

## Foreman - Feature #1945

### Better VMWare support for non-clusters setup

11/15/2012 05:04 AM - Brian Gupta

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>	Chris Roberts	
<b>Category:</b>	Compute resources - VMware	
<b>Target version:</b>		
<b>Difficulty:</b>	medium	<b>Fixed in Releases:</b> 1.19.0
<b>Triaged:</b>	Yes	<b>Found in Releases:</b>
<b>Bugzilla link:</b>	1142878	<b>Red Hat JIRA:</b>
<b>Pull request:</b>	<a href="https://github.com/fog/fog-vsphere/pull/149">https://github.com/fog/fog-vsphere/pull/149</a>	
<b>Description</b>		
Issues:		
- when trying to provision a VM in a vsphere environment that doesn't have clusters, and only hosts, the dropdown for clusters is empty and creating it indicates that "cluster is required for this operation"		
- It allows you to select a local data store on a different host than you are creating the VM on.		
<b>Related issues:</b>		
Related to Foreman - Feature #1946: Addition VMWare options required for VM c...	<b>Resolved</b>	<b>11/15/2012</b>
Related to Foreman - Bug #2666: Unable to create new host	<b>Rejected</b>	<b>06/13/2013</b>
Has duplicate Foreman - Bug #8528: Provisioning on a non-clustered ESXi	<b>Duplicate</b>	<b>11/27/2014</b>
Blocked by Foreman - Refactor #8357: Update fog version to 1.25.x	<b>Closed</b>	<b>11/12/2014</b>

## History

### #1 - 11/30/2012 09:40 AM - Brian Gupta

- Target version set to 1.1

### #2 - 12/03/2012 07:48 AM - Ohad Levy

while a hack, this patch can solve the issue in the meantime:

```
diff --git a/lib/fog/vsphere/requests/compute/list_clusters.rb b/lib/fog/vsphere/requests/compute/list_clusters.rb
index 2092213..55980c7 100644
--- a/lib/fog/vsphere/requests/compute/list_clusters.rb
+++ b/lib/fog/vsphere/requests/compute/list_clusters.rb
@@ -11,7 +11,7 @@ module Fog
   end

   def raw_clusters(datacenter)
-     find_raw_datacenter(datacenter).hostFolder.childEntity.grep(RbVmomi::VIM::ClusterComputeResource)
+     find_raw_datacenter(datacenter).hostFolder.childEntity.grep(RbVmomi::VIM::ComputeResource)
   end
end
```

### #3 - 01/02/2013 07:18 AM - Ohad Levy

- Target version deleted (1.1)

### #4 - 05/13/2013 12:23 PM - Mikael Fridh

Ohad Levy wrote:

while a hack, this patch can solve the issue in the meantime:

[...]

Patch works wonders! Thanks Ohad.

**#5 - 06/12/2013 02:16 PM - Dominic Cleal**

- Target version set to 1.3.0

**#6 - 07/16/2013 10:04 AM - Oliver Weinmann**

Hi,

this no longer seems to work in Foreman 1.2.

I have a Vsphere 5.0 cluster that works fine but the standalone ESXi 5.1 throws an error:

Failed to save: Failed to destroy a compute esxi51 (VMWare) instance centos.a.space.corp: unexpected path class NilClass, mac value is blank!,  
Failed to destroy a compute esxi51 (VMWare) instance centos.a.space.corp: unexpected path class NilClass

**#7 - 09/16/2013 11:49 AM - Lukas Zapletal**

- Target version changed from 1.3.0 to 1.4.0

**#8 - 10/16/2013 03:37 PM - Greg Sutcliffe**

- Target version deleted (1.4.0)

**#9 - 12/10/2013 01:17 PM - Anonymous**

According to a discussion on IRC, this is still present at least in 1.3.1.

**#10 - 02/14/2014 04:08 PM - Ben Fairless**

I can confirm this issue, and also Ohad's workaround, is still present in 1.4.0

**#11 - 02/27/2014 03:45 PM - Benjamin Papillon**

- Related to Bug #2666: Unable to create new host added

**#12 - 07/02/2014 05:58 AM - Marco De Vitis**

I confirm this bug is still present in Foreman 1.5.1, and Ohad's patch works.

**#13 - 07/25/2014 05:54 PM - Derek Tamsen**

I can also confirm this issue still exists in Foreman 1.5.1. However, the patch only works if there are no organizational folders in vsphere for the cluster group. If a cluster is organized into folder(s) under a datacenter, foreman fails to see any clusters. This seems like an underlying issue with either fog or rbvmomi though.

Working Example with Patch:

vcenterserver -> datacenter chosen in dropdown menu -> cluster(s)

Non working example with patch or without patch:

vcenterserver -> datacenter chosen in dropdown menu -> folder1 -> folder2 -> cluster(s)

**#14 - 09/17/2014 10:39 AM - Dominic Cleal**

- Bugzilla link set to 1142878

**#15 - 09/18/2014 04:59 AM - Dominic Cleal**

- Category changed from VM management to Compute resources - VMware

Derek, re comment 14, I've logged that cluster-in-a-folder issue as [#7518](#) leaving this ticket specifically for non-cluster setups.

