

Redmine - Feature #14534

Upgrade to Rails 4.2

2013-07-24 13:54 - Marwan Rabbaa

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Jean-Philippe Lang	% Done:	0%
Category:	Rails support	Estimated time:	0.00 hour
Target version:	3.0.0		
Resolution:	Fixed		

Description

Hi,

I want to run redmine on rails 4.
For me (a rails / ruby newbie), it was not a short time task ;), but I'm shure i will rage against this with you help.

I want completed 4 steps, and with it I can run my application, but I have a HTTP/500 error on the welcome controller.

Started GET "/" for 83.217.232.12 at 2013-07-24 13:38:04 +0200
Processing by WelcomeController#index as HTML
WARNING: Can't mass-assign protected attributes for Setting: name
app/models/setting.rb:173:in `find_or_default'
app/models/setting.rb:108:in `[]'
app/models/setting.rb:141:in `rest_api_enabled?'
app/controllers/application_controller.rb:106:in `find_current_user'
app/controllers/application_controller.rb:87:in `user_setup'
Completed 500 Internal Server Error in 3ms

NoMethodError (undefined method `[]' for nil:NilClass):
app/models/setting.rb:95:in `value'
app/models/setting.rb:108:in `[]'
app/models/setting.rb:141:in `rest_api_enabled?'
app/controllers/application_controller.rb:106:in `find_current_user'
app/controllers/application_controller.rb:87:in `user_setup'

- Firstly I remove version called in Gemfile for thos gems * rails * jquery-rails * i18n * coderay * fastercsv * builder
- Secondly, I have added 3 gems (because remove on rails core, for fourth version of this framework). * gem "protected_attributes" * gem "actionpack-action_caching", github: "rails/actionpack-action_caching" * gem "rails-observer"
- Thirdly, I have added **config.eager_load** to config/environments/*.rb (true on production, false on else)
- Fourthly (and I'm not sure of this), I have remove 3 migrations (I have ot skill to rewrite them) * 105_build_projects_tree.rb * 018_set_doc_and_files_notifications.rb * 20110228000100_copy_repositories_log_encoding.rb

Have you ever tried to migrate redmine to rails 4

Related issues:	
Related to Redmine - Feature #15367: Replace outdated awesome_nested_set by gem	Closed
Related to Redmine - Feature #14371: Drop Ruby 1.8.7 support	Closed
Related to Redmine - Feature #12097: Multi Thread Support	Closed
Related to Redmine - Defect #18174: Rails-4.1 branch merge into trunk (r13482...	Closed
Related to Redmine - Defect #18192: LDAP tests not running with Rails 4.1	Closed
Related to Redmine - Defect #18429: Error raised on project settings after pr...	Closed
Related to Redmine - Defect #18275: First argument in form cannot contain nil...	Closed
Has duplicate Redmine - Feature #14907: Rails 4.0 Support	Closed

Associated revisions

Revision 13232 - 2014-07-08 23:16 - Jean-Philippe Lang

Rails 4.1 branch

Revision 13233 - 2014-07-08 23:19 - Jean-Philippe Lang

Test suite passes with Rails 4.1.

Revision 13234 - 2014-07-08 23:35 - Jean-Philippe Lang

Fixed error on Project.rebuild_tree! during migration (#14534).

Revision 13235 - 2014-07-08 23:45 - Jean-Philippe Lang

Fixed default admin account creation during migration (#14534).

Revision 13482 - 2014-10-22 19:37 - Jean-Philippe Lang

Merged rails-4.1 branch (#14534).

Revision 13490 - 2014-10-22 21:34 - Jean-Philippe Lang

Fixed an SQL error with SQLServer (#14534).

Revision 13502 - 2014-10-24 04:48 - Toshi MARUYAMA

fix ja.yml and zh-TW.yml merge mistake of r13482 (#14534)

Revision 13544 - 2014-11-02 22:25 - Jean-Philippe Lang

Make sure that invalid cache from older versions is not used for languages_options (#14534).

Revision 13790 - 2014-12-22 14:41 - Jean-Philippe Lang

XML parameters parser extracted to actionpack-xml_parser gem in Rails 4 (#14534).

