

Redmine - Defect #28725

Mercurial 4.6 compatibility

2018-05-09 21:55 - Frédéric Fondement

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Go MAEDA	% Done:	0%
Category:	SCM	Estimated time:	0.00 hour
Target version:	3.3.8	Affected version:	3.4.5
Resolution:	Fixed		

Description

Hello,

My Redmine 3.4.5 can't display any info when checking a mercurial repository when I upgrade Mercurial from 4.5.3 to 4.6.

The following error is shown in production.log:

```
Started GET "/redmine/projects/nerdsarmy/repository" for aaa.bbb.ccc.ddd at 2018-05-09 21:07:37 +0200
Processing by RepositoriesController#show as HTML Parameters: {"id"=>"nerdsarmy"}
```

```
Current user: me@mydot.com (id=86)
hg: error during getting info: hg exited with non-zero status: 1
Rendered common/error.html.erb within layouts/base (1.6ms)
Rendered plugins/redmine_code_review/app/views/code_review/_html_header.html.erb (5.3ms)
Rendered plugins/redmine_code_review/app/views/code_review/_change_repository_view.html.erb (0.1ms)
Rendered plugins/redmine_code_review/app/views/code_review/_body_bottom.html.erb (2.2ms)
Completed 404 Not Found in 524ms (Views: 77.3ms | ActiveRecord: 10.2ms)
```

The command that triggers the error:

```
hg -R/hg/gl1718-nerdsarmy-model --encoding=utf-8 --config
extensions.redminehelper=/redmine-3.4.5/lib/redmine/scm/adapters/mercurial/redminehelper.py --config diff.git=false
rhsummary
```

whose result is:

```
<?xml version="1.0"?>
<rhsummary>
<repository root="/hg/gl1718-nerdsarmy-model">
</repository>
</rhsummary>
** Unknown exception encountered with possibly-broken third-party extension redminehelper
** which supports versions unknown of Mercurial.
** Please disable redminehelper and try your action again.
** If that fixes the bug please report it to the extension author.
** Python 2.7.15 (default, May 9 2018, 19:47:00) [GCC 7.2.1 20170829 (Red Hat 7.2.1-1)]
** Mercurial version 4.6, système de gestion de sources distribué
** Extensions chargées : highlight, strip, redminehelper
Traceback (most recent call last):
```

```
File "/usr/local/bin/hg", line 41, in <module>
    dispatch.run()
File "/usr/local/lib/python2.7/site-packages/mercurial/dispatch.py", line 90, in run
    status = (dispatch(req) or 0)
File "/usr/local/lib/python2.7/site-packages/mercurial/dispatch.py", line 210, in dispatch
    ret = _runcatch(req)
File "/usr/local/lib/python2.7/site-packages/mercurial/dispatch.py", line 351, in _runcatch
    return _callcatch(ui, _runcatchfunc)
File "/usr/local/lib/python2.7/site-packages/mercurial/dispatch.py", line 359, in _callcatch
    return scmutil.callcatch(ui, func)
File "/usr/local/lib/python2.7/site-packages/mercurial/scmutil.py", line 160, in callcatch
    return func()
File "/usr/local/lib/python2.7/site-packages/mercurial/dispatch.py", line 341, in _runcatchfunc
    return _dispatch(req)
File "/usr/local/lib/python2.7/site-packages/mercurial/dispatch.py", line 971, in _dispatch
    cmdpats, cmdoptions)
File "/usr/local/lib/python2.7/site-packages/mercurial/dispatch.py", line 727, in runcommand
    ret = _runcommand(ui, options, cmd, d)
File "/usr/local/lib/python2.7/site-packages/mercurial/dispatch.py", line 979, in _runcommand
    return cmdfunc()
File "/usr/local/lib/python2.7/site-packages/mercurial/dispatch.py", line 968, in <lambda>
    d = lambda: util.checksignature(func)(ui, *args, **strcmdopt)
File "/usr/local/lib/python2.7/site-packages/mercurial/util.py", line 1553, in check
    return func(*args, **kwargs)
File "/usr/share/redmine-3.4.5/lib/redmine/scm/adapters/mercurial/redminehelper.py", line 219, in rhsummary
    _tip(ui, repo)
File "/usr/share/redmine-3.4.5/lib/redmine/scm/adapters/mercurial/redminehelper.py", line 64, in _tip
    tipctx = repo.changectx(tiprev())
File "/usr/local/lib/python2.7/site-packages/mercurial/repoview.py", line 255, in __getattr
    return getattr(self._unfilteredrepo, attr)
AttributeError: 'localrepository' object has no attribute 'changectx'
```

All of this is back to normal when downgrading mercurial to 4.5.3

Regards

Associated revisions

Revision 17351 - 2018-05-28 11:40 - Go MAEDA

Mercurial 4.6 compatibility (#28725).

