

## Redmine - Feature #36320

### Migrate to Rails 7.1

2021-12-15 05:03 - Go MAEDA

<b>Status:</b>	Reopened	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Marius BĂLTEANU	<b>% Done:</b>	0%
<b>Category:</b>	Rails support	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	6.0.0		
<b>Resolution:</b>	Fixed		
<b>Description</b>			
<b>Related issues:</b>			
Related to Redmine - Patch #36317: Set default protect from forgery true		Closed	
Related to Redmine - Patch #36355: Update roadie-rails to 3.0		Closed	
Related to Redmine - Patch #35536: Use webpack to improve javascripts and sty...		New	
Related to Redmine - Patch #39110: Replacing request_store with ActiveSupport...		Closed	
Related to Redmine - Defect #37732: Fix "DEPRECATION WARNING: Rendering actio...		Closed	
Related to Redmine - Defect #39760: Some API tests fail with Ruby 2.7		Closed	
Related to Redmine - Defect #39747: Diff of a javascript file in repository m...		Closed	
Related to Redmine - Defect #39803: Plugin modules no longer working		Needs feedback	
Related to Redmine - Defect #39834: Extract tests for plugin autoloading and ...		Closed	
Related to Redmine - Patch #40148: Update activerecord-sqlserver-adapter to 7.1		Closed	
Related to Redmine - Patch #40210: Remove overrides that inserts a non-breaki...		Closed	

#### Associated revisions

##### Revision 22488 - 2023-11-27 21:58 - Marius BĂLTEANU

Updates Rails to 7.1.2 (#36320).

Patch by Takashi Kato.

##### Revision 22489 - 2023-11-29 08:11 - Marius BĂLTEANU

Revert r21883 which was an workaround for #37626 (#37732, #36320).

##### Revision 22490 - 2023-11-30 09:28 - Go MAEDA

Update RuboCop target Rails version to 7.1 (#36320).

##### Revision 22493 - 2023-12-01 07:59 - Go MAEDA

Fix deprecation warnings regarding the use of ActiveSupport::Deprecation.behavior (#39527, #36320).

##### Revision 22505 - 2023-12-10 04:10 - Marius BĂLTEANU

Fix autoloading of plugins fails in Rails 7.1.2 (#36320).

Patch by Mizuki ISHIKAWA.

##### Revision 22506 - 2023-12-10 04:24 - Marius BĂLTEANU

Fix typo (#36320).

##### Revision 22507 - 2023-12-10 04:34 - Marius BĂLTEANU

Allows configure plugins directory path in order to change the default location in test environment (#36320).

Patch by @tohosaku.

##### Revision 22508 - 2023-12-10 04:41 - Marius BĂLTEANU

Adds test for plugin autoloading plugins issue (#36320).

Patch by @tohosaku.

**Revision 22509 - 2023-12-10 05:01 - Marius BĂLTEANU**

Fix failing API tests on Ruby 2.7 after migration to Rails 7.1 (#36320, #39760).

Patch by @maeda-m.

**Revision 22510 - 2023-12-11 08:49 - Marius BĂLTEANU**

Remove unnecessary line that changes the PluginLoader directory inside plugins\_test.rb (#36320).

**Revision 22513 - 2023-12-11 11:56 - Marius BĂLTEANU**

Refactor integration test for plugins routing (added in r22328) in order to use the new plugins directory path for test environment (#36320).

**Revision 22514 - 2023-12-11 11:57 - Marius BĂLTEANU**

Block rack-session gem version to 1 in order to stick with Rack 2 (#36320).

Patch by @maeda-m.

**Revision 22515 - 2023-12-12 17:26 - Marius BĂLTEANU**

Reverts r22507, r22508 and r22510 (#36320, #39803).

**Revision 22516 - 2023-12-12 17:45 - Marius BĂLTEANU**

Update integration test for plugin routes after r22515 (#36320, #39803).

