Qlik Sense 1.1: Set Up Header Auth Virtual Proxy

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Assumptions

- Valid for Qlik Sense 1.1
- 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).

Author



Jeffrey (Jeff) Goldberg Sr. Enterprise Architect OEM Solutions Manager OEM Solutions Architect

jog@qlik.com

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.

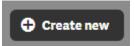
Instructions

Setting up the virtual proxy

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

CONFIGURE SYSTEM Nodes Engines Proxies Virtual proxies Schedulers Repositories Sync rules Certificates

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://wsenseServerName%/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.

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-demondr".

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 **Dynamic user directory** for the Header authentication mode.

Header authentication mode ← Dynamic user directory ▼

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

Header authentication header name hdr-sense-demondr

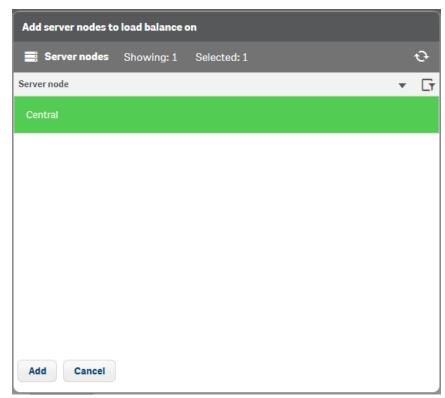
 Header authentication dynamic user directory configuration is the pattern the hdr-sense-demohdr value will be formatted. Enter \$ud\\$id.



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

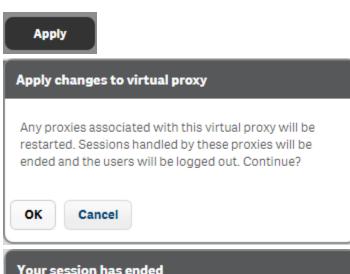


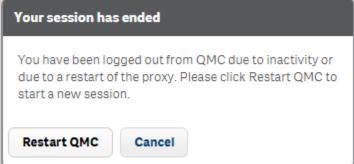


12. Scroll to the Integration section of the entry page. The Authentication module redirect URI is the address the proxy will go to before accessing Sense content. This could be a page for authentication to a host application, an identity management page, or a page with a prepackaged list of users to choose from. For the purposes of this document, the redirect uri will be the sense server itself.

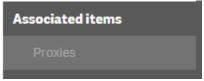
Authentication module redirect URI https://sense11

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



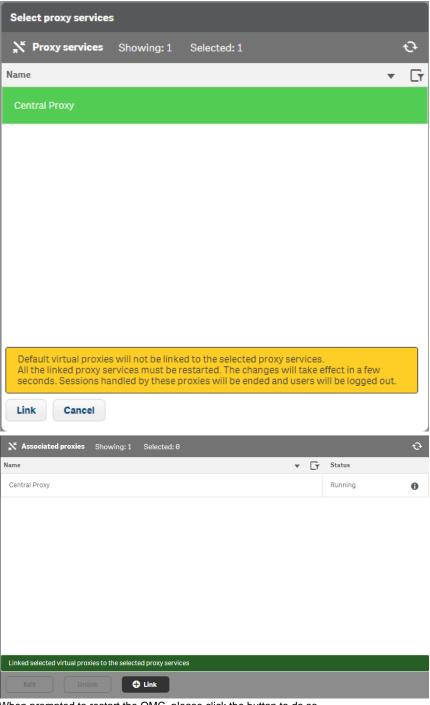


14. Go back to the virtual proxy you are working on creating. Click on the Proxies sub tab underneath Associated items on the right side of the page.

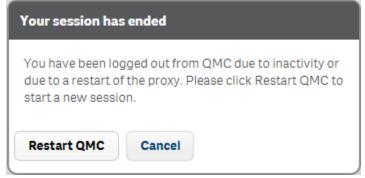


15. In order for the virtual proxy to work, it needs to be linked to a master proxy. To add a proxy to the virtual proxy, click the Link button. When the Select proxy services window appears, click the proxy to link the virtual proxy to and click Link.



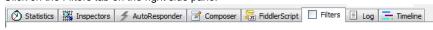


16. When prompted to restart the QMC, please click the button to do so.



Testing the virtual proxy with Fiddler

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

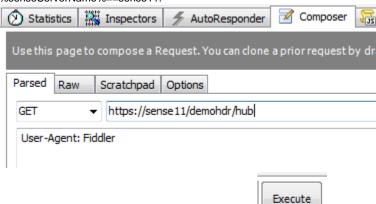


Use Filters

- 3. Click the Use Filters check box.
- 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



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:



will be that the browser opens to the Qlik Sense hub logged in as the supplied user in the

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=ABCDEFG123456789. Recall that for this demo the %senseServerName%==sense11.

https://sense11/demohdr/grs/app?xrfkey=ABCDEFG123456789

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== ABCDEFG123456789 Make sure this matches the parameter xrfkey.
 - ii. Header ==hdr-sense-demohdr, Value==Domain\UserId



Send

d. Click the Send button and observe the results.

```
STATUS 200 OK TIME 364 ms
       Cookies (2)
                                    Headers (7)
Pretty
                    Raw
                                     Preview
                                                                                    ⊦⊑
                                                                                                    JSON
                                                                                                                         XML
   1 2
         [
                              "name": "Operations Monitor", "appId": "",
                             "appId": "",
"publishTime": "2014-09-17T01:56:39.328Z",
"published": true,
"stream": {
    "name": "Administration",
    "privileges": null,
    "id": "a70ca8a5-1d59-4cc9-b5fa-6e207978dcaf"
    5
    6
7
    8
    9
  10
 11
12
13
                              },
"privileges": null,
"id": "0d69ccdf-7bc4-44a4-a6e2-b0f5cc4f9033"
 14
15
                   },
{
                              "name": "New App", "appId": "",
 16
17
                             "appId": "",
"publishTime": "1753-01-01T00:00:00.000Z",
"published": false,
"stream": null,
"privileges": null,
"id": "e6df6785-0b2a-4185-862a-ff191ec9af72"
  18
  19
  20
 21
22
 23
24
25
26
                   },
                             "name": "MyApp",
  "appId": "",
  "publishTime": "1753-01-01T00:00:00.000Z",
  "published": false,
  "stream": null,
  "privileges": null,
  "id": "921b71e4-0cd8-4d38-8003-82542adfa86d"
  27
  28
  29
  30
  31
 32
33
34
35
                   },
                             "name": "Executive Dashboard",
   "appId": "",
   "publishTime": "2014-09-17T05:07:26.724Z",
   "published": true,
   "stream": {
        "name": "Executive",
        "privileges": null,
        "id": "459571f9-80bf-49e6-a52d-b13a24bfa11a"
  36
  37
  38
  39
  40
  41
                             },
"privileges": null,
"id": "b17dc181-c1c5-45d1-9a51-ae95d042247c"
 42
 43
 45
                   },
```