

Foreman - Bug #15154

Libvirt compute resource - unclear error on VM creation failure

05/24/2016 03:17 AM - Shimon Shtein

Status: Closed	
Priority: Normal	
Assignee: Shimon Shtein	
Category: Compute resources - libvirt	
Target version: 1.12.0	
Difficulty:	Fixed in Releases:
Triaged:	Found in Releases:
Bugzilla link: 1332652	Red Hat JIRA:
Pull request: https://github.com/theforeman/foreman/pull/3547	
Description	
Cloned from https://bugzilla.redhat.com/show_bug.cgi?id=1332652	
Description of problem:	
in the below example i provide environment-id="122" which does not exist:	
<pre># hammer -v -u admin -p changeme --output=csv host create --medium-id="9" --root-pass="changeme" --organization-id="1" --location-id="2" --architecture-id="1" --puppet-proxy-id="1" --name="foo4" --environment-id="122" --compute-resource-id="1" --domain-id="1" --operatingsystem-id="3" --partition-table-id="61" [ERROR 2016-05-03 18:14:15 Exception] ERROR: insert or update on table "hosts" violates foreign key constraint "hosts_environment_id_fk" DETAIL: Key (environment_id)=(122) is not present in table "environments".</pre>	
Could not create the host:	
<pre>ERROR: insert or update on table "hosts" violates foreign key constraint "hosts_environment_id_fk" DETAIL: Key (environment_id)=(122) is not present in table "environments".</pre>	
after retrigerring the same command with the correct environment id, I'm no longer able to use the same name for the host (ending up with different error):	
<pre># hammer -v -u admin -p changeme --output=csv host create --medium-id="9" --root-pass="changeme" --organization-id="1" --location-id="2" --architecture-id="1" --puppet-proxy-id="1" --name="foo4" --environment-id="1" --compute-resource-id="1" --domain-id="1" --operatingsystem-id="3" --partition-table-id="61" [ERROR 2016-05-03 18:17:48 Exception] Failed to create a compute my_libvirt_cr_1 (Libvirt) instance foo4.domain.com: no implicit conversion of nil into String</pre>	
Could not create the host:	
<pre>Failed to create a compute my_libvirt_cr_1 (Libvirt) instance foo4.domain.com: no implicit conversion of nil into String</pre>	
Version-Release number of selected component (if applicable):	
6.2.0 BETA	
How reproducible:	
always	
Steps to Reproduce:	
1. create all the prerequisites for creating a host (OS, arch, partition table, ...)	
2. try to create the host with providing invalid environment-id	
[3. optionally, try to create the host again with using the same name]	
Actual results:	
ERROR: insert or update on table "hosts" violates foreign key constraint "hosts_environment_id_fk"	

Expected results:
user friendly message displayed, nothing is being created on the satellite side.

Additional info:

Associated revisions

Revision 169ac7b3 - 05/24/2016 10:32 AM - Shimon Shtein

Fixes #15154 - Added more safety measures to libvirt

History

#1 - 05/24/2016 03:20 AM - Shimon Shtein

- Subject changed from *CLI - host create produces ISE on providing invalid environment-id to Libvirt compute resource - unclear error on VM creation failure*

#2 - 05/24/2016 03:27 AM - Dominic Cleal

- Category changed from *Inventory to Compute resources - libvirt*

- Status changed from *New to Assigned*

Could you put the server logs in this bug report? It's clearly a server side error but no indication of the source.

#3 - 05/24/2016 03:40 AM - Shimon Shtein

I was on it, you are fast :)

After a small investigation, the problem is in `#create_vm` function of `app/models/compute_resources/foreman/model/libvirt.rb`

In my case, the VM could not be created, so it has thrown an exception (`Fog::Errors::Error: Error saving the server: Call to virDomainDefineXML failed: invalid argument: could not find capabilities for arch=x86_64 domaintype=kvm`). This error is not important - this libvirt instance is unstable. The rescue block took place, but `vm.id` was still nil, so `destroy_vm` also threw an exception:

```
... snip ...
| TypeError: no implicit conversion of nil into String
| /opt/theforeman/tfm/root/usr/share/gems/gems/fog-libvirt-0.0.2/lib/fog/libvirt/requests/compute/list_domain
s.rb:9:in `lookup_domain_by_uuid'
| /opt/theforeman/tfm/root/usr/share/gems/gems/fog-libvirt-0.0.2/lib/fog/libvirt/requests/compute/list_domain
s.rb:9:in `list_domains'
| /opt/theforeman/tfm/root/usr/share/gems/gems/fog-libvirt-0.0.2/lib/fog/libvirt/models/compute/servers.rb:15
:in `get'
| /usr/share/foreman/app/models/compute_resource.rb:156:in `find_vm_by_uuid'
| /usr/share/foreman/app/models/compute_resources/foreman/model/libvirt.rb:38:in `find_vm_by_uuid'
| /usr/share/foreman/app/models/compute_resources/foreman/model/libvirt.rb:46:in `destroy_vm'
| /usr/share/foreman/app/models/compute_resources/foreman/model/libvirt.rb:146:in `rescue in create_vm'
| /usr/share/foreman/app/models/compute_resources/foreman/model/libvirt.rb:141:in `create_vm'
... snip ...
```

#4 - 05/24/2016 06:50 AM - The Foreman Bot

- Status changed from *Assigned to Ready For Testing*

- Pull request <https://github.com/theforeman/foreman/pull/3547> added

#5 - 05/24/2016 11:02 AM - Shimon Shtein

- Status changed from *Ready For Testing to Closed*

- % Done changed from *0 to 100*

Applied in changeset [169ac7b398b23bd0214067d5c3ec802f6fe0012a](#).

#6 - 05/25/2016 03:10 AM - Dominic Cleal

- translation missing: *en.field_release* set to 136