Revision 13892 - 2015-01-17 18:02 - Jean-Philippe Lang

Upgrade to Rails 4.2.0 (#14534).

Revision 13894 - 2015-01-18 10:04 - Jean-Philippe Lang

Fix migration and use Rails 4.2.0 release (#14534).

Revision 13896 - 2015-01-18 12:43 - Jean-Philippe Lang

Use attribute writers instead of before_create callback to normalize comments and committer (#14534).

Unlike other adapters, SQLite raises Encoding::UndefinedConversionError before the callback that reencodes attributes is called.

Revision 13902 - 2015-01-18 17:16 - Jean-Philippe Lang

Make sure that #scm_iconv returns a string with the target encoding (#14534).

filechanges.find_by_revision_and_path fails with SQLite if arguments are not UTF-8 encoded.

Revision 13943 - 2015-01-24 22:39 - Jean-Philippe Lang

Require rbpdf 1.18.5 that is Rails 4.2 compatible (#14534).

Revision 14136 - 2015-03-20 08:26 - Toshi MARUYAMA

revert r13896 (#14534)

Revision 14145 - 2015-03-20 11:47 - Toshi MARUYAMA

Merged r14136 from trunk to 3.0-stable.

revert r13896 (#14534)

History

#1 - 2013-07-29 05:31 - Toshi MARUYAMA

- Subject changed from Running redmine on rails 4 to Rails 4 porting

- Priority changed from Urgent to Normal

#2 - 2013-09-15 10:38 - Sergiy Nazarov

[#14907](#) - migrate redmine to rails 4

#3 - 2013-09-15 11:32 - Toshi MARUYAMA

- Related to Feature #14907: Rails 4.0 Support added

#4 - 2013-09-15 11:32 - Toshi MARUYAMA

- Related to deleted (Feature #14907: Rails 4.0 Support)

#5 - 2013-09-15 11:33 - Toshi MARUYAMA

- Has duplicate Feature #14907: Rails 4.0 Support added

#6 - 2013-10-24 09:13 - Ondřej Surý

Hi,

just checking if there's a plan to add the Rails 4 support yet to do some next-stable Debian release planning.

New rack 1.5 broke rails-3.2, and we would really like to release next stable Debian with as latest rails release as possible by our reverse dependencies.

There's still some time left (about a year) before the archive is frozen, but I would like to be assured that everything will be solved by that time.

Thanks,
O.

#7 - 2013-12-21 03:30 - Toshi MARUYAMA

- Blocked by Feature #12097: Multi Thread Support added

#8 - 2013-12-23 06:02 - Toshi MARUYAMA

This is first Rails4 porting revision.

- Git
 - <https://github.com/marutosi/redmine/commit/10fcc9f9a80a97467f660536e0558a0560287c8d>
- Mercurial
 - <https://bitbucket.org/marutosi/redmine-bb-rails4-20131223/commits/060bfbc2061af1508a02b72cd18b6d794a32dfe>

Current status

- can run db migrate
- can boot
- can show top page

These are unit test results.

- deprecation warning off
 - <https://drone.io/bitbucket.org/marutosi/redmine-bb-rails4-20131223/1>
- deprecation warning on
 - <https://drone.io/bitbucket.org/marutosi/redmine-bb-rails4-20131223/2>

#9 - 2013-12-27 08:50 - Toshi MARUYAMA

I rebased on [r12470](#).

- Git
 - <https://github.com/marutosi/redmine/commit/966eb938ca350fe8fd84377dedc19009c3e64606>
- Mercurial
 - <https://bitbucket.org/marutosi/redmine-bb-rails4-20131227/commits/3ba8aaf0b8047468bd33f320f987470c6ef3dd6b>

These are unit test results.

- deprecation warning off
 - <https://drone.io/bitbucket.org/marutosi/redmine-bb-rails4-20131227/1>
- deprecation warning on
 - <https://drone.io/bitbucket.org/marutosi/redmine-bb-rails4-20131227/2>

Rails4 uses **strong parameter** by default.

But, Redmine has many **ActiveRecord.new** and **ActiveRecord.create** at tests.

