

Redmine - Defect #19305

settings: incompatible character encodings: UTF-8 and ASCII-8BIT: yaml generated on ruby 1.8

2015-03-08 14:50 - Anonymous

Status:	Closed	Start date:	
Priority:	High	Due date:	
Assignee:	Jean-Philippe Lang	% Done:	0%
Category:	Database	Estimated time:	0.00 hour
Target version:	2.6.3	Affected version:	2.6.2
Resolution:	Fixed		

Description

regression detected:

redmine 2.5.2 works fine, after upgrade to version 2.6.2 - can't enter to /settings, get 500 error in browser and such record in DEBUG production.log:

```
ActionView::Template::Error (incompatible character encodings: UTF-8 and ASCII-8BIT):
100:      ) >
101:    </td>
102:  <td>
103:    <= text_field_tag("settings[commit_update_keywords][keywords][]",
104:      rule['keywords'], :size => 30) %>
105:  </td>
106: <td>
```

bug cause:

this database record:

```
INSERT INTO `settings` VALUES (68,'commit_update_keywords','--- \n- keywords: !binary |\n  Zml4Z
XMsY2xvc2VzLNC40YHQv9GA0LDQstC70LXQvdC+LNCz0L7RgtC+0LLQ\n
  vizRgdC00LXQu9Cw0L3QvixmaXhlZA==\n\n  done_ratio: \"100\"\n  status_id: \"5\"\n','2014-04-02 22:
32:32');
```

- this database record works fine in redmine 2.5.2 and cause 500 internal server error in redmine 2.6.2.

how to make workaround:

1.

```
delete from settings where name='commit_update_keywords';
```
2.
restart redmine ("systemctl restart passenger@redmine" or something like this)
3.
enter into /settings url and recreate this record manually from redmine interface, and now - all works fine, no more 500 errors.

after manual fix / workaround database record for commit_update_keywords now looks like this:

```
INSERT INTO `settings` VALUES (75,'commit_update_keywords','---\n- status_id: \"5\"\n  done_ratio:
\"100\"\n  keywords: fixes,closes,исправлено,готово,сделано,fixed\n','2015-03-08 15:16:28');
```

P.S.

```
$ ruby script/about
```

```
Environment:
  Redmine version      2.6.2.stable
  Ruby version         2.0.0-p353 (2013-11-22) [x86_64-linux]
  Rails version        3.2.21
  Environment          production
  Database adapter     Mysql2
SCM:
  Subversion           1.7.14
  Git                  1.8.3.1
  Filesystem
Redmine plugins:
  redmine_agile        1.3.8
  redmine_contacts    3.4.4
  redmine_issue_favicon 0.0.1
  redmine_people       0.1.8
```

Related issues:

Related to Redmine - Defect #13617: Internal error on custom queries after Up... **Closed**

Associated revisions

Revision 14067 - 2015-03-08 17:28 - Jean-Philippe Lang

Make sure that strings of serialized settings are UTF-8 encoded (#19305).

Revision 14068 - 2015-03-08 18:41 - Jean-Philippe Lang

Reverts r14067 that triggers "can't modify frozen String" errors (#19305).

Revision 14112 - 2015-03-15 15:38 - Jean-Philippe Lang

Make sure that settings are unserialized as UTF-8 encoded strings (#19305).

Revision 14113 - 2015-03-15 19:13 - Jean-Philippe Lang

Merged r14112 (#19305).

Revision 14114 - 2015-03-15 19:13 - Jean-Philippe Lang

Merged r14112 (#19305).

Revision 14115 - 2015-03-15 20:56 - Jean-Philippe Lang

Compatibility with ruby1.8 (#19305).

Revision 14116 - 2015-03-15 21:26 - Jean-Philippe Lang

Merged r14115 (#19305).

Revision 14117 - 2015-03-15 21:27 - Jean-Philippe Lang

Reverts r14115 in trunk.