**Revision 22517 - 2023-12-12 17:52 - Marius BĂLTEANU**

Fix NoMethodError: undefined method `rake\_run' for Rails::TestUnit::Runner::Class (NoMethodError) after updating to Rails 7.1 (#36320, #39803)

Patch by @tohosaku.

**Revision 22518 - 2023-12-12 18:56 - Marius BĂLTEANU**

Replaces config.cache\_classes which the new option config.enable\_reloading introduced in Rails 7.1 (#36320)

**Revision 22519 - 2023-12-14 08:10 - Marius BĂLTEANU**

Revert r22514 (#36320).

**Revision 22520 - 2023-12-14 08:13 - Marius BĂLTEANU**

Fixes random failing test by using async\_count in order to avoid query caching (#36320).

Patch by @maeda-m.

**Revision 22522 - 2023-12-17 16:05 - Marius BĂLTEANU**

Adds test for plugin autoload issue (#36320, #39834).

Patch by @tohosaku.

**Revision 22523 - 2023-12-19 10:43 - Go MAEDA**

Fix RuboCop offense Layout/EmptyLineAfterMagicComment (#36320, #39834).

**Revision 22524 - 2023-12-20 04:19 - Marius BĂLTEANU**

Fixes that redmine:plugins:test should run plugins unit, functional, integration and system tests in one single test session instead of one session for each type of test. This behaviour was changed in Rails 7.1 because rake test and rails test are integrated (#39803, #36320).

**Revision 22525 - 2023-12-20 04:30 - Marius BĂLTEANU**

Run plugin tests only if test files exist (#39803, #36320).

**Revision 22526 - 2023-12-20 05:35 - Marius BĂLTEANU**

Update Rails UJS to 7.1.2 (#36320).

**Revision 22555 - 2023-12-24 17:39 - Marius BĂLTEANU**

Updates subversion repository fixture with test data for #39747 (#39747, #36320).

**Revision 22556 - 2023-12-24 17:44 - Marius BĂLTEANU**

Updates number of subversion revisions in test/unit/repository\_subversion\_test.rb (#39747, #36320).

**Revision 22557 - 2023-12-25 02:57 - Marius BĂLTEANU**

Updates number of subversion filechanges in test\_fetch\_changesets\_from\_scratch (#39747, #36320).

**Revision 22563 - 2023-12-26 16:47 - Marius BĂLTEANU**

Fixes that diff of a javascript file in repository module is not displayed with layout in Rails 7.1 (#39747, #36320).

**Revision 22564 - 2023-12-27 02:17 - Go MAEDA**

Fix RuboCop offense Layout/EmptyLinesAroundClassBody introduced in r22562 (#39747, #36320).

**Revision 22565 - 2023-12-27 07:02 - Go MAEDA**

Fix RuboCop offense Style/HashSyntax (Don't mix styles in the same hash) introduced in r22563 (#39747, #36320).

**Revision 22615 - 2024-01-21 04:58 - Go MAEDA**

Remove backported Rack::RewindableInput.size method due to Rack 3.0 migration (#36320).

**Revision 22656 - 2024-01-28 08:32 - Go MAEDA**

Update Rails to 7.1.3 (#36320).

**Revision 22665 - 2024-01-30 04:35 - Go MAEDA**

Update activerecord-sqlserver-adapter to 7.1 (#40148, #36320).

Patch by Yuichi HARADA (@yui.har).

**Revision 22736 - 2024-02-26 07:17 - Marius BĂLTEANU**

Reverts r22656 until Rails 7.1.4 is released (#36320).