Patch by Marc Schlaich and Frédéric Fondement.

Revision 17352 - 2018-05-28 13:43 - Go MAEDA

Merged r17351 from trunk to 3.4-stable (#28725).

Revision 17353 - 2018-05-28 13:53 - Go MAEDA

Merged r17351 from trunk to 3.3-stable (#28725).

History

#1 - 2018-05-24 08:25 - Marc Schlaich

Here is a patch.

BTW, the correct way communicating with Mercurial would be using the Command Server and not the internal API (see <https://www.mercurial-scm.org/wiki/MercurialApi> and <https://www.mercurial-scm.org/wiki/CommandServer>).

```
# HG changeset patch
# User schlamar <marc.schlaich@gmail.com>
# Date 1527142395 -7200
# Thu May 24 08:13:15 2018 +0200
# Branch 3.4-stable
# Node ID ecbaecb1254177457490746a20060732b17fa642
# Parent 487d3d81d8a89f719f5e3d340472a13a29e1df62

diff -r 487d3d81d8a8 -r ecbaecb12541 lib/redmine/scm/adapters/mercurial/redminehelper.py
--- a/lib/redmine/scm/adapters/mercurial/redminehelper.py Sat Apr 07 12:26:31 2018 +0000
+++ b/lib/redmine/scm/adapters/mercurial/redminehelper.py Thu May 24 08:13:15 2018 +0200
@@ -54,6 +54,12 @@
 _x = cgi.escape
 _u = lambda s: cgi.escape(urllib.quote(s))

+def _changectx(repo, rev):
+    if hasattr(repo, 'changectx'):
+        return repo.changectx(rev)
+    else:
+        return repo[rev]
+
def _tip(ui, repo):
    # see mercurial/commands.py:tip
    def tiprev():
@@ -61,7 +67,7 @@
        return len(repo) - 1
        except TypeError: # Mercurial < 1.1
            return repo.changelog.count() - 1
-    tipctx = repo.changectx(tiprev())
+    tipctx = _changectx(repo, tiprev())
    ui.write('<tip revision="%d" node="%s"/>\n'
            % (tipctx.rev(), _x(node.hex(tipctx.node()))))

@@ -94,13 +100,18 @@
        return repo.branchheads(branch, closed=False)
        except TypeError: # Mercurial < 1.2
            return repo.branchheads(branch)
+    def lookup(rev):
+        try:
+            return repo.lookup(rev)
+        except RuntimeError:
+            return repo[rev]
```

```

for t, n, r in sorted(iterbranches(), key=lambda e: e[2], reverse=True):
-   if repo.lookup(r) in branchheads(t):
+   if lookup(r) in branchheads(t):
        ui.write('<branch revision="%d" node="%s" name="%s"/>\n'
                % (r, _x(node.hex(n)), _x(t)))

def _manifest(ui, repo, path, rev):
-   ctx = repo.changectx(rev)
+   ctx = _changectx(repo, rev)
        ui.write('<manifest revision="%d" path="%s">\n'
                % (ctx.rev(), _u(path)))

@@ -155,7 +166,7 @@
    """"diff repository (or selected files)""""
    change = opts.pop('change', None)
    if change: # add -c option for Mercurial<1.1
-   base = repo.changectx(change).parents()[0].rev()
+   base = _changectx(repo, change).parents()[0].rev()
        opts['rev'] = [str(base), change]
        opts['nodates'] = True
        return commands.diff(ui, repo, *map(urllib.unquote_plus, pats), **opts)

```

#2 - 2018-05-24 08:43 - Go MAEDA

- Target version set to Candidate for next minor release

Marc Schlaich, thank you for posting the patch. I will test with the latest version of Mercurial.

#3 - 2018-05-24 09:05 - Frédéric Fondement

Thanks a lot !

Redmine seems back to normal using this patch with HG 4.6 !

#4 - 2018-05-24 10:11 - Go MAEDA

Some tests still fail after applying the patch. Could you look into this?

{{collapse(failed tests)

```

$ hg --version
Mercurial Distributed SCM (version 4.6)
(see https://mercurial-scm.org for more information)

```

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```

$ find test/ -name '*mercurial*' | xargs -n1 ruby

```

Run options: --seed 24364

Running:

.....F

Failure:

MercurialAdapterTest#test_branches [test/unit/lib/redmine/scm/adapters/mercurial_adapter_test.rb:338]:

Expected: 7

Actual: 0

bin/rails test test/unit/lib/redmine/scm/adapters/mercurial_adapter_test.rb:333

.....F

Failure:

MercurialAdapterTest#test_branchmap [test/unit/lib/redmine/scm/adapters/mercurial_adapter_test.rb:372]:

--- expected

+++ actual

@@ -1 +1 @@

