Foreman - Bug #8769

Unable to build new VM in openstack with API

12/19/2014 09:49 AM - Brian Lee

Status:	Resolved		
Priority:	Normal		
Assignee:			
Category:	API		
Target version:			
Difficulty:		**Fixed in Releases:**	
Triaged:		**Found in Releases:**	1.7.0
Bugzilla link:		**Red Hat JIRA:**	
Pull request:			

Description

I am using json to create a new VM in a openstack Icehouse environment. I get this error as a response from the json request:

```
{
"host": {
"id": null,
"errors": {
"base": [
"Failed to create a compute Openstack-Quicksand-SE (OpenStack) instance se-test-api.vm.<domain>.com: undefined method
`delete_if' for nil:NilClass\n "
]
},
"full_messages": [
"Failed to create a compute Openstack-Quicksand-SE (OpenStack) instance se-test-api.vm.<domain>.com: undefined method
`delete_if' for nil:NilClass\n "
]
}
}
```

Paste bin of the error in the production.log: http://pastebin.com/8F0a8AkR

Related issues:

Related to Foreman - Bug #12320: Hammer CLI : Failed to create a new VM on Op...   **Rejected**

History

#1 - 01/02/2015 05:24 AM - Dominic Cleal

Try passing an empty array in for compute_attributes[nics] so it can iterate over something at least, though you probably need to add some info about network interfaces.

#2 - 01/22/2015 02:11 PM - Brian Lee

I am back to working on this. How do I add a empty array to it? This is my current json:

```
{"host":{"name":"se-test-api",
        "environment_id":"1",
        "hostgroup_id":"6",
        "architecture_id":1,
        "operatingsystem_id":"1",
        "provision_method":"image",
        "compute_resource_id":1,
        "compute_attributes":{"flavor_ref":3,
                              "image_ref":"0937879c-c44a-42b9-b3f5-f03c1928bf39",
                              "tenant_id":"b9241c2ab4884ef7911b13e4cd26aa44",
                              "security_groups":"default",
                              "network":"nova"}
       }
}
```

I have tried adding "nics": , "nics":{}, "nics":[] to the compute_attrubutes section and it does not seem to help.

When I do "nics":{}, I am getting this error: undefined method `map!' for {}:ActiveSupport::HashWithIndifferentAccess

What else can I try?

#3 - 01/23/2015 03:42 AM - Dominic Cleal

I'd try:

```
{"host":{"name":"se-test-api",
         "environment_id":"1",
         "hostgroup_id":"6",
         "architecture_id":1,
         "operatingsystem_id":"1",
         "provision_method":"image",
         "compute_resource_id":1,
         "compute_attributes":{"flavor_ref":3,
                               "image_ref":"0937879c-c44a-42b9-b3f5-f03c1928bf39",
                               "tenant_id":"b9241c2ab4884ef7911b13e4cd26aa44",
                               "security_groups":"default",
                               "network":"nova",
                               "nics":[]}
         }
}
```

Can you check the exact error when you try it?

#4 - 01/23/2015 09:51 AM - Brian Lee

It throws the same error as above. From the log:

Processing by Api::V1::HostsController#create as JSON
Parameters: {"host"=>{"name"=>"se-test-api", "environment_id"=>"1", "hostgroup_id"=>"6", "architecture_id"=>1, "operatingsystem_id"=>"1",
"provision_method"=>"image", "compute_resource_id"=>1, "compute_attributes"=>{"flavor_ref"=>3,
"image_ref"=>"0937879c-c44a-42b9-b3f5-f03c1928bf39", "tenant_id"=>"b9241c2ab4884ef7911b13e4cd26aa44", "security_groups"=>"default",
"network"=>"nova", "nics"=>nil}}, "apiv"=>"v1"}
Authorized user blee(Brian Lee)
Adding Compute instance for se-test-api.<domain>.com
failed to create vm: undefined method `delete_if' for nil:NilClass

#5 - 01/23/2015 10:06 AM - Dominic Cleal

"nics"=>nil looks odd, it's not an empty array as I'd expect if you're doing "nics": [].

#6 - 01/23/2015 10:09 AM - Brian Lee

Looking at the log its erroring in the /usr/share/foreman/app/models/compute_resources/foreman/model/openstack.rb. This is the section:
def create_vm(args = {})
network = args.delete(:network)   # fix internal network format for fog.
args[:nics].delete_if(&:blank?)
args[:nics].map! {|nic| { 'net_id' => nic } }
vm   = super(args)
if network.present?
address = allocate_address(network)
assign_floating_ip(address, vm)
end
vm
rescue => e
message = JSON.parse(e.response.body)['badRequest']['message'] rescue (e.to_s)
logger.warn "failed to create vm: #{message}"
destroy_vm vm.id if vm
raise message
end

Its complaining about the delete_if function. Is there a missing class for it? I don't know Ruby very well so I am just guessing.

#7 - 01/23/2015 10:15 AM - Dominic Cleal

args[:nic] inside compute_attributes is nil (aka null), when it expects an array of NICs. "delete_if" is only valid on arrays, not nil. I thought "nics": []
should pass in an empty array, but the params log you pasted shows it's nil still.

#8 - 01/23/2015 12:05 PM - Brian Lee

So what else can I do? This is a major blocker on my project. Is there some sort of a a hack workaround I can put in until it is resolved?

#9 - 01/23/2015 01:39 PM - Brian Lee

I did a little hacking on that part of the code and I am now able to spin up a openstack VM with the API call:

```
def create_vm(args = {})
    network = args.delete(:network)
    # fix internal network format for fog.
    #args[:nics].delete_if(&:blank?)
    args.delete(:nics)
    #args[:nics].map! {|nic| { 'net_id' => nic } }
    vm      = super(args)
    if network.present?
      address = allocate_address(network)
      assign_floating_ip(address, vm)
    end
    vm
  rescue => e
    message = JSON.parse(e.response.body)['badRequest']['message'] rescue (e.to_s)
    logger.warn "failed to create vm: #{message}"
    destroy_vm vm.id if vm
    raise message
  end
```

I am sure this is not ideal, but it is working for me.

#10 - 02/09/2015 09:09 AM - Brian Lee

I upgraded to foreman 1.7.2 and now when you pass "nics":[""] into the JSON request you do not get the error. I would say it is fixed in 1.7.2 now.

#11 - 02/09/2015 09:16 AM - Dominic Cleal

- Status changed from New to Resolved

That's good news, thanks for confirming Brian.

#12 - 02/13/2015 06:17 AM - The Foreman Bot

- Pull request https://github.com/Katello/katello-installer/pull/176 added

- Pull request deleted ()

#13 - 02/13/2015 06:21 AM - Stephen Benjamin

- Pull request added

- Pull request deleted (https://github.com/Katello/katello-installer/pull/176)

#14 - 10/27/2015 07:21 AM - Dominic Cleal

- Related to Bug #12320: Hammer CLI : Failed to create a new VM on OpenStack - undefined method `delete_if' for nil:NilClass added