Foreman - Bug #14155

Tests are order dependent, should be runnable with random order

03/11/2016 07:16 AM - Dominic Cleal

Status:	Closed		
Priority:	Normal		
Assignee:	Dominic Cleal		
Category:	Tests		
Target version:	1.12.0		
Difficulty:		**Fixed in Releases:**	
Triaged:		**Found in Releases:**	
Bugzilla link:		**Red Hat JIRA:**	
Pull request:	https://github.com/theforeman/foreman/pull/3321, https://github.com/theforeman/foreman/pull/3324		

Description

When enabling activesupport/minitest's random test ordering on Rails 4.2, some failures are seen:

Some when executing Api::V2 OS controller tests in this order:

```
10:10:13 Api::V2::OperatingsystemsControllerTest#test_0005_should not create os without version =
0.11 s = .
10:10:13 Api::V2::OperatingsystemsControllerTest#test_0014_should show os if id is description = 0
.14 s = .
10:10:13 Api::V2::OperatingsystemsControllerTest#test_0013_should show os if id is fullname = 0.10
 s = .
10:10:13 Api::V2::OperatingsystemsControllerTest#test_0009_should update associated architectures
by name with UNWRAPPED node = 0.16 s = .
10:10:13 Api::V2::OperatingsystemsControllerTest#test_0004_should create os with os parameters = 0
.01 s = E
10:10:13 Api::V2::OperatingsystemsControllerTest#test_0011_should add association of architectures
 by name with WRAPPED node = 0.17 s = .
10:10:13 Api::V2::OperatingsystemsControllerTest#test_0006_should update os = 0.14 s = .
10:10:13 Api::V2::OperatingsystemsControllerTest#test_0001_should get index = 0.06 s = .
10:10:14 Api::V2::OperatingsystemsControllerTest#test_0010_should add association of architectures
 by ids with WRAPPED node = 0.51 s = .
10:10:14 Api::V2::OperatingsystemsControllerTest#test_0003_should create os = 0.06 s = F
10:10:14 Api::V2::OperatingsystemsControllerTest#test_0008_should update associated architectures
by ids with UNWRAPPED node = 0.16 s = .
10:10:14 Api::V2::OperatingsystemsControllerTest#test_0002_should show os = 0.13 s = .
10:10:14 Api::V2::OperatingsystemsControllerTest#test_0007_should destroy os = 0.08 s = .
10:10:15 Api::V2::OperatingsystemsControllerTest#test_0012_should remove association of architectu
res with WRAPPED node = 0.16 s = .
```

This functional test has a class-level os variable which is being reassigned with OS resources.

And also seed tests in this order:

```
SeedsTest::populating an initial admin user#test_0002_with environment overrides = 6.05 s = .
SeedsTest::populating an initial admin user#test_0001_with defaults = 5.61 s = F
```

This unit test uses the with_env helper, which doesn't unset previously unassigned environment variables on completion.

Related issues:

Related to Foreman - Feature #13244: Upgrade Ruby on Rails to 4.2		**Closed**	**01/15/2016**

Associated revisions

Revision 945dd6d7 - 03/14/2016 11:46 AM - Dominic Cleal

fixes #14155 - fix leaks between tests with random ordering

- A test for the Rabl use_controller_name_as_json_root extension was leaking as the old value was only reset in `setup` methods. When the test was last in the test case, the configuration wasn't reset.
- The with_env helper failed to unset environment variables that weren't set before, it now stores a nil value and resets them.
- OS functional tests used a class-level `os` variable to hold default parameters, but was reassigned in some tests.

History

#1 - 03/11/2016 07:50 AM - Dominic Cleal

- Related to Feature #13244: Upgrade Ruby on Rails to 4.2 added

#2 - 03/11/2016 09:45 AM - Dominic Cleal

- File consoleText1.txt added

Sporadic failures on some API index tests remain:

- Api::V2::OsDefaultTemplatesControllerTest
- Api::V2::OverrideValuesControllerTest
- Api::V2::ParametersControllerTest
- Api::V2::PuppetclassesControllerTest
- Api::V2::ReportsControllerTest
- Api::V2::RolesControllerTest
- Api::V2::SmartClassParametersControllerTest
- Api::V2::SmartProxiesControllerTest
- Api::V2::SmartVariablesControllerTest
- Api::V2::SubnetsControllerTest
- Api::V2::TasksControllerTest
- Api::V2::TemplateCombinationsControllerTest

#3 - 03/14/2016 09:57 AM - Dominic Cleal

Index tests from OsDefaultTemplatesControllerTest onwards fail when the **last** LocationsControllerTest is:

```
Api::V2::LocationsControllerTest#test_0014_root name on index is configured to be controller name = 0.05 s = .
```

This test reconfigures Rabl.configuration.use_controller_name_as_json_root but the value is reset to false in the *setup* method rather than a teardown, so if there's no test following it, then it never gets reset. Further test cases fail as they get index JSON root nodes named after their controllers, e.g.

```
{"total"=>6, "subtotal"=>6, "page"=>1, "per_page"=>20, "search"=>nil, "sort"=>{"by"=>nil, "order"=>nil}, "os_d
efault_templates"=>[{"id"=>51848956,  ...
```

#4 - 03/14/2016 10:14 AM - The Foreman Bot

- Status changed from Assigned to Ready For Testing

- Pull request https://github.com/theforeman/foreman/pull/3321 added

#5 - 03/14/2016 12:02 PM - Dominic Cleal

- Status changed from Ready For Testing to Closed

- % Done changed from 0 to 100

Applied in changeset [945dd6d736075d9a5f3d13117caf114af392067b](#).

#6 - 03/15/2016 04:53 AM - Dominic Cleal

- translation missing: en.field_release set to 136

#7 - 03/15/2016 05:18 AM - The Foreman Bot

- Pull request https://github.com/theforeman/foreman/pull/3324 added

Files

consoleText1.txt		789 KB	03/11/2016	Dominic Cleal