

## Redmine - Defect #19305

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

2015-03-08 14:50 - Gena Makhomed

|                        |                    |                          |           |
|------------------------|--------------------|--------------------------|-----------|
| <b>Status:</b>         | Closed             | <b>Start date:</b>       |           |
| <b>Priority:</b>       | High               | <b>Due date:</b>         |           |
| <b>Assignee:</b>       | Jean-Philippe Lang | <b>% Done:</b>           | 0%        |
| <b>Category:</b>       | Database           | <b>Estimated time:</b>   | 0.00 hour |
| <b>Target version:</b> | 2.6.3              | <b>Affected version:</b> | 2.6.2     |
| <b>Resolution:</b>     | 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
Zml4ZXMsY2xvc2VzLNC40YHQv9GA0LDQstC70LXQvdC+LNCz0L7RgtC+0LLQ\n
vizRgdC00LXQu9Cw0L3QvixmaXhIZA==\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 U...

**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

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### #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
  vizRgdC00LXQu9Cw0L3QvixmaXhIZA==

=> nil
```

### #3 - 2015-03-08 16:44 - Gena Makhomed

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
  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*