For examples: [source:tags/2.4.2/test/unit/issue_test.rb#L52](https://source.ruby-lang.org/ruby-devel/2.4.2/test/unit/issue_test.rb#L52)

So, I use **config.active_record.whitelist_attributes = false**.

#10 - 2014-01-11 13:22 - Toshi MARUYAMA

I rebased on [r12644](#).

- Git
 - <https://github.com/marutosi/redmine/commit/ab8c95e689318918c67a24cb39ee354f06ff8a0c>
- Mercurial
 - <https://bitbucket.org/marutosi/redmine-bb-rails4-20140111/commits/c235622c27a703852dd3598b911e6ab05a3a300d>
- Tests on Travis
 - <https://travis-ci.org/marutosi/redmine/builds/16771904>

I removed almost all deprecating warnings.

But, **awesome_nested_set** and **acts_as_activity_provider** have many deprecating warnings.

So, I use ActiveSupport::Deprecation.silence.

```
ActiveSupport::Deprecation.silence do
  scope.all(provider_options[:find_options].dup)
end
```

awesome_nested_set master branch requires Rails4.

<https://travis-ci.org/marutosi/redmine/builds/16771785>

Redmine on Rails3 tests fail on awesome_nested_set 2-1-stable branch.

<https://travis-ci.org/marutosi/redmine/builds/16771672>

#11 - 2014-01-30 02:47 - Toshi MARUYAMA

- Related to Feature #15367: Replace outdated awesome_nested_set by gem added

#12 - 2014-02-15 08:46 - Jean-Philippe Lang

- Subject changed from Rails 4 porting to Upgrade to Rails 4

- Target version set to 3.0.0

#13 - 2014-02-15 09:11 - Toshi MARUYAMA

I rebased on trunk [r12884](#).

- Git
 - <https://github.com/marutosi/redmine/commit/ab9ccb153927fc056ec1e8be9e18ba9d24603e77>
- Mercurial
 - <https://bitbucket.org/marutosi/redmine-bb-rails4-20140214/commits/aeb8bc4b4cfec7f74af80f9f846b6dd3d7ff7fb>
- Tests on Travis
 - <https://travis-ci.org/marutosi/redmine/builds/18922992>

Previous revision uses awesome_nested_set 2.1.6 removing Rails4 deprecate warning.

Gemfile:

```
gem "awesome_nested_set",
  :git => "git://github.com/marutosi/awesome_nested_set.git",
  # PR 230, 231 and 232
  :ref => "4c4fdfe80f7451b"
```

So, DB migration of PostgreSQL fails.

<https://travis-ci.org/marutosi/redmine/jobs/18922993>

```
== 105 BuildProjectsTree: migrating =====
```

rake aborted!

An error has occurred, this and all later migrations canceled:

```
PG::GroupingError: ERROR: column "projects.id" must appear
in the GROUP BY clause or be used in an aggregate function
```

```
LINE 1: ...lft" HAVING COUNT("projects"."lft") > 1 ORDER BY "projects"...
```

```
^
```

```
: SELECT "projects"."lft", COUNT("projects"."lft") FROM "projects"
GROUP BY "projects"."lft" HAVING COUNT("projects"."lft") > 1
ORDER BY "projects"."id" ASC LIMIT 1
/home/travis/.rvm/gems/ruby-1.9.3-p484/bundler/gems/rails-702f3dca61f1/activerecord/lib/active_record/connection_adapters/postgresql_adapter.rb:791:in `async_exec'
```

awesome_nested_set master branch and 2-1-stable branch have regression.

- 2-1-stable: fix ActiveRecord::StatementInvalid: Error: Column 'lft' in order clause is ambiguous
 - https://github.com/collectiveidea/awesome_nested_set/pull/235

So, tests using awesome_nested_set master branch fails.

- <https://github.com/marutosi/redmine/commit/9d3d630b1b7be82cadd6521c81dd9f4254513c91>
- <https://travis-ci.org/marutosi/redmine/builds/18923425>

#14 - 2014-02-15 09:28 - Jean-Philippe Lang

Gemfile:

```
gem "awesome_nested_set",
:git => "git://github.com/marutosi/awesome_nested_set.git",
# PR 230, 231 and 232
:ref => "4c4fdfe80f7451b"
```

I don't like that, we should either use the official gem or bundle it in Redmine as it was before with the appropriate fix.