**#16 - 10/11/2014 12:46 PM - Alexander Korolev**

Just tested with vSphere 5.5. over vCenter on a single host (former cluster) - works fine without any issues.

Structure is as Follows:

vCenter |- Cluster (no HA/DRS active) |- Single host |- test vm

**#17 - 10/24/2014 10:48 AM - Slava Bendersky**

Hello Everyone,

Is there available workarounds? In my case it is blocker I can't deploy any new vms.

My case

Vcenter --- DataCenter01

\_ Host01 | | \_\_\_\_\_ Host02 | | \_\_\_\_\_ DataCenter02

**#18 - 10/24/2014 10:51 AM - Slava Bendersky**

My case

```
Vcenter --- DataCenter01
|
|           |__ Host01
|           |__ Host02
|
|_____ DataCenter02
|           |__ Host01
|           |__ Host02
```

and so on

**#19 - 11/12/2014 07:16 AM - Shlomi Zadok**

- Assignee set to Shlomi Zadok

**#20 - 11/12/2014 07:22 AM - Shlomi Zadok**

- Blocked by Refactor #8357: Update fog version to 1.25.x added

**#21 - 11/14/2014 07:55 PM - Slava Bendersky**

I tried today on 1.7RC1 and patch not working any more. Cluster field is empty.

**#22 - 11/14/2014 08:12 PM - Slava Bendersky**

ok after reboot patch fog 1.24 and it working.

**#23 - 11/14/2014 08:39 PM - Slava Bendersky**

Slava Bendersky wrote:

ok after reboot patch for fog 1.24 working as expected.

**#24 - 11/26/2014 07:39 AM - Dominic Cleal**

- Status changed from New to Closed

- % Done changed from 0 to 100

- translation missing: en.field\_release set to 29

<https://github.com/fog/fog/commit/66e5521>

**#25 - 11/27/2014 11:00 AM - Dominic Cleal**

- Related to Bug #8528: Provisioning on a non-clustered ESXi added

**#26 - 12/05/2014 03:58 AM - Dominic Cleal**

- translation missing: en.field\_release changed from 29 to 28

**#27 - 03/02/2015 06:27 AM - Dominic Cleal**

- Related to deleted (Bug #8528: Provisioning on a non-clustered ESXi)

**#28 - 03/02/2015 06:27 AM - Dominic Cleal**

- Blocked by Bug #8528: Provisioning on a non-clustered ESXi added

**#29 - 03/02/2015 06:29 AM - Dominic Cleal**

- Status changed from Closed to New

- Assignee deleted (Shlomi Zadok)

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

Removing from the 1.8.0 release target, as based on the discussion surrounding [#8528](#), I remain unconvinced that this is supported. The patch in Fog only appears to be part of the solution, a more fundamental problem about MAC address allocations and Foreman's compute orchestration remains.

**#30 - 03/02/2015 07:44 AM - Shlomi Zadok**

So it is a regression? (it is working on 1.7.x)

**#31 - 03/02/2015 07:50 AM - Dominic Cleal**

Shlomi Zadok wrote:

So it is a regression? (it is working on 1.7.x)

1.7 doesn't even have the Fog patch. I don't see how this is a regression, it's never functioned.

**#32 - 05/20/2017 07:28 AM - Anonymous**

- Blocked by deleted (Bug #8528: Provisioning on a non-clustered ESXi)

**#33 - 05/20/2017 07:28 AM - Anonymous**

- Has duplicate Bug #8528: Provisioning on a non-clustered ESXi added

**#34 - 05/20/2017 07:29 AM - Anonymous**

Before there's no fog update which is bringing this feature, there's no possibility on the Foreman side to fix this.

**#35 - 03/19/2018 01:48 PM - Bryan Kearney**

@michael is there a fog upstream issue we should be tracking for this?

