

Foreman - Bug #2343

app/models/setting.rb#default chokes on nil attributes

03/20/2013 03:32 AM - David Schmitt

Status: Closed	
Priority: Normal	
Assignee: Tomáš Strachota	
Category:	
Target version: 1.2.0	
Difficulty:	Fixed in Releases:
Triaged:	Found in Releases:
Bugzilla link:	Red Hat JIRA:
Pull request:	
Description	
<p>On a freshly installed wheezy with the 1.1.1+debian1 packages from deb.theforeman.org, I get the following trace:</p>	
<pre>rake aborted! can't convert nil into String /usr/lib/ruby/1.9.1/psych.rb:203:in `parse' /usr/lib/ruby/1.9.1/psych.rb:203:in `parse_stream' /usr/lib/ruby/1.9.1/psych.rb:151:in `parse' /usr/lib/ruby/1.9.1/psych.rb:127:in `load' /usr/share/foreman/app/models/setting.rb:77:in `default' /usr/share/foreman/app/models/setting.rb:63:in `value=' /usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/base.rb:1569:in `block in attributes=' /usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/base.rb:1565:in `each' /usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/base.rb:1565:in `attributes=' /usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/base.rb:1416:in `initialize' /usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/validations.rb:32:in `new' /usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/validations.rb:32:in `create!' /usr/share/foreman/lib/foreman/default_settings/loader.rb:21:in `create' /usr/share/foreman/lib/foreman/default_settings/loader.rb:77:in `block (2 levels) in load' /usr/share/foreman/lib/foreman/default_settings/loader.rb:61:in `each' /usr/share/foreman/lib/foreman/default_settings/loader.rb:61:in `block in load' /usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/connection_adapters/abstract/database_statements.rb:139:in `transaction' /usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/transactions.rb:207:in `transaction' /usr/share/foreman/lib/foreman/default_settings/loader.rb:33:in `load' /usr/share/foreman/config/initializers/foreman.rb:4:in `<top (required)>' /usr/share/foreman/vendor/ruby/1.9.1/gems/activesupport-3.0.20/lib/active_support/dependencies.rb:236:in `load' /usr/share/foreman/vendor/ruby/1.9.1/gems/activesupport-3.0.20/lib/active_support/dependencies.rb:236:in `block in load' /usr/share/foreman/vendor/ruby/1.9.1/gems/activesupport-3.0.20/lib/active_support/dependencies.rb:227:in `load_dependency' /usr/share/foreman/vendor/ruby/1.9.1/gems/activesupport-3.0.20/lib/active_support/dependencies.rb:236:in `load' /usr/share/foreman/vendor/ruby/1.9.1/gems/railties-3.0.20/lib/rails/engine.rb:201:in `block (2 levels) in <class:Engine>' /usr/share/foreman/vendor/ruby/1.9.1/gems/railties-3.0.20/lib/rails/engine.rb:200:in `each' /usr/share/foreman/vendor/ruby/1.9.1/gems/railties-3.0.20/lib/rails/engine.rb:200:in `block in <class:Engine>' /usr/share/foreman/vendor/ruby/1.9.1/gems/railties-3.0.20/lib/rails/initializable.rb:25:in `instan</pre>	

```
ce_exec'
/usr/share/foreman/vendor/ruby/1.9.1/gems/railties-3.0.20/lib/rails/initializable.rb:25:in `run'
/usr/share/foreman/vendor/ruby/1.9.1/gems/railties-3.0.20/lib/rails/initializable.rb:50:in `block
in run_initializers'
/usr/share/foreman/vendor/ruby/1.9.1/gems/railties-3.0.20/lib/rails/initializable.rb:49:in `each'
/usr/share/foreman/vendor/ruby/1.9.1/gems/railties-3.0.20/lib/rails/initializable.rb:49:in `run_in
itializers'
/usr/share/foreman/vendor/ruby/1.9.1/gems/railties-3.0.20/lib/rails/application.rb:134:in `initial
ize!'
/usr/share/foreman/vendor/ruby/1.9.1/gems/railties-3.0.20/lib/rails/application.rb:77:in `method_m
issing'
/usr/share/foreman/config/environment.rb:5:in `'
[...]
```

I've added debugging to the "default" method and it dies with "modulepath is nil".

Returning nil instead of raising an exception let the db:migrate run through.

