

## Foreman - Bug #11550

### Failed to create a compute vmware-hq (VMware) instance es1.initial..dev: undefined method `key?' for #<String:0x0000000ab647e8>

08/25/2015 06:16 AM - Nikita Stupin

<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> 1.9.0
<b>Bugzilla link:</b>		<b>Red Hat JIRA:</b>
<b>Pull request:</b>		
<b>Description</b>		
<p>I try clone new vm from my vmware template but receive this error. In production.log i found this:</p>		
<pre>2015-08-25T13:06:46 [app] [I] Processing by HostsController#create as */* 2015-08-25T13:06:46 [app] [I] Parameters: {"utf8"=&gt;"", "authenticity_token"=&gt;"lYAxdlLeQcJm+8YZcArIGGaOTzbVIQN0BNkXGKgI/Og=", "host"=&gt;{"name"=&gt;"es1", "hostgroup_id"=&gt;"", "compute_resource_id"=&gt;"1", "compute_profile_id"=&gt;"1", "environment_id"=&gt;"1", "puppet_ca_proxy_id"=&gt;"1", "puppet_proxy_id"=&gt;"1", "puppetclass_ids"=&gt;[""]}, "managed"=&gt;"true", "progress_report_id"=&gt;"[FILTERED]", "type"=&gt;"Host::Managed", "interfaces_attributes"=&gt;{"0"=&gt;{"_destroy"=&gt;"0", "type"=&gt;"Nic::Managed", "mac"=&gt;"", "identifier"=&gt;"", "name"=&gt;"es1", "domain_id"=&gt;"2", "subnet_id"=&gt;"1", "ip"=&gt;"10.77.47.3", "managed"=&gt;"1", "primary"=&gt;"1", "provision"=&gt;"1", "virtual"=&gt;"0", "tag"=&gt;"", "attached_to"=&gt;"", "compute_attributes"=&gt;{"type"=&gt;"VirtualE1000", "network"=&gt;"PG_Vlan_147_Developers_Network"}}, "compute_attributes"=&gt;{"cpus"=&gt;"1", "corespersocket"=&gt;"1", "memory_mb"=&gt;"8192", "cluster"=&gt;"Vmware-Cluster-03", "path"=&gt;"/Datacenters/South Port/vm/Developers_new", "guest_id"=&gt;"debian7_64Guest", "scsi_controller_type"=&gt;"ParaVirtualSCSIController", "hardware_version"=&gt;"Default", "start"=&gt;"1", "volumes_attributes"=&gt;{"0"=&gt;{"_delete"=&gt;"", "datastore"=&gt;"HQ-QNAP-02_Developers_Datastore", "name"=&gt;"Hard disk", "size_gb"=&gt;"25", "thin"=&gt;"false", "eager_zero"=&gt;"false"}}, "image_id"=&gt;"Developers_new/linux_dev", "architecture_id"=&gt;"1", "operatingsystem_id"=&gt;"1", "provision_method"=&gt;"image", "build"=&gt;"1", "medium_id"=&gt;"", "ptable_id"=&gt;"", "disk"=&gt;"", "root_pass"=&gt;"[FILTERED]", "is_owned_by"=&gt;"3-Users", "enabled"=&gt;"1", "comment"=&gt;"", "overwrite"=&gt;"false"}, "capabilities"=&gt;"build image", "provider"=&gt;"Vmware"}</pre>		
<pre>2015-08-25T13:06:55 [app] [W] Failed to create a compute vmware-hq (VMware) instance es1.initial.d ev: undefined method `key?' for #&lt;String:0x0000000ab647e8&gt;     NoMethodError: undefined method `key?' for #&lt;String:0x0000000ab647e8&gt;   /usr/share/foreman/vendor/ruby/1.9.1/gems/fog-1.32.0/lib/fog/vsphere/requests/compute/cloudinit _to_customspec.rb:16:in `cloudinit_to_customspec'   /usr/share/foreman/app/models/compute_resources/foreman/model/vmware.rb:376:in `clone_vm'   /usr/share/foreman/app/models/compute_resources/foreman/model/vmware.rb:323:in `create_vm'</pre>		
<p>How i can debug this error?</p>		
<b>Related issues:</b>		
Related to Foreman - Bug #14058: vmware provisioning fails with cryptic error...		<b>New</b> <b>03/04/2016</b>

## History

#1 - 08/25/2015 06:33 AM - Dominic Cleal

- Status changed from New to Need more information

Check which cloud-init template you have associated by viewing the host's Templates tab (on the left), it needs to be YAML format.

