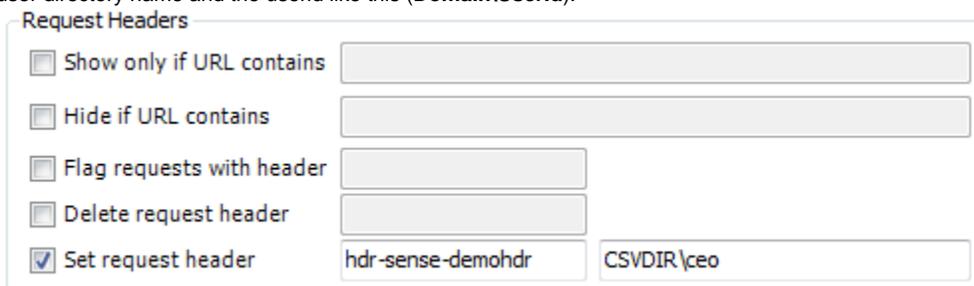


Testing the virtual proxy with Fiddler

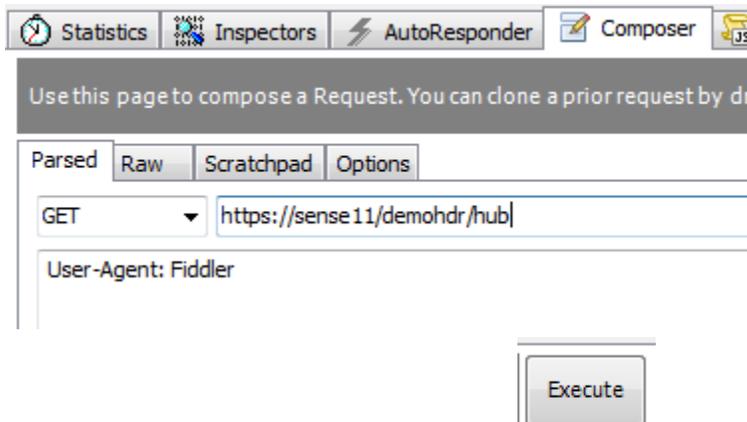
1. Launch Fiddler
2. Click on the Filters tab on the right side pane.



3. Click the Use Filters check box. Use Filters
4. Under the Request Headers section, check the box for Set request header and enter the key (**hdr-sense-demohdr**) and a user with the user directory name and the userid like this (**Domain\UserId**).



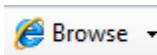
5. Click on the Composer tab and under the Parsed sub tab type in the following url: **https://%senseServerName%/demohdr/hub**. Recall that for this demo the %senseServerName%==sense11.



6. Click the Execute button to have fiddler go to the site.
7. Upon clicking Execute, a log entry will appear that looks like this:



click the browse button on the menu bar.



The result will be that the browser opens to the Qlik Sense hub logged in as the supplied user in the header.

Testing virtual proxy with Qlik Sense Repository Service API (QRS) using Postman

- a. Launch Postman from the apps page in Chrome.

- b. Under the Normal tab, enter the url to navigate to. In this case, navigate to **https://%senseServerName%/demohdr/qrs/app?xrfkey=ABCDEF123456789**. Recall that for this demo the %senseServerName%==sense11.

<https://sense11/demohdr/qrs/app?xrfkey=ABCDEF123456789>

Why the xrfkey parameter? The

xrfkey will allow entry and eliminate cross-site scripting issues that may arise during the connection.

- c. Add a header with the following:

- i. Header ==**X-Qlik-xrfkey**, Value==**ABCDEF123456789** Make sure this matches the parameter xrfkey.
- ii. Header ==**hdr-sense-demohdr**, Value==**Domain\UserId**

X-Qlik-xrfkey	ABCDEF123456789	⊗
hdr-sense-demohdr	sense11\qservice	⊗

Send

- d. Click the Send button and observe the results.

Body	Cookies (2)	Headers (7)	STATUS 200 OK	TIME 364 ms
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Pretty Raw Preview   JSON XML

```
1 [
2   {
3     "name": "Operations Monitor",
4     "appId": "",
5     "publishTime": "2014-09-17T01:56:39.328Z",
6     "published": true,
7     "stream": {
8       "name": "Administration",
9       "privileges": null,
10      "id": "a70ca8a5-1d59-4cc9-b5fa-6e207978dcaf"
11    },
12    "privileges": null,
13    "id": "0d69ccdf-7bc4-44a4-a6e2-b0f5cc4f9033"
14  },
15  {
16    "name": "New App",
17    "appId": "",
18    "publishTime": "1753-01-01T00:00:00.000Z",
19    "published": false,
20    "stream": null,
21    "privileges": null,
22    "id": "e6df6785-0b2a-4185-862a-ff191ec9af72"
23  },
24  {
25    "name": "MyApp",
26    "appId": "",
27    "publishTime": "1753-01-01T00:00:00.000Z",
28    "published": false,
29    "stream": null,
30    "privileges": null,
31    "id": "921b71e4-0cd8-4d38-8003-82542adfa86d"
32  },
33  {
34    "name": "Executive Dashboard",
35    "appId": "",
36    "publishTime": "2014-09-17T05:07:26.724Z",
37    "published": true,
38    "stream": {
39      "name": "Executive",
40      "privileges": null,
41      "id": "459571f9-80bf-49e6-a52d-b13a24bfa11a"
42    },
43    "privileges": null,
44    "id": "b17dc181-c1c5-45d1-9a51-ae95d042247c"
45  },
46 ]
```

