Foreman - Bug #11124

Interface compute attributes not merged from API request over compute profile

07/15/2015 01:11 PM - Matt Chesler

Status:	Closed		
Priority:	Normal		
Assignee:	Timo Goebel		
Category:	API		
Target version:	1.10.1		
Difficulty:		**Fixed in Releases:**	
Triaged:		**Found in Releases:**	1.8.2
Bugzilla link:		**Red Hat JIRA:**	
Pull request:	https://github.com/theforeman/foreman/pull/2843		

Description

Hammer command:

```
hammer host create --name network-test-host --architecture-id 1 --puppet-proxy-id 1 --puppet-ca-pr
oxy-id 1 --compute-resource-id 1 --environment-id 1 --domain-id 1 --subnet-id 2 --interface comput
e_network=10-10-1-0-24-net,compute_type=VirtualVmxnet3,primary=true,provision=true --compute-attri
butes cluster=Cluster1,cpus=4,memory_mb=8192,guest_id=centos64Guest,scsi_controller_type=ParaVirtu
alSCSIController,resource_pool=RP1 --operatingsystem-id 2 --partition-table-id 17 --medium-id 8 --
volume size_gb=50,datastore=DS4 --hostgroup-id 7
```

succeeds, but when checking VMware, the network set is not the network specified. Selecting the same network through the Web UI correctly sets the network in VMware.

production.log output when creating with hammer:

```
Started POST "/api/hosts" for 10.0.0.184 at 2015-07-15 11:39:57 -0400
2015-07-15 11:39:57 [I] Processing by Api::V2::HostsController#create as JSON
2015-07-15 11:39:57 [I]   Parameters: {"host"=>{"name"=>"network-test-host", "environment_id"=>"1"
, "architecture_id"=>"1", "domain_id"=>"1", "puppet_proxy_id"=>"1", "operatingsystem_id"=>"2", "me
dium_id"=>"8", "ptable_id"=>"17", "subnet_id"=>"2", "compute_resource_id"=>"1", "hostgroup_id"=>"7
", "puppet_ca_proxy_id"=>"1", "build"=>true, "enabled"=>true, "managed"=>true, "compute_attributes
"=>{"cluster"=>"Cluster1", "cpus"=>"4", "memory_mb"=>"8192", "guest_id"=>"centos64Guest", "scsi_co
ntroller_type"=>"ParaVirtualSCSIController", "resource_pool"=>"RP1", "volumes_attributes"=>{"0"=>{
"size_gb"=>"50", "datastore"=>"DS4"}}}, "host_parameters_attributes"=>{}, "interfaces_attributes"=
>{"0"=>{"primary"=>"true", "provision"=>"true", "compute_attributes"=>{"network"=>"10-10-1-0-24-ne
t", "type"=>"VirtualVmxnet3"}}}}, "apiv"=>"v2"}
2015-07-15 11:39:57 [I] Skipping user group update for user matt.chesler as usergroup_sync is disa
bled
2015-07-15 11:39:57 [I] Authorized user matt.chesler(Matt Chesler)
2015-07-15 11:40:22 [I] Adding Compute instance for network-test-host.example.com
2015-07-15 11:40:22 [I] Successfully decrypted field for Foreman::Model::Vmware
2015-07-15 11:40:22 [I] Successfully decrypted field for Foreman::Model::Vmware
2015-07-15 11:40:26 [I] Create DHCP reservation for network-test-host.example.com-00:50:56:a1:28:7
8/10.10.1.69
2015-07-15 11:40:43 [I] Add the TFTP configuration for network-test-host.example.com
2015-07-15 11:40:44 [I] Fetching required TFTP boot files for network-test-host.example.com
2015-07-15 11:40:44 [I]   Rendered api/v2/hosts/create.json.rabl (80.4ms)
2015-07-15 11:40:44 [I] Completed 200 OK in 46729ms (Views: 78.8ms | ActiveRecord: 67.2ms)
2015-07-15 11:41:22 [I]
```

production.log output when creating with Web UI:

```
Started POST "/hosts" for 10.0.0.184 at 2015-07-15 11:51:18 -0400
```

```
2015-07-15 11:51:18 [I] Processing by HostsController#create as */*
2015-07-15 11:51:18 [I]   Parameters: {"utf8"=>"✓", "authenticity_token"=>"b6tTkXutY578Zn5NcPNi1th
20FbjqsHE5DwotXR1tBs=", "host"=>{"name"=>"network-test-host", "hostgroup_id"=>"7", "compute_resour
ce_id"=>"1", "compute_profile_id"=>"1", "environment_id"=>"1", "puppet_ca_proxy_id"=>"1", "puppet_
proxy_id"=>"1", "puppetclass_ids"=>[""], "managed"=>"true", "progress_report_id"=>"[FILTERED]", "t
ype"=>"Host::Managed", "interfaces_attributes"=>{"0"=>{"_destroy"=>"0", "type"=>"Nic::Managed", "m
ac"=>"", "identifier"=>"", "name"=>"network-test-host", "domain_id"=>"1", "subnet_id"=>"2", "ip"=>
"10.10.1.75", "managed"=>"1", "primary"=>"1", "provision"=>"1", "virtual"=>"0", "tag"=>"", "attach
ed_to"=>"", "compute_attributes"=>{"type"=>"VirtualVmxnet3", "network"=>"10-10-1-0-24-net"}}, "new
_interfaces"=>{"_destroy"=>"1", "type"=>"Nic::Managed", "mac"=>"", "identifier"=>"", "name"=>"", "
domain_id"=>"", "subnet_id"=>"", "ip"=>"", "managed"=>"1", "primary"=>"0", "provision"=>"0", "virt
ual"=>"0", "tag"=>"", "attached_to"=>"", "compute_attributes"=>{"type"=>"VirtualE1000", "network"=
>"172-16-0-0-24-net"}}}, "compute_attributes"=>{"cpus"=>"4", "corespersocket"=>"1", "memory_mb"=>"
8192", "cluster"=>"Cluster1", "path"=>"/Datacenters/Cluster1/vm", "guest_id"=>"centos64Guest", "sc
si_controller_type"=>"ParaVirtualSCSIController", "hardware_version"=>"Default", "start"=>"1", "vo
lumes_attributes"=>{"new_volumes"=>{"_delete"=>"", "datastore"=>"Backups", "name"=>"Hard disk", "s
ize_gb"=>"10", "thin"=>"true", "eager_zero"=>"false"}, "0"=>{"_delete"=>"", "datastore"=>"DS4", "n
ame"=>"Hard disk", "size_gb"=>"50", "thin"=>"true", "eager_zero"=>"false"}}}, "architecture_id"=>"
1", "operatingsystem_id"=>"2", "provision_method"=>"build", "build"=>"1", "medium_id"=>"8", "ptabl
e_id"=>"17", "disk"=>"", "root_pass"=>"[FILTERED]", "is_owned_by"=>"4-Users", "enabled"=>"1", "mod
el_id"=>"", "comment"=>"", "overwrite"=>"false"}, "capabilities"=>"build image", "provider"=>"Vmwa
re"}
2015-07-15 11:51:19 [I] Adding Compute instance for network-test-host.example.com
2015-07-15 11:51:19 [I] Successfully decrypted field for Foreman::Model::Vmware
2015-07-15 11:51:19 [I] Successfully decrypted field for Foreman::Model::Vmware
2015-07-15 11:51:20 [I]
```

