

Redmine - Defect #31116

Database migrations don't run correctly for plugins when specifying the `VERSION` env variable

2019-03-29 00:06 - Anonymous

Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:	Go MAEDA	% Done:	0%
Category:	Plugin API	Estimated time:	0.00 hour
Target version:	5.1.0	Affected version:	4.0.2
Resolution:	Fixed		
Description			
tl;dr: When comparing versions, the <code>current_version</code> is set to the core's latest migration instead of the plugin's latest.			
Steps to reproduce:			
1. Install any plugin with migrations, for example:			
<pre>cd redmine/plugins git clone https://github.com/ixti/redmine_tags.git bundle install rake redmine:plugins:migrate NAME=redmine_tags</pre>			
2. Undo the last migration of that plugin:			
<pre>rake redmine:plugins:migrate NAME=redmine_tags VERSION=20151209153801</pre>			
3. Migrate to the latest version again, but specifying the version this time:			
<pre>rake redmine:plugins:migrate NAME=redmine_tags VERSION=20180122193833</pre>			
Expected behaviour: the 20180122193833 migration is executed. Actual behaviour: the 20180122193833 is not executed.			
This is because redmine core's latest migration is 20180923091603 which is greater than the plugin's 20180122193833.			
The attached fix defines a <code>migrate</code> method for the <code>Redmine::Plugin::MigrationContext</code> class that makes sure to pass along the current plugin's latest migration. Using the default migrate method defined in activerecord executes a <code>current_version</code> that looks for the most current migration in the list of all migrations (core and plugins).			
Note: I have not run any tests with this patch.			

Associated revisions

Revision 21933 - 2022-10-30 07:26 - Go MAEDA

Database migrations don't run correctly for plugins when specifying the `VERSION` env variable (#31116).

Contributed by crypto gopher.

History

#1 - 2019-03-30 11:28 - Anonymous

Test run available here: <https://gitlab.com/sdwolfz/redmine/-/jobs/187237412>

Although... I am not sure how to add a test that checks for this exact error.

#2 - 2019-03-31 07:06 - Go MAEDA

- Category set to Plugin API

- Target version set to Candidate for next major release

#3 - 2019-04-17 17:49 - Martijn Vernooij

- File redmine-4.0.2.plugin-upgrade.patch added

I noticed the same issue (with 4.0.2 though) and 'fixed' it another way.

#4 - 2022-09-19 02:30 - crypto gopher

- File MigrationContext-current_version.patch added

The problem stems from fact, that Redmine::Plugin::MigrationContext does not override current_version() method. So whenever ActiveRecord::MigrationContext.migrate() is executed, it calls ActiveRecord::MigrationContext.current_version() which does not differentiate between Redmine's migrations and plugin's migrations - yielding erroneous result.

The most straightforward change is to override ActiveRecord::MigrationContext.migrate() by using Redmine::Plugin::Migrator.current_version() which already provides required functionality:

```
class MigrationContext < ActiveRecord::MigrationContext
  ...

  def current_version
    Migrator.current_version
  end
end
```

#5 - 2022-09-21 05:29 - Go MAEDA

- Status changed from New to Confirmed

#6 - 2022-09-21 06:52 - Go MAEDA

crypto gopher wrote:

The most straightforward change is to override ActiveRecord::MigrationContext.migrate() by using Redmine::Plugin::Migrator.current_version() which already provides required functionality:

Thank you for posting the patch.

I wrote a test for your patch as follows. Do you think the following code tests the right way?

```
diff --git a/test/unit/lib/redmine/plugin_test.rb b/test/unit/lib/redmine/plugin_test.rb
index a5a1b2aa3..24c06240c 100644
--- a/test/unit/lib/redmine/plugin_test.rb
+++ b/test/unit/lib/redmine/plugin_test.rb
@@ -217,4 +217,17 @@ class Redmine::PluginTest < ActiveSupport::TestCase
    assert Redmine::Plugin.migrate('foo_plugin')
  end
+
+ def test_migration_context_should_override_current_version
+   plugin = @klass.register :foo_plugin do
+     name 'Foo plugin'
+     version '0.0.1'
+   end
+   migration_dir = File.join(@klass.directory, 'db', 'migrate')
+
+   Redmine::Plugin::Migrator.current_plugin = plugin
+   context = Redmine::Plugin::MigrationContext.new(migration_dir, ::ActiveRecord::Base.connection.schema_migration)
+   # current_version should be zero because Foo plugin has no migration
+   assert_equal 0, context.current_version
+ end
end
```

#7 - 2022-10-13 06:13 - Go MAEDA

- Target version changed from Candidate for next major release to 5.1.0

Setting the target version to 5.1.0.

#8 - 2022-10-30 07:26 - Go MAEDA

- Status changed from *Confirmed* to *Closed*

- Assignee set to *Go MAEDA*

- Resolution set to *Fixed*

Committed the patch. Thank you for your contribution.

Files

0001-Fixes-plugin-migration-with-specific-version.patch	1.75 KB	2019-03-28	Anonymous
redmine-4.0.2.plugin-upgrade.patch	1.47 KB	2019-04-17	Martijn Vernooij
MigrationContext-current_version.patch	399 Bytes	2022-09-19	crypto gopher