**History**

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**#1 - 2021-12-15 05:03 - Go MAEDA**

- Related to Patch #36317: Set default protect from forgery true added

**#2 - 2021-12-25 09:31 - Go MAEDA**

- Related to Patch #36355: Update roadie-rails to 3.0 added

**#3 - 2022-01-05 07:57 - Marius BĂLTEANU**

- Related to Patch #35536: Use webpack to improve javascripts and stylesheets management added

**#4 - 2022-03-20 09:39 - Go MAEDA**

- Target version changed from Unplanned backlogs to 6.0.0

**#5 - 2022-04-10 15:37 - Takashi Kato**

- File 0001-Upgrade-to-Rails-7.patch added

- File 0002-Fix-deprecation-warning.patch added

- File 0003-Replace-to\_s-db-to-to\_fs-db.patch added

- File 0004-Use-Selenium-WebDriver-Wait.patch added

Simple migration patches.

patches can be applied to [r21527](#)

**#6 - 2022-05-04 10:26 - Go MAEDA**

Thank you for posting the patches.

I think we have to wait until the release of Redmine 5.1.0 to upgrade Rails because 5.1.0 should be Rails 6.1 based.

**#7 - 2023-09-24 17:42 - Takashi Kato**

- File 0001-Upgrade-to-rails-7.1-beta1.patch added

I've updated a patch that is compatible with Rails 7.1 beta. As for the WebDriver patch, I have linked it to [another issue 37558](#).

**#8 - 2023-11-14 10:54 - Jun NAITOH**

<https://endoflife.date/rails>

6.1  
(01 Jun 2024)

<https://github.com/rails/rails/pull/46895#issuecomment-1673353127>

6.1 is not getting anymore releases unless it's a severe vulnerability and will be EOL next June.

I think Redmine needs to upgrade to Rails 7 before Rails 6.1 EOL.

**#9 - 2023-11-17 04:35 - M T**

Not a bad effort there [Takashi Kato](#), I gave your patch a quick go with Rails 7.1 and it seemed to work with standard Redmine 5.1 release branch.

However one thing that got broke is the autoloading of classes and modules from plugin folders, not sure why. Perhaps you could check this out... I know there have been some subtle changes in this area in Rails. (Also is there a reason you deleted the zeitwerk config line?)

Cheers  
MT

**#10 - 2023-11-17 06:14 - Minoru Maeda**

- File 20231117\_36320.patch added

Takashi Kato wrote in [#note-7](#):

I've updated a patch that is compatible with Rails 7.1 beta. As for the WebDriver patch, I have linked it to [another issue 37558](#).

Thank you for the great patch. I applied the 0001-Upgrade-to-rails-7.1-beta1.patch to r22429@trunk and ran tests, but some of them failed.

- test/integration/sudo\_mode\_test.rb
  - I think this is the behavior reported at <https://www.redmine.org/issues/39110>.
- test/integration/api\_test/my\_test.rb and test/integration/api\_test/news\_test.rb
  - It seems there is a problem where XML and JSON requests don't return the expected content-type.
- test/unit/project\_nested\_set\_concurrency\_test.rb:34
  - It looks like assert\_difference is evaluated without waiting for the Thread to finish.

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Based on the patch you posted, I made corrections so that test/integration/api\_test would pass. Also, I updated to Rails v7.1.2, which was released on November 10, 2023.

However, the failures in test/integration/sudo\_mode\_test.rb and test/unit/project\_nested\_set\_concurrency\_test.rb have not been resolved.

I hope this helps.

**#11 - 2023-11-17 08:27 - Marius BĂLTEANU**

- Assignee set to Marius BĂLTEANU

**#12 - 2023-11-20 01:24 - Marius BĂLTEANU**

- Related to Patch #39110: Replacing request\_store with ActiveSupport::CurrentAttributes added

**#13 - 2023-11-27 22:01 - Marius BĂLTEANU**

- Subject changed from Migrate to Rails 7 to Migrate to Rails 7.1

- Status changed from New to Resolved

- Resolution set to Fixed

I've committed the patch that updates Rails to 7.1.2 on trunk. Thanks Takashi Kato for your work!

#### #14 - 2023-11-28 13:13 - Takashi Kato

- File 0001-Fix-autoloading-plugin-classes.patch added

A fix included in rails 7.1.2 (<https://github.com/rails/rails/pull/49636>) causes autoloading of plugins to fail. A patch to fix this is attached.

