Interface compute attributes not merged from API request over compute profile

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

Status: Closed
Priority: Normal
Assigned To: Timo Goebel
Category: API
Target version:
Difficulty:
Found in release: 1.8.2

Start date: 07/15/2015
Due date:
% Done: 100%
Estimated time: 0.00 hour

Bugzilla link: 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-proxy-id 1 --compute-resource-id 1 --environment-id 1 --domain-id 1 --subnet-id 2 --interface compute_network=10-10-1-0-24-net,compute_type=VirtualVmxnet3,primary=true,provision=true --compute-attributes
```

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:

```
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", "medium_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", "cpu":4, "memory_mb":8192, "guest_id":"centos64Guest", "scsi_controller_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-net", "type":"VirtualVmxnet3"}}}}, "apiv":"v2"}
2015-07-15 11:39:57 [I] Skipping user group update for user matt.chesler as usergroup_sync is disabled
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 11:40:43 [I] Add the TFTP configuration 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 */*
```

01/13/2016
Related issues:
Related to Foreman - Bug # 9657: API for creating host can't merge NICs from ...
Closed 03/05/2015

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

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"}], "compute_attributes": [{"type": "VirtualVmxnet3", "network": "10-10-1-0-24-net"}, "new_interfaces": [{"type": "VirtualE1000", "network": "172-16-0-0-24-net"}], "compute_attributes": [{"type": "VirtualE1000", "network": "172-16-0-0-24-net"}]}] 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 #9857: 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`

```ruby
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

#9 - 10/23/2015 07:07 AM - Dominic Cleal
- Assigned To set to Timo Goebel
- Release set to 1.10.1

#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 commit:85e82d04e0a7c9c86664240e4a46138d303553069.