Redmine - Defect #36226

Psych 4: Psych::DisallowedClass exception when unserializing a setting value

2021-11-23 07:53 - Go MAEDA

Status:	Closed		**Start date:**	
Priority:	Normal		**Due date:**	
Assignee:	Go MAEDA		**% Done:**	0%
Category:	Gems support		**Estimated time:**	0.00 hour
Target version:	4.1.6			
Resolution:	Fixed		**Affected version:**	

Description

Psych 4.0 uses safe_load by default (see https://github.com/ruby/psych/pull/487). Due to this change, Setting#value may raise Psych::DisallowedClass exception.

```
$ echo gem "'psych', '~> 4.0.0'" >> Gemfile.local
$ bundle install
$ bin/rails test test/functional/settings_controller_test.rb
Run options: --seed 45283

# Running:

...................E

Error:
SettingsControllerTest#test_post_plugin_settings:
Psych::DisallowedClass: Tried to load unspecified class: ActiveSupport::HashWithIndifferentAccess
    app/models/setting.rb:109:in `value'
    app/models/setting.rb:131:in `[]='
    app/models/setting.rb:326:in `plugin_foo='
    app/controllers/settings_controller.rb:73:in `plugin'
    lib/redmine/sudo_mode.rb:61:in `sudo_mode'
    test/functional/settings_controller_test.rb:244:in `test_post_plugin_settings'

rails test test/functional/settings_controller_test.rb:237
```

Related issues:

Related to Redmine - Feature #36205: Ruby 3.1 support	**Closed**
Has duplicate Redmine - Defect #36584: Error on creating custom fields using ...	**Closed**

Associated revisions

Revision 21294 - 2021-11-25 06:48 - Go MAEDA

Psych 4: Psych::DisallowedClass exception when unserializing a setting value (#36226).

Patch by Go MAEDA.

Revision 21404 - 2022-02-09 01:53 - Go MAEDA

Merged r21294 from trunk to 4.2-stable (#36226).

Revision 21406 - 2022-02-09 02:20 - Go MAEDA

Merged r21294 from trunk to 4.1-stable (#36226).

History

#1 - 2021-11-23 07:53 - Go MAEDA

- Related to Feature #34992: Ruby 3.0 support added

#2 - 2021-11-23 07:53 - Go MAEDA

- Related to deleted (Feature #34992: Ruby 3.0 support)

#3 - 2021-11-23 07:54 - Go MAEDA

- Related to Feature #36205: Ruby 3.1 support added

#4 - 2021-11-23 08:29 - Go MAEDA

- Target version set to 5.0.0

The following patch fixes the issue.

```
diff --git a/app/models/setting.rb b/app/models/setting.rb
index dfa054028..2b6a7a1ff 100644
--- a/app/models/setting.rb
+++ b/app/models/setting.rb
@@ -106,7 +106,8 @@ class Setting < ActiveRecord::Base
     v = read_attribute(:value)
     # Unserialize serialized settings
     if available_settings[name]['serialized'] && v.is_a?(String)
-      v = YAML::load(v)
+      # YAML.load is equivalent to YAML.safe_load in Pysch 4
+      v = YAML.respond_to?(:unsafe_load) ? YAML.unsafe_load(v) : YAML.load(v)
       v = force_utf8_strings(v)
     end
     v = v.to_sym if available_settings[name]['format'] == 'symbol' && !v.blank?
```

#5 - 2021-11-25 06:48 - Go MAEDA

- Status changed from New to Closed

- Assignee set to Go MAEDA

- Resolution set to Fixed

Committed the fix.

#6 - 2022-02-09 02:20 - Go MAEDA

- Target version changed from 5.0.0 to 4.1.6

#7 - 2022-02-20 08:58 - Go MAEDA

- Has duplicate Defect #36584: Error on creating custom fields using Ruby version 2.7.2 added