#### #15 - 2023-11-28 13:32 - Marius BĂLTEANU

Thanks!

Can you take a look also on the failing tests from [here](#)? I will do it as well this week.

#### #16 - 2023-11-28 15:44 - Takashi Kato

- File 0001v2-Fix-autoloading-plugin-classes.patch added

Sorry for your time.

It is difficult to fix autoload\_paths after initialize, so I've changed the method.

#### #17 - 2023-11-29 08:10 - Marius BĂLTEANU

- Related to Defect #37732: Fix "DEPRECATION WARNING: Rendering actions with '.' in the name is deprecated" in RepositoriesController added

#### #18 - 2023-11-29 11:32 - Mischa The Evil

Takashi Kato wrote in [#note-16](#):

Sorry for your time.

It is difficult to fix autoload\_paths after initialize, so I've changed the method.

Just my two cents on this patch:

- This somewhat seems to converge with [#24007](#) (albeit not as a user config option directly) and as such has the issue mentioned in [#24007#note-13](#) that 'plugins' directory remains hard-coded in <source:/trunk/Gemfile@22489#L125>.
- The comments included in this patch contain a typo (s/tesr/test).

#### #19 - 2023-12-07 03:39 - Mizuki ISHIKAWA

Takashi Kato wrote in [#note-16](#):

Sorry for your time.

It is difficult to fix autoload\_paths after initialize, so I've changed the method.

I was conducting an investigation without realizing that a patch had already been posted. Akira Matsuda assisted me in this research. The problem is likely to have been caused by the changes to <https://github.com/rails/rails/commit/ebfca905db>.

The following changes will also solve the problem:

```
diff --git a/lib/redmine/plugin_loader.rb b/lib/redmine/plugin_loader.rb
index 2151e949b..e1b58baa7 100644
--- a/lib/redmine/plugin_loader.rb
+++ b/lib/redmine/plugin_loader.rb
@@ -126,7 +126,7 @@ module Redmine
  # Add the plugin directories to rails autoload paths
  engine_cfg = Rails::Engine::Configuration.new(directory.to_s)
  engine_cfg.paths.add 'lib', eager_load: true
  engine_cfg.eager_load_paths.each do |dir|
+   engine_cfg.all_eager_load_paths.each do |dir|
    Rails.autoloaders.main.push_dir dir
    Rails.application.config.watchable_dirs[dir] = [:rb]
  end
```

[https://github.com/redmica/redmica\\_ui\\_extension](https://github.com/redmica/redmica_ui_extension) plugin can reproduce autoloading-related problems.

#### #20 - 2023-12-10 04:13 - Marius BĂLTEANU

Thanks [Takashi Kato](#) and [Mizuki ISHIKAWA](#) for investigating this issue, I've committed the fix with all\_eager\_load\_paths because it seems to call

both methods eager\_load\_paths + paths.eager\_load.

#### #21 - 2023-12-10 04:41 - Marius BĂLTEANU

Committed also the test and the changes required for the test to pass, thanks!

#### #22 - 2023-12-10 04:44 - Marius BĂLTEANU

Mischa The Evil wrote in [#note-18](#):

[...]

Just my two cents on this patch:

- This somewhat seems to converge with [#24007](#) (albeit not as a user config option directly) and as such has the issue mentioned in [#24007#note-13](#) that 'plugins' directory remains hard-coded in [source:/trunk/Gemfile@22489#L125](#).

It looks like we are close to support changing the "plugins" directory path from the configuration file, but we still need more time to invest in order to properly support and document this change.

