

Foreman - Feature #1361

Allow subnet information to be accessed from provisioning templates & add gateway, dns to subnets

11/28/2011 11:58 PM - Trey Dockendorf

Status: Closed	
Priority: Normal	
Assignee: Trey Dockendorf	
Category: Unattended installations	
Target version: 1.0	
Difficulty:	Fixed in Releases:
Triaged:	Found in Releases:
Bugzilla link:	Red Hat JIRA:
Pull request:	
Description	
I've attached a patch that does two things.	
1. Add 2 new fields to the Subnets form. Gateway and DNS	
2. Allow subnet items (gateway, dns, mask) to be used in provisioning templates.	
This has been tested using Foreman-0.4.	
I'm still very new to Ruby so these code changes may not adhere to coding best practices for Ruby.	
The primary use case this was created for is to allow for a static IP to be assigned to a new host on install while booting it using DHCP.	
An example of how to use	
<pre>network --bootproto static --hostname <%= @host.name %> --ip=<%= @host.ip %> \ --netmask=<%= subnet[:mask] %> --gateway=<%= subnet[:gateway] %> --nameserver=<%= subnet[:dns] %></pre>	
Related issues:	
Related to Foreman - Feature #1354: Add vlan id and default gateway to subnet...	Resolved 11/24/2011
Related to Foreman - Bug #1432: subnet gateway infos only saved when fill gat...	Closed 01/05/2012
Has duplicate Foreman - Feature #1557: Add more information for static ip con...	Duplicate 03/28/2012

Associated revisions

Revision 50751ff4 - 01/05/2012 02:28 PM - Trey Dockendorf

fixes #1361 -- Add gateway and dns fields to Subnets

- Allow subnet values to be accessed in provisioning templates

History

#1 - 12/01/2011 01:19 AM - Ohad Levy

- Assignee changed from Ohad Levy to Trey Dockendorf

- Target version set to 1.0

this patch would only work with one dns server, is that sufficient?

thanks

#2 - 12/01/2011 03:50 PM - Markus Nussdorfer

Ohad Levy wrote:

this patch would only work with one dns server, is that sufficient?

thanks

Up until RHEL 6.1 you can only define 1 primary nameserver
But according to the Installation Guide for 6 Beta there can be now two

```
--nameserver= - Primary nameserver, as an IP address. Multiple nameservers must each be separated by a comma.
```

#3 - 12/06/2011 12:54 AM - Trey Dockendorf

- File *foreman-4.0-subnet-values-in-provisioning-templates.patch* added

Updated the patch to add secondary DNS and fix a bug with the migrate file. Tested migration successfully

Example usage:

```
network --bootproto static --hostname <%= @host.name %> --ip=<%= @host.ip %> \  
--netmask=<%= subnet[:mask] %> --gateway=<%= subnet[:gateway] %> \  
--nameserver=<%= subnet[:dns_primary] %>,<%= subnet[:dns_secondary] %>
```

Attached is an updated patch file. Could someone remove the previous patch file as it won't work when using db:migrate.

#4 - 12/12/2011 04:13 PM - Trey Dockendorf

This looks related to Issue [#1354](#).

#5 - 12/29/2011 02:38 AM - Ohad Levy

- Status changed from New to Assigned

thanks for the patch, I'm willing to merge it, just one question, what is the usage of the subnet help?

you could simply do

@host.subnet.gateway in your templates?

#6 - 01/03/2012 10:41 AM - Ohad Levy

bump?

#7 - 01/03/2012 10:58 AM - Trey Dockendorf

Ohad Levy wrote:

thanks for the patch, I'm willing to merge it, just one question, what is the usage of the subnet help?

you could simply do

@host.subnet.gateway in your templates?

Sorry for the delay. The campus I support had a fiber outage so we've been busy moving servers all over the place.

Accessing subnet values with @host.subnet.gateway is much cleaner, and works. I think the use of the helper method was a lack of understanding on my part of how to use methods in Ruby Rails. You can ignore the changes to app/helpers/unattended_helper.rb. Though make sure to use the patch from my update, not the patches in the original post. It fixes mistakes I made with the DB migration.