#15 - 2014-05-26 06:08 - Toshi MARUYAMA

I rebased on [r13171](#).

- Git
 - <https://github.com/marutosi/redmine/commit/064007e5cb0504db6f1920fb59f3396172f65c16>
- Mercurial
 - <https://bitbucket.org/marutosi/redmine-bb-rails4-20140526/commits/92689ce415c397afeee9717085461670cfe09e60>
- Tests on Travis
 - <https://travis-ci.org/marutosi/redmine/builds/25998084>

#16 - 2014-06-24 13:39 - Ondřej Surý

JFTR now that rails 4.1 is out - redmine should target rails 4.1 instead of rails 4.0.

Do you have any idea when that happens?

#17 - 2014-07-08 23:22 - Jean-Philippe Lang

- Subject changed from Upgrade to Rails 4 to Upgrade to Rails 4.1

4.1 indeed. It should happen in fall.

#18 - 2014-07-09 13:54 - Jean-Philippe Lang

[toshio harita](#), we're not targeting Rails 4.0. The branch /sandbox/rails-4.1 is working with Rails 4.1, please don't make changes for 4.0 compatibility/warnings.

#19 - 2014-07-09 16:55 - Toshi MARUYAMA

Sorry.

I need feedback to Rails team that JPL fixed this Rails 4.0 issue.

<https://github.com/rails/rails/issues/15471>

And I need feedback to awesome_nested_set author.

https://github.com/collectiveidea/awesome_nested_set/pull/242

There is only one DEPRECATION WARNING on Rails 4.0.

<https://travis-ci.org/marutosi/redmine/jobs/29510718#L2074>

```
DEPRECATION WARNING: You didn't set config.secret_key_base.
Read the upgrade documentation to learn more about this new config option.
(called from env_config
  at /home/travis/.rvm/gems/ruby-1.9.3-p545/gems/railties-4.0.8/lib/rails/application.rb:141)
```

#20 - 2014-07-13 12:49 - Toshi MARUYAMA

On [r13312](#), some tests fail on Travis.

<https://travis-ci.org/marutosi/redmine-bb/jobs/29816929>

On my console, following test fails

```
$ ruby test/unit/issue_test.rb
1) Failure:
IssueTest#test_visible_scope_for_member_with_groups_should_return_assigned_issues [test/unit/issue_test.rb:295]:
Failed assertion, no message given.
```

#21 - 2014-07-18 18:35 - Saimon Lovell

Any news on if RedMine will migrate to Rails 4.1?
So far there has been 3 updates (4.1.4) over time and changes are not feature breaking.
I would recommend now would be a good time to start migrating to rails 4.1

I am going to give it a shot and see how far I can go.

#22 - 2014-08-06 10:08 - Toshi MARUYAMA

- Related to Feature #14371: Drop Ruby 1.8.7 support added

#23 - 2014-10-15 20:45 - Robert Weclawski

Saimon Lovell wrote:

Any news on if RedMine will migrate to Rails 4.1?
So far there has been 3 updates (4.1.4) over time and changes are not feature breaking.
I would recommend now would be a good time to start migrating to rails 4.1

I am going to give it a shot and see how far I can go.

Hi Saimon,
any progress on that ? If you got some repo on github for that please let me know.
I would be quite happy if I could help.

--

Regards,
Robert

#24 - 2014-10-16 04:49 - Toshi MARUYAMA

Robert Weclawski wrote:

any progress on that ? If you got some repo on github for that please let me know.

