QGIS Application - Feature request #15617 QGIS/Qt does not trigger auto-import of Windows root Certificate Authorities

2016-09-26 04:50 AM - Luigi Pirelli

Status:	Open	
Priority:	Normal	
Assignee:	Larry Shaffer	
Category:	Authentication system	
Pull Request or P	atch swupplied:	Resolution:
Easy fix?:	No	Copied to github as #: 23540
Description		
OpenSSL is used a To verify, the proce 1. Open the Wind	and not the appropriate Win Crypto A dure is: dows certificate manager application	le to trigger auto-importing of trusted root CAs by the Windows OS. Since PI calls (certmgr.msc) and <i>remove</i> the "AddTrust External CA Root" certificate if it exists CA is not generally installed with a fresh copy of the OS, and it can readily be
	ificate manager anon	
	ificate manager open	://agis boundlossago com/olugins xml2agis-2.14 (this is for testing only, because
-		s://qgis.boundlessgeo.com/plugins.xml?qgis=2.14 (this is for testing only, because , non-plugin-repo SSL endpoints may as well)
4. Reload plugin		, non-piugin-repo SSE enupoints may as weil)
		SL Error dialog indicating a missing root CA. Because boundlessgeo.com's SSL
		e error should be produced. (Do not ignore or save an override configuration
-	abort the error to avoid the connection	
6. Open a Web b	rowser based upon native APIs for i	nteracting with the Win keystore, e.g. Chrome, Edge or Internet Explorer (not
-		nteracting with the Win keystore, e.g. Chrome , Edge or Internet Explorer (not
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simply explains the issue and offers the user a link or button to open the same URL in the default browser, which would possibly auto-import the root CA (but not if the browser is Firefox). This may be an easier fix than trying to programmatically call the Win Crypto API to possibly auto-update the missing root CA and reattempt the connection.

History

#1 - 2016-09-26 07:22 AM - Giovanni Manghi

- Subject changed from QGIS/QT Does not update list of Trusted CAs => need qgi srestart to QGIS/QT Does not update list of Trusted CAs => need QGIS srestart

#2 - 2016-09-26 07:26 AM - Giovanni Manghi

- Subject changed from QGIS/QT Does not update list of Trusted CAs => need QGIS srestart to QGIS/QT Does not update list of Trusted CAs => need QGIS restart

#3 - 2016-09-26 07:36 AM - Jürgen Fischer

- Project changed from QGIS Redmine (QGIS bug tracker) to QGIS Application

#4 - 2016-09-26 08:14 AM - Giovanni Manghi

- Assignee set to Larry Shaffer

#5 - 2016-09-26 08:37 AM - Larry Shaffer

- Target version set to Version 2.18

- Category set to Authentication system

#6 - 2016-09-26 09:19 AM - Larry Shaffer

- Subject changed from QGIS/QT Does not update list of Trusted CAs => need QGIS restart to QGIS/Qt does not trigger auto-import of Windows root Certificate Authorities

#7 - 2016-09-26 09:22 AM - Larry Shaffer

- File qgis-trusted-cas-cached.png added

#8 - 2016-09-26 09:38 AM - Larry Shaffer

Regarding the qgis-trusted-cas-cached.png attachment. The left part of the image shows the *default trusted root CAs* for a fresh install of Windows 10, *plus* the "AddTrust External CA Root" certificate that was added automatically by the Win OS via its hosted Trusted Root Certificate program.

#9 - 2016-10-10 01:38 AM - Luigi Pirelli

during dev I found a possible bug reported in #15687

#10 - 2016-10-17 02:45 AM - Luigi Pirelli

I didn't find any solution to #15687 => the only way to reload ssl CA cache without waiting some minutes for the update is to re-start qgis!

#11 - 2016-10-17 02:54 AM - Luigi Pirelli

I'll prepare a PR from the following branch:

https://github.com/boundlessgeo/qgis/tree/CAs_import_via_keystore

the fix is applicable only on Windows. No CA problems found on linux and mac.

#12 - 2016-10-17 02:58 AM - Luigi Pirelli

just waiting to have a UX review before to create the PR

#13 - 2016-10-17 06:25 AM - Luigi Pirelli

a screencast to show hos the interface works https://youtu.be/pN30XE7r7_k

#14 - 2016-10-19 04:21 AM - Luigi Pirelli

created two PR

for 2.14: https://github.com/qgis/QGIS/pull/3640 for 2.18: https://github.com/qgis/QGIS/pull/3671

#15 - 2016-10-19 04:33 AM - Luigi Pirelli

fix only for 2.14 and release-2_18 because probably the issue is not present in qgis3 due the different ssl infrastructure offered by qt5

#16 - 2017-05-01 12:46 AM - Giovanni Manghi

- Easy fix? set to No

Files

qgis-trusted-cas-cached.png

448 KB

2016-09-26

Larry Shaffer