#### #23 - 2023-12-10 04:54 - Marius BĂLTEANU

- Related to Defect #39760: Some API tests fail with Ruby 2.7 added

#### #24 - 2023-12-10 04:58 - Marius BĂLTEANU

- Related to Defect #39747: Diff of a javascript file in repository module is not displayed with layout added

#### #25 - 2023-12-10 05:07 - Marius BĂLTEANU

It seems that after this update, some concurrency tests randomly fail, for example:

- [https://www.redmine.org/builds/logs/build\\_trunk\\_postgresql\\_ruby-3.2\\_878.html](https://www.redmine.org/builds/logs/build_trunk_postgresql_ruby-3.2_878.html)
- [https://www.redmine.org/builds/logs/build\\_trunk\\_mysql\\_ruby-3.2\\_877.html](https://www.redmine.org/builds/logs/build_trunk_mysql_ruby-3.2_877.html)
- [https://www.redmine.org/builds/logs/build\\_trunk\\_mysql\\_ruby-3.2\\_878.html](https://www.redmine.org/builds/logs/build_trunk_mysql_ruby-3.2_878.html) (pass)

Is someone able to reproduce the problem on the local environment?

#### #26 - 2023-12-10 16:23 - Marius BĂLTEANU

- Related to Defect #39803: Plugin modules no longer working added

#### #27 - 2023-12-11 01:45 - Minoru Maeda

Marius BALTEANU wrote in [#note-25](#):

Is someone able to reproduce the problem on the local environment?

I encountered a test failure in project\_nested\_set\_concurrency\_test.rb on my M2 chip MacBook Air using a Docker environment (with postgres:14.9 and ruby:2.7.8).

I'm not sure of the reason, but it seems to be related to <https://github.com/rack/rack-session#compatibility>. After modifying the Gemfile as follows and running bundle update, the test for project\_nested\_set\_concurrency\_test.rb passed with the seed value that previously led to failure.

```
diff --git a/Gemfile b/Gemfile
index 908c32343..d5870ad95 100644
--- a/Gemfile
+++ b/Gemfile
@@ -3,6 +3,7 @@ source 'https://rubygems.org'
 ruby '>= 2.7.0', '< 3.3.0'
```

```
gem 'rails', '7.1.2'
+gem 'rack-session', '~> 1.0'
gem 'rouge', '~> 4.2.0'
gem 'mini_mime', '~> 1.1.0'
gem "actionpack-xml_parser"
```

#### #28 - 2023-12-12 17:21 - Marius BĂLTEANU

- Related to Defect #39834: Extract tests for plugin autoloading and Restore Plugin directory settings added

#### #29 - 2023-12-13 02:51 - Minoru Maeda

Minoru Maeda wrote in [#note-27](#):

I'm not sure of the reason, but it seems to be related to <https://github.com/rack/rack-session#compatibility>. After modifying the Gemfile as follows and running bundle update, the test for project\_nested\_set\_concurrency\_test.rb passed with the seed value that previously led to failure.

I've discovered the reason for the failure of the test in project\_nested\_set\_concurrency\_test.rb. The issue appears to be that assert\_difference is evaluating Project.count based on cached SQL values, leading to the test failure.

Implementing the following modifications to trunk@ [r22518](#) should resolve the issue, allowing the test in project\_nested\_set\_concurrency\_test.rb to pass. Note that my environment with PostgreSQL 14 and Ruby 2.7.

```
diff --git a/Gemfile b/Gemfile
index d5870ad95..908c32343 100644
--- a/Gemfile
+++ b/Gemfile
@@ -3,7 +3,6 @@ source 'https://rubygems.org'
  ruby '>= 2.7.0', '< 3.3.0'

  gem 'rails', '7.1.2'
-gem 'rack-session', '~> 1.0'
  gem 'rouge', '~> 4.2.0'
  gem 'mini_mime', '~> 1.1.0'
  gem "actionpack-xml_parser"
diff --git a/test/unit/project_nested_set_concurrency_test.rb b/test/unit/project_nested_set_concurrency_test.
rb
index e835d2b50..077731040 100644
--- a/test/unit/project_nested_set_concurrency_test.rb
+++ b/test/unit/project_nested_set_concurrency_test.rb
@@ -38,7 +38,7 @@ class ProjectNestedSetConcurrencyTest < ActiveSupport::TestCase
   p = generate_project!
   p.destroy

-  assert_difference 'Project.count', 60 do
+  assert_difference 'Project.async_count.value', 60 do
     threads = []
     3.times do |i|
       threads << Thread.new(i) do
```