Related issues:

Related to Foreman - Bug #9657: API for creating host can't merge NICs from c...	**Closed**	**03/05/2015**
Related to Foreman - Bug #13980: VMWARE: since 1.10, NIC type and Network dif...	**Closed**	**03/01/2016**
Related to Foreman - Bug #14179: Interface/NIC compute attributes in API host...	**Closed**	**03/14/2016**

Associated revisions

Revision 85e82d04 - 10/23/2015 07:01 AM - Timo Goebel

fixes #11124 - Interface compute attributes not merged from API request over compute profile

Revision 80658ea0 - 01/19/2016 08:04 AM - Timo Goebel

fixes #11124 - Interface compute attributes not merged from API request over compute profile

(cherry picked from commit 85e82d04e0a7c9c86664240ea46138d303553069)

History

#1 - 07/16/2015 05:01 AM - Dominic Cleal

All looks correct to me unfortunately.

If you have the opportunity, you could try adding some logger.debug statements to add_interfaces_to_compute_attrs inside app/models/concerns/orchestration/compute.rb. This copies compute-related data from the interfaces_attributes part of the API request into the compute_attributes hash. It's possible that isn't working correctly and so the list of interface options isn't passed through.

The other bit to possibly check would be parse_networks in app/models/compute_resources/foreman/model/vmware.rb which takes the fully merged compute_attributes hash, finds the networks and creates interfaces.

#2 - 07/16/2015 10:52 AM - Matt Chesler

Adding debug logging to add_interfaces_to_compute_attrs turns up that compute_attributes[attrs_name] is {"0"=>{"type"=>"VirtualVmxnet3", "network"=>"VM Network", "from_profile"=>"1-Small"}}, confirming that the interfaces_attributes part of the API request isn't being added to the Host::Managed instance.

#3 - 07/16/2015 11:01 AM - Dominic Cleal

Ah, is it coming from a compute profile perhaps? Does the host group have one set? It might not merge the attributes you're passing in.

#4 - 07/16/2015 11:08 AM - Matt Chesler

Yes, it seems to be coming from the compute profile associated with the hostgroup. This is definitely unexpected behavior though.

a) via the Web UI, explicit selections override all attributes contained in the compute profile

b) via the API, explicit selections seem to override all but network related attributes contained in the compute profile. The compute_attributes that I specify around CPU, RAM, Disk size, and Datastore are all different than what's in that compute profile and are set properly.

#5 - 07/16/2015 11:19 AM - Dominic Cleal

- Subject changed from Creating vmware host through API doesn't set network to Interface compute attributes not merged from API request over compute profile

#6 - 07/16/2015 11:24 AM - Dominic Cleal

- Related to Bug #9657: API for creating host can't merge NICs from compute profiles added

#7 - 10/20/2015 04:25 AM - Timo Goebel

The Problem is the code in app/services/interface_merge.rb

```
def merge(nic, vm_nic, compute_attrs)
    nic.compute_attributes = vm_nic # this always overwrites the compute_attributes with the ones coming from
the compute profile (vm_nic).
    nic.compute_attributes['from_profile'] = compute_attrs.compute_profile.name
    nic
  end
```

Working on a fix...

#8 - 10/20/2015 04:57 AM - The Foreman Bot

- Status changed from New to Ready For Testing

- Pull request https://github.com/theforeman/foreman/pull/2843 added

- Pull request deleted ()

#9 - 10/23/2015 07:07 AM - Dominic Cleal

- Assignee set to Timo Goebel

- translation missing: en.field_release set to 104

#10 - 10/23/2015 08:04 AM - Anonymous

- Status changed from Ready For Testing to Closed

- % Done changed from 0 to 100

Applied in changeset 85e82d04e0a7c9c86664240ea46138d303553069.

#11 - 03/01/2016 11:19 AM - Dominic Cleal

- Related to Bug #13980: VMWARE: since 1.10, NIC type and Network different from profile configuration added

#12 - 03/14/2016 06:48 AM - Dominic Cleal

- Related to Bug #14179: Interface/NIC compute attributes in API host creation overwritten with compute profile attributes added