#8 - 01/05/2012 11:28 AM - Trey Dockendorf

Correction, I can't use this is the PXELinux templates...

```
default linux  
label linux  
kernel <%= @kernel %>  
append initrd=<%= @initrd %> ks=<%= foreman_url("provision") %> ksdevice=eth0 network kssendmac ip=<%= ip %> ne  
tmask=<%= subnet[:mask] %> gateway=<%= subnet[:gateway] %> dns=<%= subnet[:dns_primary] %>
```

I can however use the following

```
default linux  
label linux  
kernel <%= @kernel %>  
append initrd=<%= @initrd %> ks=<%= foreman_url("provision") %> ksdevice=eth0 network kssendmac ip=<%= ip %> ne  
tmask=<%= @host.subnet.mask %> gateway=<%= @host.subnet.gateway %> dns=<%= @host.subnet.dns_primary %>
```

The error I get when using the first attempt is this (hostnames/ip changed)

```

Processing HostsController#update (for ..... at 2012-01-05 10:19:27) [PUT]
  Parameters: {"commit"=>"Submit", "action"=>"update", "_method"=>"put", "authenticity_token"=>"FV/8/chFOEddPn
sMh1K703jxmASVvSfHXlp1BlGAPiY=", "id"=>"client.tamu.edu", "controller"=>"hosts", "host"=>{"architecture_id"=>"
1", "subnet_id"=>"2", "puppetproxy_id"=>"1", "name"=>"client", "sp_mac"=>"", "sp_name"=>"", "managed"=>"1", "p
uppetmaster_name"=>"puppetca.tamu.edu", "root_pass"=>"[FILTERED]", "hostgroup_id"=>"1", "mac"=>"52:.....", "do
main_id"=>"1", "enabled"=>"1", "medium_id"=>"6", "ptable_id"=>"9", "disk"=>"", "ip"=>".....", "puppetclass_
ids"=>["", "6", "7", "29", "125", "180", "172", "89", "96"], "environment_id"=>"1", "comment"=>"", "sp_subnet_
id"=>"", "sp_ip"=>"", "model_id"=>"5", "operatingsystem_id"=>"7"}
Add the TFTP configuration for client.tamu.edu
Failed to generate PXELinux template: undefined method `subnet' for nil:NilClass
Fetching required TFTP boot files for client.tamu.edu
Rolling back due to a problem:
Delete the TFTP configuration for client.tamu.edu
Failed to save: Failed to generate PXELinux template: undefined method `subnet' for nil:NilClass
Rendering template within layouts/application
Rendering hosts/edit
Completed in 1098ms (View: 969, DB: 189) | 200 OK [https://foreman.tamu.edu/hosts/client.tamu.edu]

```

I will get back in a day or two if I found out how to fix...I don't see how it works in Kickstart but not PXELinux as they are all "config_templates".

#9 - 01/05/2012 02:31 PM - Ohad Levy

tftp templates are kind of special, just drop the "@host." and it should work..

#10 - 01/05/2012 02:46 PM - Trey Dockendorf

- Status changed from Assigned to Closed
- % Done changed from 0 to 100

Applied in changeset [50751ff43fc703c443721de7fdb8ae178b304838](#).

#11 - 07/05/2012 03:31 AM - jaffa wify

The terminals were connected to the terminal hosts through serial interfaces and perhaps circuit switched networks, but not connected to any IP based network, and were not assigned IP addresses. Today's IP hosts may, however, lack ability to serve as terminal hosts. Thanks a lot.
 Regards,
[make my thesis](#)

#12 - 07/22/2012 12:42 AM - jaffa wify

The academic field and the engineering practice of computer programming are both largely concerned with discovering and implementing the most efficient algorithms for a given class of problem. Thanks for sharing.
 Regards,
[architectural conservation](#)

#13 - 12/08/2012 09:58 AM - nitin khare

From now on I will meet anyone like this unless I commend him to this blog! It is fantastic and I had never found so much useful information on one website. Congratulations. "Austin Home Builder"
 ":http://www.joshwillishomes.com

#14 - 12/08/2012 10:00 AM - nitin khare

The site is favourable and precisely what he or she stated. Along with Marc Jacobs Bags the actual improvement involving e-business, buying Marc Jacobs Purses on the internet. "technical writing services"
 ":http://www.technicalwritingservices.biz/

#15 - 12/24/2012 12:50 AM - nitin khare

[mba application resume](#) Excellent weblog, many thanks a lot for your awesome posts!

Files

foreman-4.0-subnet-fields-in-provisioning-templates.patch	5.26 KB	11/28/2011	Trey Dockendorf
foreman-4.0-subnet-values-in-provisioning-templates.patch	5.81 KB	12/06/2011	Trey Dockendorf