Related issues:

Related to Foreman - Refactor #2660: Setting model, improve tests, string par...	Closed	06/12/2013
Related to Foreman - Bug #2686: foreman-config doesn't change boolean settings	Closed	06/20/2013
Has duplicate Foreman - Bug #3472: "instance of IO needed" failure on new ins...	Duplicate	10/22/2013

Associated revisions

Revision 911d3f5c - 06/12/2013 11:11 AM - Tomáš Strachota

fixes #2343 - override default settings with custom values

- added check for nil before attribute 'default' is loaded from yaml
- removed logic that tried to set 'value' attr to nil when it was equal to 'default'; it didn't behave predictably as 'default' can be assigned after 'value'

Revision ec57fff6 - 06/12/2013 04:11 PM - Tomáš Strachota

fixes #2343 - override default settings with custom values

- added check for nil before attribute 'default' is loaded from yaml
- removed logic that tried to set 'value' attr to nil when it was equal to 'default'; it didn't behave predictably as 'default' can be assigned after 'value' (cherry picked from commit 911d3f5c8f68d7a6daf89296b92af37d546ce95a)

History

#1 - 03/20/2013 01:51 PM - Dominic Cleal

- Status changed from New to Feedback

I'm struggling to work out how this happened, since modulepath has a fixed string as a default.

Are you able to check that default is initialised here? lib/foreman/default_settings/loader.rb:21:in `create'

#2 - 03/25/2013 03:44 AM - David Schmitt

So, I finally got around to digging deeper into this issue. After playing around with the issue, I noticed that it does not hang on the specific setting, but I can trigger it by setting the value in the settings.yaml. e.g. adding ":administrator: foo@example.com" there, leads to this trace (line numbers may be fuzzy due to debug puts):

```
foreman@puppetmaster:~$ RAILS_ENV=production rake db:migrate --trace
** Invoke db:migrate (first_time)
** Invoke environment (first_time)
** Execute environment
{:name=>"administrator", :value=>"foo@example.com", :description=>"The default administrator email address", :
default=>"root@example.org", :category=>"General"}
reading administrator's default: nil
rake aborted!
can't convert nil into String
/usr/lib/ruby/1.9.1/psych.rb:203:in `parse'
/usr/lib/ruby/1.9.1/psych.rb:203:in `parse_stream'
/usr/lib/ruby/1.9.1/psych.rb:151:in `parse'
/usr/lib/ruby/1.9.1/psych.rb:127:in `load'
/usr/share/foreman/app/models/setting.rb:78:in `default'
/usr/share/foreman/app/models/setting.rb:63:in `value='
```

```
/usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/base.rb:1569:in `block in attributes='
/usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/base.rb:1565:in `each'
/usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/base.rb:1565:in `attributes='
/usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/base.rb:1416:in `initialize'
/usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/validations.rb:32:in `new'
/usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/validations.rb:32:in `create!'
/usr/share/foreman/lib/foreman/default_settings/loader.rb:22:in `create'
/usr/share/foreman/lib/foreman/default_settings/loader.rb:45:in `block (2 levels) in load'
/usr/share/foreman/lib/foreman/default_settings/loader.rb:37:in `each'
/usr/share/foreman/lib/foreman/default_settings/loader.rb:37:in `block in load'
/usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/connection_adapters/abstract/database_statements.rb:139:in `transaction'
/usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.0.20/lib/active_record/transactions.rb:207:in `transaction'
/usr/share/foreman/lib/foreman/default_settings/loader.rb:34:in `load'
/usr/share/foreman/config/initializers/foreman.rb:4:in `'
[...]
```

Accordingly, I can make this all go away, by setting `opts[:value] = nil` in the `default_settings/loader/create` method. Of course, this breaks the install "a bit".

Another thing I noticed, but can't categorize: When I recreate the database, the first `rake db:migrate` initializes all the tables, but it requires a second `db:migrate` run to start loading the settings.

Ah, finally found it! `app/models/setting.rb#value=` checks whether `val == default` before setting the value. Since at `create!` time the setting has no default yet (it will be only written to it a few moments later), it fails. Hard.

Now I need to figure out a way to hotfix that in my automated install until this fix is released ;-)

#3 - 04/07/2013 08:47 AM - Dominic Cleal

- Status changed from *Feedback* to *Assigned*
- Assignee set to *Dominic Cleal*
- Target version set to *1.2.0*

Thanks for investigating David, I've reproduced it based on that info. This happens when you set values for settings in `settings.yaml`, which is meant to be supported.

#4 - 05/20/2013 12:54 PM - Dominic Cleal

- Status changed from *Assigned* to *New*
- Assignee deleted (*Dominic Cleal*)

#5 - 05/22/2013 02:48 AM - Tomáš Strachota

- Assignee set to *Tomáš Strachota*

#6 - 06/04/2013 03:32 AM - Dominic Cleal

- Status changed from *New* to *Ready For Testing*

<https://github.com/theforeman/foreman/pull/637>

#7 - 06/12/2013 11:17 AM - Anonymous

- Status changed from *Ready For Testing* to *Closed*
- % Done changed from *0* to *100*

Applied in changeset [911d3f5c8f68d7a6daf89296b92af37d546ce95a](#).

#8 - 10/22/2013 08:32 PM - Dominic Cleal

- Has duplicate Bug #3472: "instance of IO needed" failure on new install added