

Foreman - Bug #2292

Libvirt ComputeResource #test_connection fails

03/07/2013 09:43 AM - Alexander Pánek

Status:	Resolved	
Priority:	Normal	
Assignee:		
Category:	Compute resources - libvirt	
Target version:		
Difficulty:		Fixed in Releases:
Triaged:		Found in Releases:
Bugzilla link:		Red Hat JIRA:
Pull request:		

Description

Since clicking "Test connection" while editing a Compute resource causes Foreman to display the error "Unable to save; undefined method `text' for nil:NilClass", I have tried to find out where this error actually comes from.

In the controller app/controllers/compute_resources_controller#test_connection are basically two calls: one to initialize ComputeResource (in this case Libvirt) and one to actually test the connection. The former works, the latter causes the above error.

At some point in Foreman::Model::Libvirt#test_connection it somehow tries to access #hypervisor, which returns client.nodes.first, but client is a Libvirt::Connect and does not have a method #nodes.

I tried to replay the whole thing in the console:

```
irb(main):003:0> a = ::Fog::Compute.new :provider => 'Libvirt', :libvirt_uri => 'qemu+tcp://monster.HOSTNAME/system'
=> #<Fog::Compute::Libvirt::Real:70085136428260 @ip_command=nil @client=#<Libvirt::Connect:0x7f7bef454fa8> @uri=#<Fog::Compute::LibvirtUtil::URI:0x7f7bef457a50 @parsed_uri=#<URI::Generic:0x7f7bef454d78 URL:qemu+tcp://monster.HOSTNAME/system>, @uri="qemu+tcp://monster.HOSTNAME/system">>
irb(main):004:0> a.client
=> #<Libvirt::Connect:0x7f7bef454fa8>
irb(main):005:0> a.client.nodes
NoMethodError: undefined method `nodes' for #<Libvirt::Connect:0x7f7bef454fa8>
    from (irb):5
    from :0
```

Since I am not sure what exactly is supposed to happen at that point, I'll just paste the stacktrace that I managed to gather here. Originally there was no stacktrace, so I added a separate call to #client.nodes with a begin/rescue block around it, capturing the exception and printing the backtrace line by line.

```
Started PUT "/compute_resources/test_connection" for 10.8.5.38 at Thu Mar 07 14:46:26 +0100 2013
Processing by ComputeResourcesController#test_connection as
Parameters: {"authenticity_token"=>"i5Zxs9gy8xoCJmdFZCDDWmjNobP5NNc1Anrs9M9LN2c=", "compute_resource"=>{"url"=>"qemu+tcp://monster.HOSTNAME/system", "description"=>"MONSTER MONSTER PARTY", "provider"=>"Libvirt", "name"=>"monster.HOSTNAME"}, "utf8"=>"[]"}
User Load (0.5ms) SELECT "users".* FROM "users" WHERE "users"."id" = 7 LIMIT 1
Setting current user thread-local variable to igor.galic
Setting Load (0.4ms) SELECT "settings".* FROM "settings" WHERE "settings"."name" = 'authorize_login_delegation' ORDER BY LOWER(settings.name) LIMIT 1
CACHE (0.0ms) SELECT "settings".* FROM "settings" WHERE "settings"."name" = 'authorize_login_delegation' ORDER BY LOWER(settings.name) LIMIT 1
SQL (0.3ms) SELECT 1 FROM "compute_resources" WHERE ("compute_resources"."name" = 'monster.HOSTNAME') LIMIT 1
/usr/local/share/foreman/vendor/ruby/1.8/bundler/gems/fog-6d651d777d80/lib/fog/libvirt/models/compute/util/util.rb:12:in `xml_element'
/usr/local/share/foreman/vendor/ruby/1.8/bundler/gems/fog-6d651d777d80/lib/fog/libvirt/requests/compute/get_node_info.rb:27:in `node_attr'
/usr/local/share/foreman/vendor/ruby/1.8/bundler/gems/fog-6d651d777d80/lib/fog/libvirt/requests/compute/get_node_info.rb:17:in `get_node_info'
```

```
/usr/local/share/foreman/vendor/ruby/1.8/bundler/gems/fog-6d651d777d80/lib/fog/libvirt/requests/compute/get_node_info.rb:16:in `each'
/usr/local/share/foreman/vendor/ruby/1.8/bundler/gems/fog-6d651d777d80/lib/fog/libvirt/requests/compute/get_node_info.rb:16:in `get_node_info'
/usr/local/share/foreman/vendor/ruby/1.8/bundler/gems/fog-6d651d777d80/lib/fog/libvirt/models/compute/nodes.rb:13:in `all'
/usr/local/share/foreman/vendor/ruby/1.8/bundler/gems/fog-6d651d777d80/lib/fog/core/collection.rb:141:in `lazy_load'
/usr/local/share/foreman/vendor/ruby/1.8/bundler/gems/fog-6d651d777d80/lib/fog/core/collection.rb:15:in `to_s'
/usr/local/share/foreman/vendor/ruby/1.8/gems/activesupport-3.0.20/lib/active_support/buffered_logger.rb:60:in `add'
/usr/local/share/foreman/vendor/ruby/1.8/gems/activesupport-3.0.20/lib/active_support/buffered_logger.rb:76:in `debug'
/usr/local/share/foreman/lib/foreman/model/libvirt.rb:119:in `client'
/usr/local/share/foreman/lib/foreman/model/libvirt.rb:109:in `hypervisor'
/usr/local/share/foreman/lib/foreman/model/libvirt.rb:45:in `test_connection'
/usr/local/share/foreman/app/controllers/compute_resources_controller.rb:77:in `test_connection'
[...]
/usr/share/phusion-passenger/helper-scripts/passenger-spawn-server:99
Rendered compute_resources/form/_libvirt.html.erb (23.6ms)
Rendered compute_resources/_form.html.erb (28.1ms)
Completed 200 OK in 67ms (Views: 28.8ms | ActiveRecord: 3.1ms)
```