## #2 - 08/27/2015 03:42 AM - Nikita Stupin

I create cloud-init template with this content.

```
---
globalIPSettings:
  dnsServerList:
    - <%= @host.subnet.dns_primary %>
  dnsSuffixList:
    - <%= @host.domain %>
identity:
  LinuxPrep:
    domain: <%= @host.domain %>
    hostName: <%= @host.shortname %>
    hwClockUTC: true
    timeZone: "Europe/Moscow"
nicSettingMap:
  - adapter:
    dnsDomain: <%= @host.domain %>
    dnsServerList:
      - <%= @host.subnet.dns_primary %>
    gateway:
      - <%= @host.subnet.gateway %>
    ip: <%= @host.ip %>
    subnetMask: <%= @host.subnet.mask %>
```

Virtual machine suceftully create from template but:

1. I set storage as 25GB in template set storage set as 50GB, in new VM storage size not changed. This correctly or bug?
2. Network adapter in new VM is disabled.
3. VM after create in foreman interface marked as "pending installation".

## #3 - 08/27/2015 04:19 AM - Dominic Cleal

Nikita Stupin wrote:

I create cloud-init template with this content.  
[...]

Is the template showing as linked to the host, either on the Templates tab or via the Resolve Templates button when editing the host?

Virtual machine suceftully create from template but:

1. I set storage as 25GB in template set storage set as 50GB, in new VM storage size not changed. This correctly or bug?

Bug, but fixed for 1.10 via [#9705](#).

2. Network adapter in new VM is disabled.
3. VM after create in foreman interface marked as "pending installation".

Probably because of this failure.

## #4 - 08/27/2015 04:23 AM - Nikita Stupin

Dominic Cleal wrote:

Is the template showing as linked to the host, either on the Templates tab or via the Resolve Templates button when editing the host?

linked to the host

Bug, but fixed for 1.10 via [#9705](#).

Thanks!

2. Network adapter in new VM is disabled.
3. VM after create in foreman interface marked as "pending installation".

Probably because of this failure.

But, disabled network adapter is bug of the foreman or my template?

**#5 - 08/27/2015 04:38 AM - Dominic Cleal**

- Status changed from *Need more information* to *New*

Nikita Stupin wrote:

Dominic Cleal wrote:

2. Network adapter in new VM is disabled.
3. VM after create in foreman interface marked as "pending installation".

Probably because of this failure.

But, disabled network adapter is bug of the foreman or my template?

Not sure, if you're hitting an exception during provisioning then all bets are off about the final state of the VM. I don't know why you're seeing this error, leaving the ticket open.

**#6 - 08/27/2015 04:42 AM - Nikita Stupin**

Please close this ticket, error with "undefined method `key?" is not actually. About disabled network adapter may be i create new ticket?

**#7 - 08/27/2015 04:49 AM - Dominic Cleal**

- Status changed from *New* to *Resolved*

Nikita Stupin wrote:

Please close this ticket, error with "undefined method `key?" is not actually.

Do you know what the cause was in the end? It might be useful to record it for others.

About disabled network adapter may be i create new ticket?

If it's still happening after the exception's fixed, then yep, could be worthwhile. Also it might be worth trying on nightlies in a couple of days time (once built) since the fix I mentioned above for storage also changed how network interfaces are cloned, and was only just merged to nightlies.

**#8 - 08/27/2015 05:07 AM - Nikita Stupin**

Dominic Cleal wrote:

Do you know what the cause was in the end? It might be useful to record it for others.

Yes, cause in invalid YAML in my cloud init template. May be add checking YAML validate, or add example cloud-init template in default configuration?

About disabled network adapter may be i create new ticket?

If it's still happening after the exception's fixed, then yep, could be worthwhile. Also it might be worth trying on nightlies in a couple of days time (once built) since the fix I mentioned above for storage also changed how network interfaces are cloned, and was only just merged to nightlies.

Thanks! I try backport this changes in my 1.9 or try nightly.

**#9 - 08/27/2015 05:14 AM - Dominic Cleal**

Nikita Stupin wrote:

Dominic Cleal wrote:

Do you know what the cause was in the end? It might be useful to record it for others.

Yes, cause in invalid YAML in my cloud init template. May be add checking YAML validate, or add example cloud-init template in default configuration?

Interesting, syntax check might be something to raise to Fog as it appears to all be there. If you have a useful template that might serve as a default, please submit it to <https://github.com/theforeman/community-templates/tree/develop/cloudinit>

**#10 - 09/11/2017 04:08 PM - Ivan Necas**

*- Related to Bug #14058: vmware provisioning fails with cryptic error when not using propper user\_data script added*