QGIS Application - Bug report #12340
using --configpath on new empty dir raises Python error + subsequest segfault

2015-03-09 04:12 AM - Richard Duivenvoorde

Status:	Closed		
Priority:	Normal		
Assignee:	Nathan Woodrow		
Category:	Expressions		
Affected QGIS version:	2.8.1	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	fixed/implemented
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	20516

Description

Paolo asked for it on the dev list, I can confirm:

1. create a new dir:
   mkdir /tmp/t1
2. start qgis using --configpath
   qgis --configpath /tmp/t1

QGIS will generate the following python error and crash after that:

    Couldn't load qgis.user.
    Python support will be disabled.

    Traceback (most recent call last):
      File "", line 1, in
      File "/home/richard/apps/qgis/master/debug/share/qgis/python/qgis/utils.py", line 478, in _import
        mod = _builtin_import(name, globals, locals, fromlist, level)
      File "/home/richard/apps/qgis/master/debug/share/qgis/python/qgis/user.py", line 39, in
        import expressions
      File "/home/richard/apps/qgis/master/debug/share/qgis/python/qgis/utils.py", line 478, in _import
        mod = _builtin_import(name, globals, locals, fromlist, level)
    ImportError: No module named expressions

NOTE: starting QGIS again using same dir is now ok...

Associated revisions

Revision 738838ac - 2015-06-01 06:44 AM - Nathan Woodrow

Fix #12340 - Reload site to pick up new expressions package

History

#1 - 2015-03-09 04:13 AM - Paolo Cavallini

Thanks Richard.

#2 - 2015-03-09 06:07 AM - Jürgen Fischer

- Assignee set to Nathan Woodrow

expressions/__init__.py is created when it's not available - but the freshly created module can apparently not be initially loaded via "import expressions".

#3 - 2015-03-09 06:07 AM - Jürgen Fischer

- Category changed from Browser to Expressions

#4 - 2015-05-31 09:46 PM - Nathan Woodrow

- Status changed from Open to Closed

Fixed in changeset commit:"738838acd4ed023e2a181fba4707e6425223315f".

#5 - 2015-05-31 09:47 PM - Nathan Woodrow

- Resolution set to fixed/implemented

Should hopefully be fixed now. Not sure if doing reload(site) is the best solution but it does work and doesn't seem to mess anything up.

#6 - 2015-06-18 04:24 AM - Richard Duivenvoorde

- Status changed from Closed to Reopened

Reopening this one, because this still occurs with me.

If I surround the import expressions part with a try/catch, and write some warning, then at least I do not have a segfault the first time:

```
import site
reload(site)

try:
    # try this import, but will fail when this is a fresh configuration directory
    # eg when starting QGIS with: "qgis --configpath /tmp/foo "
    import expressions

    expressions.load = load_user_expressions
    expressions.load(expressionspath)
    expressions.template = """\"\"\"
    Define new functions using @qgsfunction. feature and parent must always be the
    last args. Use args=-1 to pass a list of values as arguments
    \"\"\"

    from qgis.core import *
    from qgis.gui import *

    @qgsfunction(args='auto', group='Custom')
    def func(value1, feature, parent):
        return value1
```

```
        """

except:
    msgtitle = QCoreApplication.translate("UserExpressions", "User expressions")
    msg = QCoreApplication.translate("UserExpressions", "Unable to load Expressions... New Settings/Config?")
    QgsMessageLog.logMessage(msg, msgtitle, QgsMessageLog.WARNING)
```

Let me know if this is fix or need a pull request

#7 - 2015-06-26 04:49 AM - Richard Duivenvoorde

@nathan:

is commit:2112128 the final fix? So we can close this one?

#8 - 2015-06-26 05:01 AM - Nathan Woodrow

- Status changed from Reopened to Closed

Yep. Seems it was close to what you had too. Sorry I didn't even check.