History

#1 - 03/08/2013 04:40 AM - Dominic Cleal

- Status changed from New to Feedback

So on IRC yesterday, I think we tracked this down to the <system> tag missing from libvirt's sysinfo (see `virsh sysinfo`), which Fog expected to always be there. Did you find out anything from libvirt upstream about whether it's optional or a bug? If it's optional, we should fix this in Fog.

#2 - 03/08/2013 05:10 AM - Igor Galić

Dominic, thanks for the reminder. I didn't follow up with upstream yesterday, doing that now.

#3 - 03/08/2013 05:19 AM - Igor Galić

Just as a reminder, this is what `virsh sysinfo` returns:

```
<sysinfo type='smbios'>
  <bios>
    <entry name='vendor'>Intel Corporation</entry>
    <entry name='version'>S5000.86B.10.00.0088.031420081550</entry>
    <entry name='date'>03/14/2008</entry>
    <entry name='release'>10.0</entry>
  </bios>
  <processor>
    <entry name='socket_destination'>CPU1</entry>
    <entry name='type'>Central Processor</entry>
    <entry name='family'>Xeon</entry>
    <entry name='manufacturer'>Intel(R) Corporation</entry>
    <entry name='signature'>Type 0, Family 6, Model 15, Stepping 11</entry>
    <entry name='version'>Intel(R) Xeon(R) CPU E5335 @ 2.00GHz</entry>
    <entry name='external_clock'>1333 MHz</entry>
    <entry name='max_speed'>2000 MHz</entry>
    <entry name='status'>Populated, Enabled</entry>
    <entry name='serial_number'>Not Specified</entry>
    <entry name='part_number'>Not Specified</entry>
  </processor>
  <processor>
    <entry name='socket_destination'>CPU2</entry>
    <entry name='type'>Central Processor</entry>
    <entry name='family'>Xeon</entry>
    <entry name='manufacturer'>Intel(R) Corporation</entry>
    <entry name='signature'>Type 0, Family 6, Model 15, Stepping 11</entry>
    <entry name='version'>Intel(R) Xeon(R) CPU E5335 @ 2.00GHz</entry>
    <entry name='external_clock'>1333 MHz</entry>
    <entry name='max_speed'>2000 MHz</entry>
    <entry name='status'>Populated, Enabled</entry>
    <entry name='serial_number'>Not Specified</entry>
  </processor>
</sysinfo>
```

```
<entry name='part_number'>Not Specified</entry>
</processor>
<memory_device>
  <entry name='size'>2048 MB</entry>
  <entry name='form_factor'>FB-DIMM</entry>
  <entry name='locator'>ONBOARD DIMM_A1</entry>
  <entry name='bank_locator'>Channel A</entry>
  <entry name='type'>DDR2 FB-DIMM</entry>
  <entry name='type_detail'>Synchronous</entry>
  <entry name='speed'>667 MHz</entry>
  <entry name='manufacturer'>80CE</entry>
  <entry name='serial_number'>2920456C</entry>
  <entry name='part_number'>M395T5750EZ4-CE66</entry>
</memory_device>
<memory_device>
  <entry name='size'>2048 MB</entry>
  <entry name='form_factor'>FB-DIMM</entry>
  <entry name='locator'>ONBOARD DIMM_A2</entry>
  <entry name='bank_locator'>Channel A</entry>
  <entry name='type'>DDR2 FB-DIMM</entry>
  <entry name='type_detail'>Synchronous</entry>
  <entry name='speed'>667 MHz</entry>
  <entry name='manufacturer'>80CE</entry>
  <entry name='serial_number'>29284D22</entry>
  <entry name='part_number'>M395T5750EZ4-CE66</entry>
</memory_device>
<memory_device>
  <entry name='size'>2048 MB</entry>
  <entry name='form_factor'>FB-DIMM</entry>
  <entry name='locator'>ONBOARD DIMM_B1</entry>
  <entry name='bank_locator'>Channel B</entry>
