

## Foreman - Bug #9871

### Provisioning a new vmware hosts fails with 'Invalid MAC '

03/23/2015 12:32 PM - Konrad Lothar

<b>Status:</b> Resolved	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> Compute resources - VMware	
<b>Target version:</b>	
<b>Difficulty:</b>	<b>Fixed in Releases:</b>
<b>Triaged:</b>	<b>Found in Releases:</b> 1.8.0
<b>Bugzilla link:</b>	<b>Red Hat JIRA:</b>
<b>Pull request:</b>	
<b>Description</b>	
When trying to provision a new host for vmware, I got a	
2015-03-23 17:19:09 [W] Create DHCP Settings for xxx task failed with the following error: Invalid MAC /usr/share/foreman/lib/net/validations.rb:40:in `validate_mac'	
It seems to fail to get a mac address from vsphere. After the error occurs the VM Tab is also unusable saying that the host might be deleted or there was problem communication with vsphere.	
See attached stacktrace.txt	
<b>Related issues:</b>	
Related to Foreman - Bug #9966: Add debug logging when host interfaces cannot...	<b>Closed</b> 03/31/2015
Related to Foreman - Bug #9970: Creating hosts with NICs on vmWare fails with...	<b>Resolved</b> 03/31/2015

#### History

##### #1 - 03/23/2015 12:52 PM - Dominic Cleal

- Category set to Compute resources - VMware

Do you have any more of the log file? It would be useful to see up to the POST that created the host.

##### #2 - 03/24/2015 05:35 AM - Konrad Lothar

Dominic Cleal wrote:

Do you have any more of the log file? It would be useful to see up to the POST that created the host.

Sadly not as we've already rolled back to 1.7.3. :-(

##### #3 - 03/27/2015 11:36 AM - Dominic Cleal

- File 9871\_info.txt added

- File 9871\_debug.txt added

- Status changed from New to Need more information

It appears that no MAC address is being retrieved from the VM created on the VMware compute resource, so no MAC is stored and we later get a validation error.

Attaching two log files from today's IRC session. One at info level, the other at debug in the hope we'd see the NIC to host interface matching code in app/models/concerns/orchestration/compute.rb in action. No debug logs for this were seen.

If anybody can attempt again with the following debug added, it would be appreciated:

[https://github.com/theforeman/foreman/compare/develop...tstrachota:nic\\_debug](https://github.com/theforeman/foreman/compare/develop...tstrachota:nic_debug)

Also enable debug logging as per <http://projects.theforeman.org/projects/foreman/wiki/Troubleshooting#How-do-I-enable-debugging>

**#4 - 03/27/2015 03:07 PM - Alexander Litvinenko**

- File *wyQnQQ88.txt* added

Here is log output with new debugging options.

**#5 - 03/30/2015 08:18 AM - Dominic Cleal**

Thanks Alexander, that contained valuable information.

Foreman 1.8 tries to match the NICs specified during creation to the networks that it sees on the VM created. The network requested is "network"=>"vlan60-Internal", but the one created was network="dvportgroup-236" ("DVSwitch: f4 1e 2d 50 ac 49 e8 45-59 22 ba 45 20 23 46 66"). Do you know if those are related in any way, or maybe we have an issue with it creating VMs with the wrong network?

**#6 - 03/31/2015 03:47 AM - Alexander Litvinenko**

I was run in issue when VM network is wrong (missed on host but present on cluster) - VM creation process is aborted with error and vm is not created.

In this case VM is created, but deleted very shortly (couple of seconds).

**#7 - 03/31/2015 06:06 AM - Dominic Cleal**

- Related to Bug #9966: Add debug logging when host interfaces cannot be matched to VM interfaces added

**#8 - 03/31/2015 06:08 AM - Dominic Cleal**

- Status changed from Need more information to Feedback

- translation missing: en.field\_release deleted (28)

Thanks for confirming Alexander, that sounds plausible. I filed [#9966](#) to get the debug logging added as standard.

I'll set this to feedback now, so if anybody else hits it, please check the host vs cluster configuration described above and if there's still an issue, we'll revisit.

**#9 - 03/31/2015 08:19 AM - Tomáš Strachota**

- Related to Bug #9970: Creating hosts with NICs on vmWare fails with "Unknown Network ID:" added

**#10 - 04/15/2015 10:24 PM - Francois Herbert**

I'm running into this issue. It seems to be caused by Fog returning back the portgroup as the network value instead of the network name.

Data returned from Fog:

```
- !ruby/object:Fog::Compute::Vsphere::Interface
attributes:
:server_id: 501aa99a-1726-dc69-3e6e-185c069592a3
:name: Network adapter 1
:network: dvportgroup-87
:summary: ! 'DVSwitch: be 0c 1a 50 3a 62 17 09-ba a4 0a 88 ad a6 96 a0'
:type: &92509260 !ruby/class 'RbVmomi::VIM::VirtualVmxnet3'
:mac: 77:88:99:00:11:22
:status: untried
:key: 4000
```

Data from foreman:

```
- !ruby/object:Nic::Managed
attributes:
id:
mac:
ip:
type: Nic::Managed
name: example.domain.com
host_id:
subnet_id: 1
domain_id: 1
attrs: {}
created_at:
updated_at:
provider:
username:
password:
virtual: false
link: true
```

```
identifier: "  
tag: "  
attached_to: "  
managed: true  
mode: balance-rr  
attached_devices: "  
bond_options: "  
primary: true  
provision: true  
compute_attributes: !ruby/hash:ActiveSupport::HashWithIndifferentAccess  
type: VirtualVmxnet3  
network: DPT_MAIN_PROD_200
```

And since the code in `app/models/concerns/fog_extensions/vsphere/server.rb` matches on network name (for some reason) the match fails.

It's not making a lot of sense to me matching on network name when more than one nic can be on the same network, so I can suggest the following to fix this:

1. Add a hidden field (name) to `app/views/compute_resources_vms/form/vmware/_network.html.erb` which on submit gets populated with the interface name (from the `host_interfaces_attributes_0_name` field). This results in fog creating the nic with the label = name (code already present in `fog - create_vm.rb`), and when fog is then queried it returns the name of the adapter as whatever this label was set to (defaults to Network Adapter n)

2. Match nic's on name instead of network (what happens when we have 2 nics on the same network??) - by modifying the `select_nic` function in `app/models/concerns/fog_extensions/vsphere/server.rb`

Number 2 I can do fairly easily, but I'm struggling with number 1 :-)

#### #11 - 04/15/2015 10:57 PM - Francois Herbert

I've just tested creating a new vm with a named nic but although the label is passed to vsphere, the returned name is still 'Network adapter 1'. So that idea isn't going to work.

#### #13 - 04/20/2015 06:33 AM - Dominic Cleal

Francois' new issue #10186 will continue to track this issue around distributed port groups.

#### #14 - 05/17/2017 10:28 AM - Anonymous

- Status changed from *Feedback* to *Resolved*

it seems the original issue got solved and other problems are tracked in other issues

#### Files

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stacktrace.txt	14.3 KB	03/23/2015	Konrad Lothar
9871_info.txt	17.1 KB	03/27/2015	Dominic Cleal
9871_debug.txt	76.1 KB	03/27/2015	Dominic Cleal
wyQnQQ88.txt	76.3 KB	03/27/2015	Alexander Litvinenko