**#36 - 05/17/2018 05:32 PM - Chris Roberts**

- Assignee set to Chris Roberts

- Difficulty set to medium

**#37 - 05/18/2018 05:18 PM - Eric Hansen**

I started hitting something like this after upgrading from 1.16rc2 to 1.17. The problem was not evident in 1.16rc2. Now, when I try to deploy on a host, I see that the cluster field is populated as "Please select a cluster". The ESXi host is a standalone in the datacenter. When deploying to this datacenter, the deployment now fails with the following, but I had it working in 1.16rc2,

```
2018-05-18 13:02:54 5312b229 [app] [W] Failed to create a compute dev5vcenter-QA-Databases (VMware) instance eh-katello.qa.catalogic.us:
undefined method `resourcePool' for #<RbVmomi::VIM::Folder:0x00007f9db47ec670> | | NoMethodError: undefined method `resourcePool' for
#<RbVmomi::VIM::Folder:0x00007f9db47ec670> |
/opt/foreman/tfm/root/usr/share/gems/gems/fog-vmware-2.1.0/lib/fog/vsphere/requests/compute/get_resource_pool.rb:16:in
`get_raw_resource_pool' | /opt/foreman/tfm/root/usr/share/gems/gems/fog-vmware-2.1.0/lib/fog/vsphere/requests/compute/create_vm.rb:25:in
`create_vm' | /opt/foreman/tfm/root/usr/share/gems/gems/fog-vmware-2.1.0/lib/fog/vsphere/models/compute/server.rb:303:in `save' |
/usr/share/foreman/app/models/compute_resources/foreman/model/vmware.rb:447:in `create_vm' |
/usr/share/foreman/app/models/concerns/orchestration/compute.rb:77:in `setCompute' |
/usr/share/foreman/app/models/concerns/orchestration.rb:222:in `execute' | /usr/share/foreman/app/models/concerns/orchestration.rb:145:in `block in
process' | /usr/share/foreman/app/models/concerns/orchestration.rb:137:in `each' | /usr/share/foreman/app/models/concerns/orchestration.rb:137:in
`process' | /usr/share/foreman/app/models/concerns/orchestration.rb:44:in `around_save_orchestration' |
/opt/foreman/tfm-ror51/root/usr/share/gems/gems/active_support-5.1.4/lib/active_support/callbacks.rb:117:in `block in run_callbacks'
```

**#38 - 05/18/2018 05:44 PM - Eric Hansen**

FYI, my problem was resolved by adding a cluster to the datacenter and moving the ESX host into it, so that's definitely the problem.

**#39 - 08/23/2018 08:00 PM - Chris Roberts**

- Status changed from New to Resolved

- Triaged changed from No to Yes

- Pull request <https://github.com/fog/fog-vmware/pull/149> added

- Fixed in Releases 1.19.0 added

**#40 - 08/23/2018 08:00 PM - Chris Roberts**

Part of the fog-vmware 2.3.0 gem found in 1.19 marking as resolved.

**#41 - 01/31/2019 05:20 PM - Eric Hansen**

Was this ever tested?

Although I now see stand-alone hosts in the UI, trying to provision to them fails. I am on Foreman 1.20.1. The logs show,

```
2019-01-31T11:27:24 [app] [cdd3a] Processed 1 tasks from queue 'Host::Managed Main', completed 0/5
```

2019-01-31T11:27:24 [E|app|cdd3a] Task 'Set up compute instance joey-tafoya.qa.catalogic.us' **failed**  
2019-01-31T11:27:24 [E|app|cdd3a] Task 'Query instance details for joey-tafoya.qa.catalogic.us' **canceled**  
2019-01-31T11:27:24 [E|app|cdd3a] Task 'Create IPv4 DNS record for joey-tafoya.qa.catalogic.us' **canceled**  
2019-01-31T11:27:24 [E|app|cdd3a] Task 'Create Reverse IPv4 DNS record for joey-tafoya.qa.catalogic.us' **canceled**  
2019-01-31T11:27:24 [E|app|cdd3a] Task 'Power up compute instance joey-tafoya.qa.catalogic.us' **canceled**  
2019-01-31T11:27:24 [I|app|4e73a] Rendering text template  
2019-01-31T11:27:24 [I|app|4e73a] Rendered text template (0.0ms)  
2019-01-31T11:27:24 [I|app|4e73a] Completed 200 OK in 232ms (Views: 0.9ms | ActiveRecord: 43.5ms)  
2019-01-31T11:27:24 [E|app|cdd3a] Failed to save: Failed to create a compute eng1vcenter-Apps-DC (VMware) instance joey-tafoya.qa.catalogic.us:  
CannotAccessVmComponent: A component of the virtual machine is not accessible on the host.

**#42 - 01/31/2019 08:38 PM - Chris Roberts**

- Status changed from Resolved to Need more information

Eric,

Do you have the full traceback from the production.log that I can see? As far as it being tested yes it should have been. I have about 16 tests that I run for regression besides testing the main feature. It was quite a bit ago so I apologize for not having that answer off hand.

**#43 - 01/31/2019 08:41 PM - Chris Roberts**

Eric,

It was tested in our downstream product here:

[https://bugzilla.redhat.com/show\\_bug.cgi?id=1596858#c7](https://bugzilla.redhat.com/show_bug.cgi?id=1596858#c7)

**#44 - 04/15/2019 09:26 PM - Chris Roberts**

- Status changed from Need more information to Closed

**#45 - 09/21/2020 10:19 AM - Luca Lesinigo**

sorry to resurrect this, but I recently tried with a fresh install of Foreman 2.1.2 and I cannot provision VMs on standalone VMware hosts (tried with an ESXi 5.5 and an ESXi 6.7 hosts, with different errors).

Documentation clearly says [Only VMware clusters using vSphere are supported. not standalone ESX or ESXi servers](#) but then links to this issue which is marked as *closed* and *Fixed in Releases: 1.19.0* and it also contains comments like "marking as resolved". As a user reading documentation and this issue, the whole thing sounds a little confusing to me.

As far as I can understand, it still stands that standalone hosts are not supported and getting errors like I did is to be expected, even if this issue and some linked ones (also on RH Satellite) sounds like resolved. Can someone please clarify if this is correct?