  <entry name='type'>DDR2 FB-DIMM</entry>
  <entry name='type_detail'>Synchronous</entry>
  <entry name='speed'>667 MHz</entry>
  <entry name='manufacturer'>80CE</entry>
  <entry name='serial_number'>29284D38</entry>
  <entry name='part_number'>M395T5750EZ4-CE66</entry>
</memory_device>
<memory_device>
  <entry name='size'>2048 MB</entry>
  <entry name='form_factor'>FB-DIMM</entry>
  <entry name='locator'>ONBOARD DIMM_B2</entry>
  <entry name='bank_locator'>Channel B</entry>
  <entry name='type'>DDR2 FB-DIMM</entry>
  <entry name='type_detail'>Synchronous</entry>
  <entry name='speed'>667 MHz</entry>
  <entry name='manufacturer'>80CE</entry>
  <entry name='serial_number'>291E6D0A</entry>
  <entry name='part_number'>M395T5750EZ4-CE66</entry>
</memory_device>
<memory_device>
  <entry name='size'>2048 MB</entry>
  <entry name='form_factor'>FB-DIMM</entry>
  <entry name='locator'>ONBOARD DIMM_C1</entry>
  <entry name='bank_locator'>Channel C</entry>
  <entry name='type'>DDR2 FB-DIMM</entry>
  <entry name='type_detail'>Synchronous</entry>
  <entry name='speed'>667 MHz</entry>
  <entry name='manufacturer'>80CE</entry>
  <entry name='serial_number'>29284E26</entry>
  <entry name='part_number'>M395T5750EZ4-CE66</entry>
</memory_device>
<memory_device>
  <entry name='size'>2048 MB</entry>
  <entry name='form_factor'>FB-DIMM</entry>
  <entry name='locator'>ONBOARD DIMM_C2</entry>
  <entry name='bank_locator'>Channel C</entry>
  <entry name='type'>DDR2 FB-DIMM</entry>
  <entry name='type_detail'>Synchronous</entry>
  <entry name='speed'>667 MHz</entry>
  <entry name='manufacturer'>80CE</entry>
  <entry name='serial_number'>29284DF0</entry>
  <entry name='part_number'>M395T5750EZ4-CE66</entry>
</memory_device>
<memory_device>
```

```
<entry name='size'>2048 MB</entry>
<entry name='form_factor'>FB-DIMM</entry>
<entry name='locator'>ONBOARD DIMM_D1</entry>
<entry name='bank_locator'>Channel D</entry>
<entry name='type'>DDR2 FB-DIMM</entry>
<entry name='type_detail'>Synchronous</entry>
<entry name='speed'>667 MHz</entry>
<entry name='manufacturer'>80CE</entry>
<entry name='serial_number'>29284DF2</entry>
<entry name='part_number'>M395T5750EZ4-CE66</entry>
</memory_device>
<memory_device>
  <entry name='size'>2048 MB</entry>
  <entry name='form_factor'>FB-DIMM</entry>
  <entry name='locator'>ONBOARD DIMM_D2</entry>
  <entry name='bank_locator'>Channel D</entry>
  <entry name='type'>DDR2 FB-DIMM</entry>
  <entry name='type_detail'>Synchronous</entry>
  <entry name='speed'>667 MHz</entry>
  <entry name='manufacturer'>80CE</entry>
  <entry name='serial_number'>29284D97</entry>
  <entry name='part_number'>M395T5750EZ4-CE66</entry>
</memory_device>
</sysinfo>
```

The <system></system> block with uuid, manufacturer, product and serial we usually see is missing here. The question is whether this is expected behaviour.

#4 - 03/12/2013 06:36 AM - Igor Galić

"Linking" Fog bug: <https://github.com/fog/fog/issues/1652>

#5 - 02/27/2014 12:48 PM - Benjamin Papillon

Hello,

Fog bug is closed. Do you still have the issue with Foreman? Can we close this bug?

Regards

#6 - 09/26/2014 07:06 AM - Dominic Cleal

- Category changed from Compute resources to Compute resources - libvirt

#7 - 05/17/2017 09:28 AM - Anonymous

- Status changed from Feedback to Resolved

no reaction, closing.