```
-{"default"=>"31eeee7395c8c78e66dd54c50add078d10b2355", "test_branch.latin-1"=>"c2ffe7da686aa3d956e59f2a2854cf8980a8b768",  
"branch (1)[2]&,%.-3_4"=>"afc61e85bde74de930e5846c8451bd55b5bafc9c",  
"test-branch-00"=>"3a330eb329586ea2adb3f83237c23310e744ebe9", "test-branch-01"=>"ad4dc4f80284a4f9168b77e0b6de288e5d207ee7",  
"branch-Ü-00"=>"c8d3e4887474af6a589190140508037ebaa9d9c3", "branch-Ü-01"=>"7bbf4c738e7145149d2e5eb1eed1d3a8ddd3b914"}  
+{}
```

bin/rails test test/unit/lib/redmine/scm/adapters/mercurial_adapter_test.rb:362

...

Finished in 11.952060s, 2.1754 runs/s, 42.6705 assertions/s.

26 runs, 510 assertions, 2 failures, 0 errors, 0 skips

Run options: --seed 46581

Running:

....F

Failure:

RepositoryMercurialTest#test_latest_changesets_default_branch_short_id [test/unit/repository_mercurial_test.rb:385]:

--- expected

+++ actual

@@ -1 +1 @@

```
-["31", "28", "24", "6", "4", "3", "2", "1", "0"]  
+["33", "32", "31", "30", "29", "28", "27", "26", "25", "24"]
```

bin/rails test test/unit/repository_mercurial_test.rb:378

.....F

Failure:

RepositoryMercurialTest#test_latest_changesets_branch [test/unit/repository_mercurial_test.rb:357]:

--- expected

```
+++ actual
@@ -1 +1 @@
-["27", "26"]
+["33", "32", "31", "30", "29", "28", "27", "26", "25", "24"]
```

bin/rails test test/unit/repository_mercurial_test.rb:349

.....F

Failure:

RepositoryMercurialTest#test_latest_changesets_default_branch [test/unit/repository_mercurial_test.rb:375]:

--- expected

+++ actual

```
@@ -1 +1 @@
```

```
-["31", "28", "24", "6", "4", "3", "2", "1", "0"]
```

```
+["33", "32", "31", "30", "29", "28", "27", "26", "25", "24"]
```

bin/rails test test/unit/repository_mercurial_test.rb:370

.....

Finished in 18.781790s, 2.1830 runs/s, 25.5034 assertions/s.

41 runs, 479 assertions, 3 failures, 0 errors, 0 skips

test/fixtures/repositories/mercurial_repository.hg:1:in `<main>': uninitialized constant HG10BZh91AY (NameError)

Run options: --seed 14690

Running:

...F

Failure:

RepositoriesMercurialControllerTest#test_show_tag [test/functional/repositories_mercurial_controller_test.rb:249]:

Expected response to be a <2XX: success>, but was a <404: Not Found>

bin/rails test test/functional/repositories_mercurial_controller_test.rb:235

.....F

Failure:

RepositoriesMercurialControllerTest#test_show_branch [test/functional/repositories_mercurial_controller_test.rb:228]:

Expected response to be a <2XX: success>, but was a <404: Not Found>

bin/rails test test/functional/repositories_mercurial_controller_test.rb:211

.

Finished in 18.196709s, 1.5937 runs/s, 17.0910 assertions/s.

29 runs, 311 assertions, 2 failures, 0 errors, 0 skips

}}

#5 - 2018-05-24 17:54 - Frédéric Fondement

Indeed, branches are not shown in 4.6

I got branches back with the following change in the patch:

```
+ def lookup(rev, n):  
+     try:  
+         return repo.lookup(rev)  
+     except RuntimeError:  
+         return n  
for t, n, r in sorted(iterbranches(), key=lambda e: e[2], reverse=True):  
-     if repo.lookup(r) in branchheads(t):  
+     if lookup(r, n) in branchheads(t):
```

But I have no idea whether this is correct !

#6 - 2018-05-24 23:53 - Go MAEDA

- File *fix-28725.diff* added
- Subject changed from *Mercurial 4.6 to Mercurial 4.6 compatibility*
- Target version changed from *Candidate for next minor release to 3.3.8*

Frédéric Fondement wrote:

```
| Indeed, branches are not shown in 4.6  
|  
| I got branches back with the following change in the patch:  
| [...]
```

Great, the updated patch passed all tests.

Setting target version to 3.3.8.

#7 - 2018-05-28 11:40 - Go MAEDA

- Status changed from *New to Resolved*
- Assignee set to *Go MAEDA*

#8 - 2018-05-28 13:54 - Go MAEDA

- Status changed from *Resolved to Closed*
- Resolution set to *Fixed*

Committed to the trunk and stable branches.

Thank you all for reporting and fixing this issue.

Files

fix-28725.diff	2.06 KB	2018-05-24	Go MAEDA
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