Revision 14119 - 2015-03-16 05:55 - Toshi MARUYAMA

2.6-stable: fix unit test on Ruby 1.8.7 (#19305)

History

#1 - 2015-03-08 16:13 - Toshi MARUYAMA

- Category changed from Administration to Database

- Status changed from New to Confirmed

#2 - 2015-03-08 16:19 - Toshi MARUYAMA

```
$ ruby --version
ruby 1.8.7 (2014-01-28 patchlevel 376) [x86_64-linux]
$ irb
1.8.7-head :001 > require 'yaml'
=> true
1.8.7-head :002 > puts YAML.dump([{'status_id' => '0'}, {'keywords' => 'fixes,closes,исправлено,готово,сделано,fixed'}])
---
```

```
- status_id: "0"
- keywords: !binary |
  Zml4ZXMsY2xvc2VzLNC40YHQv9GA0LDQstC70LXQvdC+LNCz0L7RgtC+0LLQ
  vizRgdC00LXQu9Cw0L3QvixmaXhlZA==

=> nil
```

#3 - 2015-03-08 16:44 - Anonymous

Toshi MARUYAMA wrote:

```
ruby 1.8.7 (2014-01-28 patchlevel 376) [x86_64-linux]
```

Inside redmine 2.5.2 container with CentOS 6 and ruby 1.8.7
I see exactly same output, but inside redmine 2.6.2 container
with CentOS 7 I am use different version of ruby
and see different YAML.dump() results:

```
$ rpm -q ruby
ruby-2.0.0.353-22.el7_0.x86_64
$ ruby --version
ruby 2.0.0p353 (2013-11-22) [x86_64-linux]
$ irb
irb(main):001:0> require 'yaml'
=> true
irb(main):002:0> puts YAML.dump({'status_id' => '0'}, {'keywords' => 'fixes, closes, исправлено, готово, сделано,
fixed'})
---
- status_id: '0'
- keywords: fixes, closes, исправлено, готово, сделано, fixed
=> nil
```

locale settings inside new 2.6.2 and old 2.5.2 redmine containers are identical:

```
$ locale
LANG=en_US.UTF-8
LC_CTYPE="en_US.UTF-8"
LC_NUMERIC="en_US.UTF-8"
LC_TIME="en_US.UTF-8"
LC_COLLATE="en_US.UTF-8"
LC_MONETARY="en_US.UTF-8"
LC_MESSAGES="en_US.UTF-8"
LC_PAPER="en_US.UTF-8"
LC_NAME="en_US.UTF-8"
LC_ADDRESS="en_US.UTF-8"
LC_TELEPHONE="en_US.UTF-8"
LC_MEASUREMENT="en_US.UTF-8"
LC_IDENTIFICATION="en_US.UTF-8"
LC_ALL=
```

#4 - 2015-03-08 17:14 - Toshi MARUYAMA

This is very dirty workaround.

```
diff --git a/app/models/setting.rb b/app/models/setting.rb
--- a/app/models/setting.rb
+++ b/app/models/setting.rb
@@ -96,6 +96,17 @@ class Setting < ActiveRecord::Base
  # Unserialize serialized settings
  v = YAML::load(v) if @@available_settings[name]['serialized'] && v.is_a?(String)
  v = v.to_sym if @@available_settings[name]['format'] == 'symbol' && !v.blank?
+ if v.is_a?(String) && v.respond_to?(:force_encoding)
+   v.force_encoding('UTF-8')
+ elsif v.is_a?(Array)
+   v.each do |i|
+     if i.is_a?(Hash)
+       i.each do |k, v1|
+         v1.force_encoding('UTF-8') if v1.is_a?(String) && v1.respond_to?(:force_encoding)
+       end
+     end
+   end
+ end
+ end
+ end
  v
```

end

#5 - 2015-03-08 17:15 - Toshi MARUYAMA

- Subject changed from *can't enter to /settings after upgrade from 2.5.2 to 2.6.2: ActionView::Template::Error (incompatible character encodings: UTF-8 and ASCII-8BIT)* to *incompatible character encodings: UTF-8 and ASCII-8BIT: yml generated on ruby 1.8*

#6 - 2015-03-08 17:17 - Toshi MARUYAMA

- Related to Defect #13617: *Internal error on custom queries after Upgrade 2.2 -> 2.3 added*

#7 - 2015-03-08 18:16 - Toshi MARUYAMA

- Target version set to 2.6.3

#8 - 2015-03-15 15:44 - Toshi MARUYAMA

- Subject changed from *incompatible character encodings: UTF-8 and ASCII-8BIT: yml generated on ruby 1.8* to *settings: incompatible character encodings: UTF-8 and ASCII-8BIT: yml generated on ruby 1.8*

#9 - 2015-03-15 19:14 - Jean-Philippe Lang

- Status changed from *Confirmed* to *Closed*

- Assignee set to *Jean-Philippe Lang*

- Resolution set to *Fixed*