QGIS Application - Bug report #8628
DB Manager does not load PostGIS rasters using QGIS-master for Debian

2013-09-18 09:09 AM - Mathieu Basille

Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	DB Manager		
Affected QGIS version:	master	**Regression?:**	No
Operating System:	Debian	**Easy fix?:**	No
Pull Request or Patch supplied:		**Resolution:**	worksforme
Crashes QGIS or corrupts data:		**Copied to github as #:**	17362

Description

I'm currently using the nightly repository for Debian (https://issues.qgis.org/projects/quantum-gis/wiki/Download#213-Master) under Debian Testing (Jessie). Right now, the package version installed is:

  - 1.9.0+git20130828+fa135f0~unstable1 0
       904 http://qgis.org/debian-nightly/ sid/main amd64 Packages

If I open the DB Manager (v. 0.1.20), connect to a PostGIS data base, I'm not able to load a raster, either by drag and drop to the list of layers, or by left-clicking and 'Add to canvas'. All my rasters are tiled. Loading vector layers work with both approaches.

However, I remember that loading PostGIS rasters used to work couple of weeks ago... I'm not a heavy QGIS user, so that I cannot confirm whether an update occurred since then, I just noticed recently that it didn't work any more. I'd be happy to provide any additional information required.

Version of GDAL :

libgdal1 *** 1.9.0-3.1+b2 0
     900 http://ftp.us.debian.org/debian/ jessie/main amd64 Packages

libgdal1-dev: *** 1.9.0-3.1 0
     900 http://ftp.us.debian.org/debian/ jessie/main amd64 Packages

gdal-bin *** 1.9.0-3.1+b2 0
     900 http://ftp.us.debian.org/debian/ jessie/main amd64 Packages

Mathieu.

Related issues:

Duplicated by QGIS Application - Bug report # 8765: Postgis raster shows rand...	**Closed**	**2013-10-03**

History

#1 - 2013-09-18 09:12 AM - Mathieu Basille

I forgot to say: if I drag and drop a raster layer, or if I use the 'Add to canvas' option, nothing happens. No crash, no loading, really nothing (and the system does not seem busy).

#2 - 2013-09-18 09:15 AM - Giovanni Manghi

- Status changed from Open to Feedback

please update to qgis 2.0.1 or master, try again and report back.

#3 - 2013-09-18 09:15 AM - Mathieu Basille

About GDAL, here is what QGIS says in the about window:

Compiled with GDAL/OGR   1.9.0   Used with GDAL/OGR   2.0dev

#4 - 2013-09-18 09:18 AM - Mathieu Basille

Giovanni Manghi wrote:

> *please update to qgis 2.0.1 or master, try again and report back.*

Well, as far as I can tell, I'm on the master: that's at least the most recent version available on the Debian repository (see
http://qgis.org/debian-nightly/dists/sid/main/binary-amd64/Packages).

#5 - 2013-09-18 09:19 AM - Giovanni Manghi

master is now tagged 2.1

#6 - 2013-09-18 09:21 AM - Mathieu Basille

Giovanni Manghi wrote:

> *master is now tagged 2.1*

But that's not the one available in the official QGIS repository for Debian. Or am I missing something?

#7 - 2013-09-21 02:25 PM - Mathieu Basille

Sorry to insist on this, but is there anything I can do using the QGIS official repository for Debian?
Thanks.

#8 - 2013-09-26 12:10 PM - Mathieu Basille

With today's update, the QGIS official repository for Debian switched to 2.1.0-Master:

qgis: *** 2.1.0+git20130925+bb63eb1~unstable1 0
    904 http://qgis.org/debian-nightly/ sid/main amd64 Packages

However, my problem is still here: I can load vectors (points, lines, polygons), but not rasters from the DB Manager.

#9 - 2013-09-30 05:36 PM - Mathieu Basille

The problem is still here with today's update (if anyone's interested):

qgis: *** 2.1.0+git20130930+52ac084~unstable1 0

    904 http://qgis.org/debian-nightly/ sid/main amd64 Packages

#10 - 2014-01-26 12:49 AM - Paolo Cavallini

I can show rasters, except for those registered out-of-db (-R)

#11 - 2014-01-26 01:10 AM - Paolo Cavallini

Further info: loaded rasters can in general be loaded, whereas those resulting from in-db elaborations (e.g., aspect from DTM) cannot. Right clicking does not do anything, whereas drag & drop on the canvas says:

GDAL provider: Cannot get GDAL raster band:
Raster layer: Provider is not valid (provider: gdal, URI: [etc]

DB Manager complains there is no PK, even though rid is present; however, adding a PK does not solve the problem

#12 - 2014-01-26 01:12 AM - Paolo Cavallini

- Priority changed from Normal to High

#13 - 2014-02-07 05:13 AM - Giovanni Manghi

- Priority changed from High to Normal

There is no crash or data corruption, so I'm lowering the priority.

