## Foreman - Feature #1945
Better VMWare support for non-clusters setup
11/15/2012 05:04 AM - Brian Gupta

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
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<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>Chris Roberts</td>
</tr>
<tr>
<td>Category:</td>
<td>Compute resources - VMware</td>
</tr>
<tr>
<td>Target version:</td>
<td></td>
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<tr>
<td>Difficulty:</td>
<td>medium</td>
</tr>
<tr>
<td>Triaged:</td>
<td>Yes</td>
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<td>Bugzilla link:</td>
<td>1142878</td>
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<td>Pull request:</td>
<td><a href="https://github.com/fog/fog-vsphere/pull/149">https://github.com/fog/fog-vsphere/pull/149</a></td>
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<tr>
<td>Fixed in Releases:</td>
<td>1.19.0</td>
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<tr>
<td>Found in Releases:</td>
<td></td>
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### Description

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.

### Related issues:

- Related to Foreman - Feature #1946: Addition VMWare options required for VM c... Resolved 11/15/2012
- Related to Foreman - Bug #2666: Unable to create new host Rejected 06/13/2013
- Has duplicate Foreman - Bug #8528: Provisioning on a non-clustered ESXi Duplicate 11/27/2014
- Blocked by Foreman - Refactor #8357: Update fog version to 1.25.x Closed 11/12/2014

### 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
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
```
Ohad Levy wrote:

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

[...]

Patch works wonders! Thanks Ohad.

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 classNilClass

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

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

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

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

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

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

and so on
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.

So it is a regression? (it is working on 1.7.x)
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 - Michael Moll
- Blocked by deleted (Bug #8528: Provisioning on a non-clustered ESXi)

#33 - 05/20/2017 07:28 AM - Michael Moll
- Has duplicate Bug #8528: Provisioning on a non-clustered ESXi added

#34 - 05/20/2017 07:29 AM - Michael Moll
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
- Difficulty set to medium
- Assignee set to Chris Roberts

#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 dev5center-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>  |
```

05/10/2020
#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
- Triaged changed from No to Yes
- Status changed from New to Resolved
- Fixed in Releases 1.19.0 added
- Pull request https://github.com/fog/fog-vsphere/pull/149 added

#40 - 08/23/2018 08:00 PM - Chris Roberts
Part of the fog-vsphere 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 [I|app|cdd3a] Processed 1 tasks from queue 'Host::Managed Main', completed 0/5
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)
```

#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
- Status changed from Need more information to Closed