- <https://github.com/marutosi/redmine-bb/commits/bb-svn-rails4.1>
- <https://bitbucket.org/marutosi/redmine-bb-svn-rails.4.1>

#25 - 2014-10-22 09:34 - Toshi MARUYAMA

- Blocked by deleted (Feature #12097: Multi Thread Support)

#26 - 2014-10-22 09:35 - Toshi MARUYAMA

- Related to Feature #12097: Multi Thread Support added

#27 - 2014-10-24 20:48 - Jean-Philippe Lang

- Related to Defect #18174: Rails-4.1 branch merge into trunk (r13482) reverts trunk commits added

#28 - 2014-10-24 20:49 - Jean-Philippe Lang

- Status changed from New to Closed

- Resolution set to Fixed

#29 - 2014-10-24 23:02 - Jean-Philippe Lang

- Related to Defect #18192: LDAP tests not running with Rails 4.1 added

#30 - 2014-11-28 10:39 - Jean-Philippe Lang

- Related to Defect #18429: Error raised on project settings after project wiki is deleted added

#31 - 2014-11-28 10:40 - Jean-Philippe Lang

- Related to Defect #18275: First argument in form cannot contain nil or be empty error on revision view added

#32 - 2014-12-14 15:08 - Jean-Philippe Lang

- Subject changed from Upgrade to Rails 4.1 to Upgrade to Rails 4.2

- Status changed from Closed to Reopened

Rails 4.2 is about to be released and will be the last 4.x branch. When Rails 5 is out, only Rails 4.2 will get bug fixes (security fixes only for previous versions). So we should target Rails 4.2 for Redmine 3.x.

#33 - 2014-12-21 20:15 - Jean-Philippe Lang

I've done the upgrade to Rails 4.2 (not yet committed) but there are still some issues:

- latest release of awesome_nested_set (3.0.1) is not compatible, this patch is needed:
https://github.com/collectiveidea/awesome_nested_set/commit/2f3f28baf71f4964cedcc2548b51e2a4671e8e10
- the rbpdf gem uses ActionView::Base.sanitized_allowed_css_properties= which is deprecated in Rails 4.2
- the sqlserver adapter is not compatible with Rails 4.2, so no SQLServer support for now:
<https://github.com/rails-sqlserver/activerecord-sqlserver-adapter/issues/367>

#34 - 2014-12-24 01:49 - Toshi MARUYAMA

Jean-Philippe Lang wrote:

- latest release of awesome_nested_set (3.0.1) is not compatible, this patch is needed:
https://github.com/collectiveidea/awesome_nested_set/commit/2f3f28baf71f4964cedcc2548b51e2a4671e8e10

I reported awesome_nested_set 3.0.1 break Redmine.

https://github.com/collectiveidea/awesome_nested_set/issues/280

#35 - 2014-12-24 01:51 - Toshi MARUYAMA

- Resolution deleted (Fixed)

#36 - 2014-12-24 13:07 - Jean-Philippe Lang

Toshi MARUYAMA wrote:

I reported awesome_nested_set 3.0.1 break Redmine.
https://github.com/collectiveidea/awesome_nested_set/issues/280

The error you reported should be fixed in Redmine.

The error with awesome_nested_set 3.0.1 and Rails4.2 is: NoMethodError: undefined method `join_sql' for #<Arel::SelectManager:0xa907c58>.
#join_sql was replaced in the above commit:

https://github.com/collectiveidea/awesome_nested_set/commit/2f3f28baf71f4964cedcc2548b51e2a4671e8e10

#37 - 2015-01-16 07:38 - Mischa The Evil

Jean-Philippe Lang wrote:

I've done the upgrade to Rails 4.2 (not yet committed) but there are still some issues:

- latest release of awesome_nested_set (3.0.1) is not compatible, this patch is needed:
https://github.com/collectiveidea/awesome_nested_set/commit/2f3f28baf71f4964cedcc2548b51e2a4671e8e10

This is no longer an issue due to [#18860](#).

- the rbpdf gem uses ActionView::Base.sanitized_allowed_css_properties= which is deprecated in Rails 4.2

I've relayed this issue to Jun as <https://github.com/naitoh/rbpdf/issues/8>.

#38 - 2015-01-18 08:30 - Toshi MARUYAMA

On [r13893](#), PostgreSQL migration fails.

<https://travis-ci.org/marutosi/redmine-bb/jobs/47402990#L1278>

```
== 20091114105931 AddViewIssuesPermission: migrating =====  
  
rake aborted!  
  
StandardError: An error has occurred, this and all later migrations canceled:  
  
can't convert Symbol into String  
/home/travis/build/marutosi/redmine-bb/app/models/role.rb:99:in `include?'
```

#39 - 2015-01-18 08:51 - Toshi MARUYAMA

I have created issue on Rails GitHub.

