Redmine - Defect #5096
Redmine hangs up while browsing Git repository
2010-03-16 14:13 - Vladimir Babchuk

Status: Closed
Priority: Normal
Assignee: Toshi MARUYAMA
Category: SCM
Target version: 1.1.0
Resolution: Fixed

Start date: 2010-03-16
Due date: 
% Done: 50%
Estimated time: 0.00 hour
Affected version: 0.9.3

Description

git version 1.7.0.1
redmine version 0.9.3
rails are shipped with redmine (Rails 2.3.5)
ruby 1.8.7 (2009-12-24 patchlevel 248) [i386-freebsd8]
postgres (PostgreSQL) 8.2.15

other gems:
actionmailer (2.3.5, 2.3.4)
actionpack (2.3.5, 2.3.4)
activerecord (2.3.5, 2.3.4)
activeresource (2.3.5, 2.3.4)
activesupport (2.3.5, 2.3.4)
cgi_multipart_eof_fix (2.5.0)
daemons (1.0.10)
fastthread (1.0.7)
gem_plugin (0.2.3)
mongrel (1.1.5)
postgres (0.7.9.2008.01.28)
rack (1.1.0, 1.0.1)
rake (0.8.7)
sources (0.0.2)

While randomly browsing git repository whole site stops to respond.
While trying to stop mongrel I got this in production.log:

@Processing RepositoriesController#show (for 10.10.17.1 at 2010-03-16 15:01:43) [GET]
Parameters: {"action":"show", "id":"terminal-sdk", "controller":"repositories"}

Mongrel::TimeoutError (Mongrel timed out this thread: shutdown):
   lib/redmine/scm/adapters/git_adapter.rb:92:in `lastrev'
   lib/redmine/scm/adapters/git_adapter.rb:78
   lib/redmine/scm/adapters/git_adapter.rb:66:in `each_line'
   lib/redmine/scm/adapters/git_adapter.rb:66
   lib/redmine/scm/adapters/abstract_adapter.rb:193:in `call'
   lib/redmine/scm/adapters/abstract_adapter.rb:193:in `shellout'
   lib/redmine/scm/adapters/abstract_adapter.rb:191:in `popen'
   lib/redmine/scm/adapters/abstract_adapter.rb:191:in `shellout'
   lib/redmine/scm/adapters/git_adapter.rb:65:in `entries'
   app/models/repository.rb:63:in `entries'
   app/controllers/repositories_controller.rb:72:in `show'
Also tried to use Webrick. No difference.

Related issues:
Related to Redmine - Defect # 7047: Git adapter very slow when a commit modif...  New  2010-12-04

Associated revisions
Revision 4624 - 2011-01-03 11:45 - Toshi MARUYAMA
repository: git: change io.gets to io.readlines (#5404, #5096).

History
#1 - 2010-03-16 15:27 - Toshi MARUYAMA
Please see http://www.redmine.org/issues/4773#note-14 and try patch of #4773.

#2 - 2010-03-16 15:54 - Vladimir Babchuk
Toshi Maruyama wrote:

| Please see http://www.redmine.org/issues/4773#note-14 and try patch of #4773.

Patches didn't help.. (First patch was already in release, second - didn't help).
It seems that code hungs at call to shellout function:
Mongrel::TimeoutError (Mongrel timed out this thread: shutdown):
lib/redmine/scm/adapters/abstract_adapter.rb:191:in `shellout'
lib/redmine/scm/adapters/abstract_adapter.rb:177:in `shellout'
lib/redmine/scm/adapters/git_adapter.rb:92:in `lastrev'
lib/redmine/scm/adapters/git_adapter.rb:78
lib/redmine/scm/adapters/git_adapter.rb:66:in `each_line'
lib/redmine/scm/adapters/git_adapter.rb:66
lib/redmine/scm/adapters/abstract_adapter.rb:193:in `call'
lib/redmine/scm/adapters/abstract_adapter.rb:193:in `shellout'
lib/redmine/scm/adapters/abstract_adapter.rb:191:in `open'
lib/redmine/scm/adapters/abstract_adapter.rb:177:in `shellout'
lib/redmine/scm/adapters/git_adapter.rb:65:in `entries'
app/models/repository.rb:63:in `entries'
app/controllers/repositories_controller.rb:72:in `show'

#3 - 2010-03-16 15:57 - Toshi MARUYAMA
Vladimir Babchuk wrote:

| Patches didn't help.. (First patch was already in release, second - didn't help).

Sorry, patch is http://www.redmine.org/attachments/3272/git-fast-browse.patch .
Toshi Maruyama wrote:

Vladimir Babchuk wrote:

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Sorry, patch is http://www.redmine.org/attachments/3272/git-fast-browse.patch.

Thanks! That patch helped me.

But... it like a hack (now I can't see revision, comment and etc. in repo browser). So problem is still remained.

Any thoughts how to fix it right? I can tree it in free time, but i can't realize what is causes it.

If execute commands that executes shellout by hand - git exits instantly.

By default git uses less to page results, but I disabled it. What else can cause thread lockup?

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http://www.redmine.org/issues/4773#note-12

Actually, what is really slow when browsing a git repository is to get information about last change on each file using git log -n 1. When removing this, browsing is pretty fast. Maybe we should disable this.

Toshi Maruyama wrote:

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Yes, I see. But in my repository only near ~15 files and ~10 commits. It can't be parsed so long! I think - there are other cause of this problem.

Mitch Pirtle wrote:

I'm having the same performance problems related to git repositories. First the obligatory ENV schtuff:

- Redmine 0.9.2.devel.3437 (MySQL)
Troubling for me is how redmine completely blocks until this view is rendered, and we're talking several minutes.

#8 - 2010-07-19 23:12 - Felix Schäfer

Mitch Pirtle wrote:

```markdown
- Redmine 0.9.2.devel.3437 (MySQL)
```

Which has known performance issue with git, I don't they have been backported to 0.9.x, but definitely are in 1.0.x and trunk.

```
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```

What rails server do you use? If it's a single webrick or mongrel, that happens because multi-threading/multiple incoming connections are handled by spinning up more instances, which neither of both does on itself.

#9 - 2010-07-19 23:42 - Mitch Pirtle

Thanks for the explanation Felix.

This is a dev server running lighttpd, which probably explains the blocking.

Will update to trunk when I get the chance, as we could really use some relief.

#10 - 2010-11-16 09:17 - Toshi MARUYAMA

Redmine git adapter use "io.gets" at source:tags/1.0.3/lib/redmine/scm/adapters/git_adapter.rb lines 94.

It seems there is same problem with #6860. It may be we should use "io.each_line" instead of "io.gets".

#11 - 2010-11-23 09:37 - Toshi MARUYAMA

- File git-ios-gets.diff added
- % Done changed from 0 to 50

I create a patch replacing "io.gets" and I attach it.

#12 - 2011-01-03 12:14 - Toshi MARUYAMA
This issue's original problem seems to `io.gets()` problem.
I committed r4624 in svn trunk and r4627 in 1.1.
Git browsing performance issue is #7047.
I close this issue.

Files

<table>
<thead>
<tr>
<th>File</th>
<th>Size</th>
<th>Date</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>git-io-gets.diff</td>
<td>1.49 KB</td>
<td>2010-11-23</td>
<td>Toshi MARUYAMA</td>
</tr>
</tbody>
</table>