

QGIS Application - Bug report #17947

Add GeoJSON from a https URL on Windows fails due to a SSL certificate problem

2018-01-24 12:41 PM - David Piles

Status: Open	
Priority: Normal	
Assignee:	
Category: Data Provider	
Affected QGIS version: 3.4.4	Regression?: No
Operating System: Windows 7 , windows 10	Easy fix?: No
Pull Request or Patch supplied:	Resolution:
Crashes QGIS or corrupts data:	Copied to github as #: 25843
Description	
<p>Trying to add a Geojson in QGIS Desktop from a url from the dialog add vector layer by protocol, gives error. "Invalid data source https: //geojson is not a valid or recognized data source". The same geojson, if I open it in local works, online gives that error. It doesn't work with http, or with https. If you copy the content of the geojson in the URI, it shows it to you. It has not worked for me in the QGIS Desktop 2.18.14 and QGIS Desktop 2.18.16, windows versions.</p>	
Related issues:	
Duplicated by QGIS Application - Bug report # 20898: Geojson Protocol in QGIS...	Closed 2018-12-31

History

#1 - 2018-01-24 12:46 PM - David Piles

- Assignee deleted (Luigi Pirelli)

#2 - 2018-01-24 09:14 PM - Nyal Dawson

- Status changed from Open to Feedback

Just a hunch - is this geojson from fulcrum?

Try this:

Inside QGIS, go to Options - System. Under "environment" add a new line, with

VARIABLE: GDAL_HTTP_USERAGENT

VALUE: Mozilla/5.0 (Windows NT 6.1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/41.0.2228.0 Safari/537.36

ok out of options, restart qgis.

It'll work ok after that.

Seems like something at fulcrum is blocking the user agent used by gdal.

#3 - 2018-02-02 08:29 AM - Alessandro Pasotti

- Subject changed from Ad GeoJSON from a URL to Add GeoJSON from a URL

#4 - 2018-02-02 09:18 AM - David Piles

- File qgis.jpg added

- Assignee set to Alessandro Pasotti

Thx

As in the picture?

It doesn't work for me after restarting.

#5 - 2018-02-02 09:19 AM - Alessandro Pasotti

- Assignee deleted (Alessandro Pasotti)

#6 - 2018-02-02 08:09 PM - Richard Duivenvoorde

You are not behind a proxy are you?

Can you provide the url you are testing? Or the json you receive when you download it in your browser?

As a test I just scribbled a line in <http://geojson.io> and save it on my homeserver: <http://duif.net/test.json>

That just works for me both in 2.18 and in master.

Can you check those (line around europe)

#7 - 2018-02-05 12:00 PM - David Piles

I'm not behind a proxy.

My GeoJSON is done through the menu "save as" QGIS, from a shp file.

Maybe there's the problem, the format in which QGIS makes and save geojsons.

Try this url: https://strageo.es/wp-content/uploads/datos/Testing_QGIS1.geojson

If you open directly in QGIS it works, but by the protocol method doesn't work.

#8 - 2018-02-06 06:15 PM - Richard Duivenvoorde

- Subject changed from Add GeoJSON from a URL to Add GeoJSON from a https URL on Windows fails due to a SSL certificate problem

Ok, confirmed here on a recent Windows osgeo4w64 build. In the message console it says:

```
2018-02-06T18:03:24 1 Data source is invalid (SSL certificate problem: unable to get local issuer certificate)
```

Seems the problem seems to be the httpS connection.

Will change the Subject

In Linux this works just fine.

To test on windows: http://duif.net/Testing_QGIS1.geojson works just fine.

https://duif.net/Testing_QGIS1.geojson does not load and shows error above

Tried to update to latest 2.18, but did not help.

Also tested current master/2.99 in same environment: Same problem!

QGIS version
2.99.0-Master
QGIS code revision
1a117cf080
Compiled against Qt
5.9.2
Running against Qt
5.9.2
Compiled against GDAL/OGR
2.2.3
Running against GDAL/OGR
2.2.3
Compiled against GEOS
3.5.0-CAPI-1.9.0
Running against GEOS
3.5.0-CAPI-1.9.0 r4084
PostgreSQL Client Version
9.2.4
Spatialite Version
4.3.0
QWT Version
6.1.3
PROJ.4 Version
493
QScintilla2 Version
2.10.1
This copy of QGIS writes debugging output.

#9 - 2018-02-08 11:04 AM - Richard Duivenvoorde

Adding another observation:

Plain ogrinfo generates the same error:

```
C:\osgeo4w64>ogrinfo https://duif.net/Testing_QGIS1.geojson
ERROR 1: SSL certificate problem: unable to get local issuer certificate
ERROR 1: SSL certificate problem: unable to get local issuer certificate
FAILURE:
Unable to open datasource `https://duif.net/Testing_QGIS1.geojson' with the following drivers.
```

#10 - 2018-02-08 12:49 PM - Tom Chadwin

Does this help when trying ogrinfo:

```
--config GDAL_HTTP_UNSAFESSL YES
```

Source: <https://toolkit.data.wa.gov.au/hc/en-gb/articles/115000819754>

EDIT: A better source on gdal-dev, with input from Even is here:

#11 - 2018-02-08 05:07 PM - Luigi Pirelli

May you check a workaround in windows? In a win installation that expose the porblem, try to load the geojson in a Explorer (not other browser... only Explorer!)

