

Knowledge

Adjusting the Qlik Sense Engine TTL

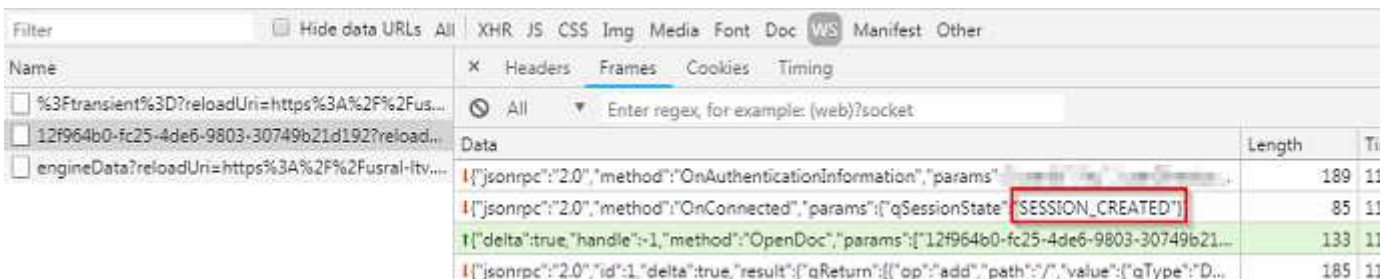
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Description

From [QIX engine memory management and CPU utilization](#):

In QlikView, a session ends a configurable amount of time after the user closes the browser tab where the session is running (that is, at "All sessions timed out"). In Qlik Sense, which uses WebSocket, the session ends when the user closes the browser tab (that is, at "User activity ends").

In practice, this means that when a browser refresh occurs in Qlik Sense, the user will create a new session. When inspecting the frames of the websocket traffic to the Engine, an administrator will see **SESSION_CREATED** signaling that the Engine is creating a new session. Like so:



Name	Headers	Frames	Cookies	Timing	Data	Length	Time
<input type="checkbox"/> %3Ftransient%3D?reloadUri=https%3A%2F%2Ffus...							
<input type="checkbox"/> 12f964b0-fc25-4de6-9803-30749b21d192?reload...							
<input type="checkbox"/> engineData?reloadUri=https%3A%2F%2Fusral-htv...					<pre> {"jsonrpc": "2.0", "method": "OnAuthenticationInformation", "params": {"qSessionState": "SESSION_CREATED"}, "id": 1} {"jsonrpc": "2.0", "method": "OnConnected", "params": {"qSessionState": "SESSION_CREATED"}, "id": 2} {"delta": true, "handle": -1, "method": "OpenDoc", "params": {"12f964b0-fc25-4de6-9803-30749b21d192"}, "id": 3} {"jsonrpc": "2.0", "id": 1, "delta": true, "result": {"qReturn": [{"op": "add", "path": "/", "value": {"qType": "D..."}]}} </pre>	189	11
					<pre> {"jsonrpc": "2.0", "method": "OnConnected", "params": {"qSessionState": "SESSION_CREATED"}, "id": 2} </pre>	85	11
					<pre> {"delta": true, "handle": -1, "method": "OpenDoc", "params": {"12f964b0-fc25-4de6-9803-30749b21d192"}, "id": 3} </pre>	133	11
					<pre> {"jsonrpc": "2.0", "id": 1, "delta": true, "result": {"qReturn": [{"op": "add", "path": "/", "value": {"qType": "D..."}]}} </pre>	185	11

(screenshot from Chrome's Developer Tools which allows inspection of the frames of websocket connections)

There are scenarios where an administrator would prefer to keep sessions open for extended periods of time due to the response time of the Engine when creating a new

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This functionality is **only** present in Qlik Sense Enterprise November 2017 or higher.

Confirmed on:

- Qlik Sense November 2017
- Qlik Sense February 2018
- Qlik Sense April 2018

Resolution

- Use the schema outlined in [How to modify Qlik Sense Engine's Settings.ini](#)
- For this change in behavior there are two key / value pairs to change:

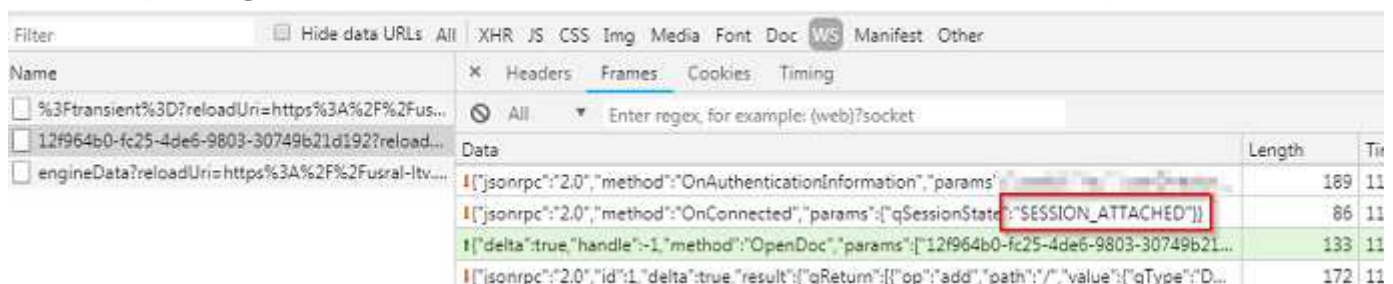
- 1) EnableTTL=1
- 2) SessionTTL=NumberOfSeconds

Setting (1) enabled TTL in the Engine and Setting (2) defines the period of time the Engine will preserve the session after the websocket connection is closed.

An example Settings.ini file with TTL enabled for 30 seconds is:

```
[Settings 7]
EnableTTL=1
SessionTTL=30
```

When inspecting Chrome's Dev Tools on a browser refresh, we see this response:



Name	Headers	Frames	Cookies	Timing	Data	Length	Time
%3Ftransient%3D?reloadUri=https%3A%2F%2Fus...							
12f964b0-fc25-4de6-9803-30749b21d192?reload...					[{"jsonrpc":"2.0","method":"OnConnected","params":{"qSessionState":"SESSION_ATTACHED"}}]	86	11
engineData?reloadUri=https%3A%2F%2Fusral-ltv...					[{"delta":true,"handle":-1,"method":"OpenDoc","params":["12f964b0-fc25-4de6-9803-30749b21..."]}]	133	11
					[{"jsonrpc":"2.0","id":1,"delta":true,"result":{"qReturn":{"op":"add","path":"/","value":{"qType":"D..."]}]	172	11

Concerns:

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