#14 - 2014-07-09 02:29 AM - Paolo Cavallini

Confirmed on 2.4

#15 - 2014-12-05 04:13 AM - Paolo Cavallini

Now it seems to work, except for -r (out of db) rasters, that crash QGIS

#16 - 2015-02-04 07:56 AM - Paolo Cavallini

Apparently still valid: the result of st_resample cannot be read.

CREATE TABLE dtm1k
 AS SELECT rid, ST_Resample(rast,1000,1000)
 AS rast
 FROM dtm_single;

#17 - 2015-05-19 05:59 AM - Sandro Santilli

Should have been fixed with commit:27f1d9fb3ebb2445c7bec4350fd5b822d4d718e1 -- can you confirm ?

#18 - 2015-05-27 10:27 AM - Mathieu Basille

Is this late fix already in the binaries for Debian?

I still cannot load raster from the DB manager with Debian Jessie (note that I just tried with Windows, and it worked without any problem). I tried with the latest release:

    *** 1:2.8.2+13jessie 0
        904 http://qgis.org/debian/ jessie/main amd64 Packages

as well as the development version:

    *** 1:2.9.0+git20150526+b91e43a+13jessie 0
        904 http://qgis.org/debian-nightly/ jessie/main amd64

and I get more or less the same error message if I drag and drop, or if I use "Add to canvas":

GDAL provider: Cannot open GDAL dataset PG: `PG' does not exist in the file system, and is not recognised as a supported dataset name.

Raster Layer PG: dbname=<DB> host=xxx user=xxx port=5432 mode=2 schema=env_data column=rast table=etopo1_dem is an invalid layer and cannot be loaded [translated from French...]

(or)

GDAL provider: Cannot obtain the layer from GDAL raster (src/providers/gdal/qgsgdalprovider.cpp : 2521 : initBaseDataset) [translated from French...]

Raster Layer: The provider is invalid (provider gdal, URI : PG: dbname=<DB> host=xxx user=xxx password=xxx port=5432 mode=2 schema=env_data column=rast table=dem_srtm) [translated from French...]
(src/core/raster/qgsrasterlyaer.cpp : 668 : setDataProvider)

Is there anything else I could do to narrow the problem down?

Thank you,
Mathieu.

Edit: GDAL versions, if it helps

    gdal-bin:
     *** 1.10.1+dfsg-8+b3 0
        800 http://ftp.us.debian.org/debian/ jessie/main amd64 Packages

    libgdal1h:
     *** 1.10.1+dfsg-8+b3 0
        800 http://ftp.us.debian.org/debian/ jessie/main amd64 Packages

#19 - 2015-07-08 12:32 AM - Ruediger Brand

- File qgis_error.png added

I had the same error:

Cannot open GDAL dataset PG:

`PG' does not exist in the file system,

and is not recognised as a supported dataset name.

Following Version:

QGIS-Version   2.8.2-Wien   QGIS-Codeversion   1b929ef

Kompiliert gegen Qt   4.8.5   Laufendes Qt   4.8.5

Kompiliert mit GDAL/OGR   1.11.2   Läuft mit GDAL/OGR   1.11.2

Kompiliert mit GEOS   3.4.2-CAPI-1.8.2   Läuft mit GEOS   3.4.2-CAPI-1.8.2 r3921

PostgreSQL-Client-Version   9.2.4   SpatiaLite-Version   4.1.1

QWT-Version   5.2.3   PROJ.4-Version   480

QScintilla2-Version   2.7.2

#20 - 2015-07-08 12:33 AM - Ruediger Brand

- File qgis_error1.png added

more Information:

--> geotiff is rgb-color coded

#21 - 2015-12-21 11:56 AM - Giovanni Manghi

Paolo Cavallini wrote:

> *Now it seems to work, except for -r (out of db) rasters, that crash QGIS*

works fine on QGIS 2.8.4, Ubuntu 14.04, pgsql 9.3 and postgis 2.1

#22 - 2015-12-21 11:58 AM - Giovanni Manghi

Paolo Cavallini wrote:

> *Apparently still valid: the result of st_resample cannot be read.*
>
> *CREATE TABLE dtm1k*
> *AS SELECT rid, ST_Resample(rast,1000,1000)*
> *AS rast*
> *FROM dtm_single;*

works fine on QGIS 2.8.4, Ubuntu 14.04, pgsql 9.3 and postgis 2.1

even for out of db raster inputs.

#23 - 2015-12-21 11:59 AM - Giovanni Manghi

not sure about Debian, but on Ubuntu I see no issues here.

#24 - 2016-01-06 08:53 AM - Giovanni Manghi

- Resolution set to worksforme

closing for lack of feedback, please reopen of necessary.

#25 - 2016-01-06 11:41 AM - Giovanni Manghi

- Status changed from Feedback to Closed

Files

qgis_error.png	34.1 KB	2015-07-07	Ruediger Brand
qgis_error1.png	42.3 KB	2015-07-07	Ruediger Brand