

Foreman - Bug #8272

Plugins don't cleanup after themselves during uninstallation

11/04/2014 03:35 PM - Christopher Voltz

Status:	New	
Priority:	Normal	
Assignee:		
Category:	Plugin integration	
Target version:		
Difficulty:	hard	Fixed in Releases:
Triaged:	Yes	Found in Releases:
Bugzilla link:		Red Hat JIRA:
Pull request:		

Description

Summary:

If you install a plugin (e.g., *ruby193-rubygem-foreman_abrt* or *ruby193-rubygem-foreman_bootdisk*) which adds settings to the *Settings* model and then uninstall the plugin, attempting to get the list of settings via the API will fail.

To reproduce the problem:

```
sudo yum install -y ruby193-rubygem-foreman_abrt
sudo yum remove -y ruby193-rubygem-foreman_abrt
curl -k -u $ADMIN_USERNAME:$ADMIN_PASSWORD -H "Accept: version=2,application/json" http://
$FOREMAN_SERVER.$DOMAIN/api/settings
```

An exception like this will be generated:

```
{
  "error": {"message": "The single-table inheritance mechanism failed to locate the subclass: 'Setting::Abrt'. This error is raised because the column 'category' is reserved for storing the class in case of inheritance. Please rename this column if you didn't intend it to be used for storing the inheritance class or overwrite Setting.inheritance_column to use another column for that information."}
}
```

To repair the problem:

```
foreman-rake console <<EOF
(1..100).each do |i|
  begin
    Setting.find_by_id(i)
    rescue ActiveRecord::RecordNotFound, ActiveRecord::SubclassNotFound
    Setting.delete(i)
  end
end
exit
EOF
```

To verify the fix:

```
sudo yum install -y jq
if [ `curl -k -u $ADMIN_USERNAME:$ADMIN_PASSWORD -H "Accept: version=2,application/json" http://
$FOREMAN_SERVER.$DOMAIN/api/settings | jq '.total'` != null ]; then
  echo "Fix verified."
else
  echo "Fix failed."
```

Related issues:

Related to Foreman Remote Execution - Bug #17337: after uninstalling remote-e...	New	11/15/2016
Related to Templates - Feature #19260: Add clean up job	Closed	04/12/2017
Related to Foreman - Feature #3588: Uninstall plugins - from GUI or command line	New	11/06/2013
Has duplicate Katello - Bug #25220: Plugin removal can cause Settings to fail...	Duplicate	

History**#1 - 11/05/2014 02:34 AM - Dominic Cleal**

- *Project changed from Plugins to Foreman*

- *Category set to Settings*

We put a fix into the UI to ignore settings for plugins when removed, we should do the same for the API.

#2 - 01/03/2015 08:05 PM - Anonymous

This is also a problem elsewhere:

```
# foreman-rake config
Workaround for RbVmomi may not work as ComputeResource is already loaded: ComputeResource
[deprecated] I18n.enforce_available_locales will default to true in the future. If you really want to skip validation of your locale you can set I18n.enforce_available_locales = false to avoid this message.
rake aborted!
ActiveRecord::SubclassNotFound: The single-table inheritance mechanism failed to locate the subclass: 'Setting::Bootdisk'. This error is raised because the column 'category' is reserved for storing the class in case of inheritance. Please rename this column if you didn't intend it to be used for storing the inheritance class or overwrite Setting.inheritance_column to use another column for that information.
/usr/share/foreman/vendor/ruby/1.9.1/gems/activerecord-3.2.21/lib/active_record/inheritance.rb:143:in `rescue in find_sti_class'
[...]
```

#3 - 11/15/2016 05:17 AM - Anonymous

- *Related to Bug #17337: after uninstalling remote-execution-plugin i can't create locations anymore added*

#4 - 04/24/2017 09:57 PM - Adam Jacob Muller

This occurred to me on my upgrade from 1.13 -> 1.14, the foreman-rake console command worked to correct it.

#5 - 04/25/2017 06:36 AM - Marek Hulán

- *Related to Feature #19260: Add clean up job added*

#6 - 05/04/2017 02:58 AM - Marek Hulán

- *Related to Feature #3588: Uninstall plugins - from GUI or command line added*

#7 - 02/22/2018 04:24 PM - Daniel Lobato Garcia

```
bad_settings = []
(0..300).each do |i|
  begin
    puts Setting.find(i).name
  rescue ActiveRecord::SubclassNotFound
    puts "#{i} wrong subclass"
    bad_settings << i
  rescue ActiveRecord::RecordNotFound
    puts "#{i} not found"
  end
end

puts bad_settings
Setting.where(:id => bad_settings).delete_all
```

Recently a user had success fixing this issue with the script above ^

#8 - 10/17/2018 06:08 PM - Stephen Benjamin

- *Has duplicate Bug #25220: Plugin removal can cause Settings to fail transactions added*

#9 - 08/05/2021 09:12 AM - Amir Fefer

- *Category changed from Settings to Plugin integration*
- *Difficulty set to hard*
- *Triaged changed from No to Yes*

Settings is being refactored from its STI approach, this should be moved to another category for a general plugin cleanup