Rails 4.2 SQLite3 regression: Encoding::UndefinedConversionError: "\xE9" from ASCII-8BIT to UTF-8
<https://github.com/rails/rails/issues/18580>

#40 - 2015-01-18 21:33 - Jean-Philippe Lang

I've reported another regression with sqlite:
<https://github.com/rails/rails/issues/18585>

#41 - 2015-01-21 17:38 - Toshi MARUYAMA

On console, IssueTest#test_visible_scope_for_member_with_groups_should_return_assigned_issues always fails.

```
1) Failure:  
IssueTest#test_visible_scope_for_member_with_groups_should_return_assigned_issues [test/unit/issue_test.rb:324  
]:  
Failed assertion, no message given.
```

#42 - 2015-01-24 17:03 - Jun NAITOH

Mischa The Evil wrote:

Jean-Philippe Lang wrote:

- the rbpdf gem uses ActionView::Base.sanitized_allowed_css_properties= which is deprecated in Rails 4.2

I've relayed this issue to Jun as <https://github.com/naitoh/rbpdf/issues/8>.

This problem fixed by rbpdf 1.18.5.
please bundle update.

#43 - 2015-01-24 22:40 - Jean-Philippe Lang

Jun NAITOH wrote:

This problem fixed by rbpdf 1.18.5.
please bundle update.

Gemfile updated to ~>1.18.5, thanks!

#44 - 2015-02-08 18:43 - Jean-Philippe Lang

- Status changed from Reopened to Closed
- Assignee set to Jean-Philippe Lang
- Resolution set to Fixed

SQLServer compatibility is now fixed.

#45 - 2015-02-18 15:44 - Toshi MARUYAMA

This issue is closed and we dropped awesome_nested_set gem ([#18860](#)) in [3.0.0](#).
But I record some my works.

Jean-Philippe Lang wrote:

Toshi MARUYAMA wrote:

I reported awesome_nested_set 3.0.1 break Redmine.
https://github.com/collectiveidea/awesome_nested_set/issues/280

The error you reported should be fixed in Redmine.

Following change fixes on Redmine trunk [r13839](#) (last trunk revision with awesome_nested_set) with awesome_nested_set 3.0.1.

```
diff --git a/app/models/issue.rb b/app/models/issue.rb
--- a/app/models/issue.rb
+++ b/app/models/issue.rb
@@ -185,7 +185,7 @@ class Issue < ActiveRecord::Base
  # the lock_version condition should not be an issue but we handle it.
  def destroy
    super
-   rescue ActiveRecord::RecordNotFound
+   rescue ActiveRecord::StaleObjectError, ActiveRecord::RecordNotFound
    # Stale or already deleted
    begin
      reload
```

But awesome_nested_set 3.0.2 breaks Redmine.

```
1) Error:
IssueTest#test_visible_and_nested_set_scopes:
ActiveRecord::ActiveRecordError: Impossible move, target node cannot be inside moved tree.
  app/models/issue.rb:1374:in `update_nested_set_attributes'
  app/models/issue.rb:173:in `create_or_update'
  test/object_helpers.rb:93:in `generate!'
  test/unit/issue_test.rb:360:in `test_visible_and_nested_set_scopes'
```

This is caused by this change.
https://github.com/collectiveidea/awesome_nested_set/commit/87d8c7cc94eadf08

#46 - 2015-08-24 16:01 - Etienne Massip

Jean-Philippe Lang wrote:

SQLServer compatibility is now fixed.

As Toshi noticed ([Redmine 3.0 problem with MSSQL 2008](#)) they chose to break compatibility with MSSQL < 2012 which is a bit brutal.

Specifying Rails ~> 4.1 in Gemfile seems to do the trick with trunk @ [r14520](#), do you know if some of the changes that were made when switching from 4.1 to 4.2 aren't 4.1 compatible?

#47 - 2015-09-16 11:30 - Toshi MARUYAMA

Etienne Massip wrote:

Specifying Rails ~> 4.1 in Gemfile seems ...

FTR: [#20603](#)