Then try to load in QGIS as usual and verify if the error is still present.

The rational is that a CAPI enabled Browser, reciving a Unsercognised CA, try to ask to the M\$ services to check if the CA is trustable, it M\$ say yes, the CA is added in the CA lists.

let us know if this warkaround works... if so, we can follow with possibile solutions.

#12 - 2018-02-08 09:18 PM - Richard Duivenvoorde

@Tom Chadwin: yes that helped (for ogrinfo)...

#13 - 2018-02-08 09:29 PM - Richard Duivenvoorde

@Luigi tried your test also here (by the way I'm on a recent new/updtodate WIN10 VM here, not a fully registred Windows install).

Loaded the https url succesfully in Explorer... that made my (by accident) already running QGIS 2.18 crash instantanious?! :(So? apparently something was happening?

But restarting QGIS it still gives the error, and also the master version of QGIS.

Also tried with a clean .qgis2 dir, and by adding the url to Microsoft Edge (as that is their favorite isn't it?).

But all did not help...

Not that the duif.net cert is a Letsencrypt certificate, while the https url from the original issuer (https://strageo.es/wp-content/uploads/datos/Testing_QGIS1.geojson) is a Digicert certificate. Both failing (in my and his environment).

#14 - 2018-03-20 03:37 PM - Geoffrey Baum

Nyall Dawson wrote:

Just a hunch - is this geojson from fulcrum?

Try this:

Inside QGIS, go to Options - System. Under "environment" add a new line, with

VARIABLE: GDAL_HTTP_USERAGENT

VALUE: Mozilla/5.0 (Windows NT 6.1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/41.0.2228.0 Safari/537.36

ok out of options, restart qgis.

It'll work ok after that.

Seems like something at fulcrum is blocking the user agent used by gdal.

A Fulcrum GeoJSON opens for me in QGIS 2.18.7 but not within QGIS 3.0, pretty much any QGIS after 2.18.8 I believe from other discussions I've seen online. Also your advice does not seem to work in any other versions if added to the Environment variables.

#15 - 2018-09-10 05:41 PM - joe larson

I wanted to checkin here to see if there's any update to this issue or advice on how we might be able to overcome this (disclaimer, I work on the Fulcrum product). This is currently still an issue with Windows 2.x LTR and 3.x, but if you go back to 2.16.3-1 it is functional. In my testing, none of the suggestions mentioned in this thread help in getting these data sources to be recognized.

#16 - 2018-12-05 07:32 PM - Calvin Metcalf

I'm seeing this for google URLs too, it was a fresh install of QGIS and trying to load some geojson from a url got the `SSL certificate problem: unable to get local issuer certificate` error

#17 - 2018-12-06 09:47 AM - Giovanni Manghi

Calvin Metcalf wrote:

I'm seeing this for google URLs too, it was a fresh install of QGIS and trying to load some geojson from a url got the `SSL certificate problem: unable to get local issuer certificate` error

what qgis version? what os and version?

#18 - 2018-12-31 08:49 PM - Giovanni Manghi

- Duplicated by Bug report #20898: Geojson Protocol in QGIS 3.4.3 added

#19 - 2019-01-21 12:34 AM - Jürgen Fischer

Please test with QGIS 3.4 - QGIS 2.18 reached it's end of life.

#20 - 2019-01-21 11:57 PM - joe larson

- Affected QGIS version changed from 2.18.16 to 3.4.4

I am still experiencing the same behavior in my test with 3.4.4 on Windows 10 and have updated the 'Affected QGIS version' of this ticket. Noted, I am testing in a virtualized environment (Parallels via a Mac host OS). It would be nice if someone else can also test.

#21 - 2019-01-22 12:13 AM - Nyall Dawson

Joe - are you connecting to fulcrum? Because they also block the QGIS user agent from direct access (no idea why).

#22 - 2019-01-22 02:56 AM - joe larson

Nyall Dawson wrote:

| Joe - are you connecting to fulcrum? Because they also block the QGIS user agent from direct access (no idea why).

Hi Nyall, yes - I'm trying from Fulcrum. It's not an issue on Mac with QGIS 3.4. I suspect this is related #19331

In my Win10 VM/QGIS 3.4.4, I can connect to the Fulcrum data by setting GDAL_HTTP_UNSAFESSL = YES ...so we'll provide that workaround for now.

#23 - 2019-02-26 06:37 PM - Chad Howard

I used the Data Share feature from Fulcrum in every version of QGIS up to 3.4.3. After this version it broke but only in the Windows Version of QGIS. The Linux and Mac versions still operate perfectly with no problems at all. In the windows version when you pick GeoJson as your viable there are TWO in the list and neither work. I have tried to place the work around listed above and still does not work. It is not the end of the world for me since I have 2 Linux boxes, 3 Macs and 2 Windows computers so when I need to import data from fulcrum I just kick over to a Linux or Mac machine.

#24 - 2019-03-01 08:43 PM - Giovanni Manghi

- Priority changed from High to Normal
- Status changed from Feedback to Open
- Regression? changed from Yes to No

Files

qgis.jpg	73.6 KB	2018-02-02	David Piles
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