### #30 - 2023-12-14 08:13 - Marius BĂLTEANU

Minoru Maeda wrote in [#note-29](#):

Minoru Maeda wrote in [#note-27](#):

I'm not sure of the reason, but it seems to be related to <https://github.com/rack/rack-session#compatibility>. After modifying the Gemfile as follows and running bundle update, the test for project\_nested\_set\_concurrency\_test.rb passed with the seed value that previously led to failure.

I've discovered the reason for the failure of the test in project\_nested\_set\_concurrency\_test.rb. The issue appears to be that assert\_difference is evaluating Project.count based on cached SQL values, leading to the test failure.

Implementing the following modifications to trunk@ [r22518](#) should resolve the issue, allowing the test in project\_nested\_set\_concurrency\_test.rb to pass. Note that my environment with PostgreSQL 14 and Ruby 2.7.

[...]

Thanks, committed!

### #31 - 2023-12-20 04:33 - Marius BĂLTEANU

- Status changed from Resolved to Closed

The update to Rails 7.1 is finally completed, please report any problem in new issue.

Thanks again to all contributors involved in this update!

### #34 - 2023-12-20 04:49 - Mischa The Evil

- Private changed from Yes to No

### #35 - 2024-01-30 04:33 - Go MAEDA

- Related to Patch #40148: Update activerecord-sqlserver-adapter to 7.1 added

#36 - 2024-02-01 05:26 - Go MAEDA

- Status changed from Closed to Reopened

A test is failing after updating Rails to 7.1.3 in [r22665](#).

```
Error:
ProjectNestedSetConcurrencyTest#test_concurrency:
NoMethodError: undefined method '-' for #<ActiveRecord::Promise status=complete>
  test/unit/project_nested_set_concurrency_test.rb:41:in `test_concurrency'

bin/rails test test/unit/project_nested_set_concurrency_test.rb:34
```

This is caused by the following Rails issue. I am waiting for the release of Rails 7.1.4.  
[Rails 7.1.3: async\\_count returns a completed Promise instead of the value - Issue #50776 - rails/rails](#)

#37 - 2024-02-08 09:28 - Go MAEDA

- Related to Patch #40210: Remove overrides that inserts a non-breaking space (nbsp) to empty option elements added

#38 - 2024-02-26 07:17 - Marius BĂLTEANU

Go MAEDA wrote in [#note-36](#):

A test is failing after updating Rails to 7.1.3 in [r22665](#).

[...]

This is caused by the following Rails issue. I am waiting for the release of Rails 7.1.4.  
[Rails 7.1.3: async\\_count returns a completed Promise instead of the value - Issue #50776 - rails/rails](#)

I've reverted the update to 7.1.3 until Rails 7.1.4 is released in order to have all the tests pass.

Files			
0001-Upgrade-to-Rails-7.patch	5.05 KB	2022-04-10	Takashi Kato
0002-Fix-deprecation-warning.patch	5.73 KB	2022-04-10	Takashi Kato
0004-Use-Selenium-WebDriver-Wait.patch	1.58 KB	2022-04-10	Takashi Kato
0003-Replace-to_s-db-to-to_fs-db.patch	10.9 KB	2022-04-10	Takashi Kato
0001-Upgrade-to-rails-7.1-beta1.patch	25.7 KB	2023-09-24	Takashi Kato
20231117_36320.patch	26.1 KB	2023-11-17	Minoru Maeda
0001-Fix-autoloading-plugin-classes.patch	2.83 KB	2023-11-28	Takashi Kato
0001v2-Fix-autoloading-plugin-classes.patch	4.66 KB	2023-11-28	Takashi Kato