

Foreman - Bug #5847

Successfully adds DHCP record, while GUI reports timeout

05/21/2014 07:50 AM - Jon Skarpeteig

Status: New	
Priority: Normal	
Assignee:	
Category: DHCP	
Target version:	
Difficulty:	Fixed in Releases:
Triaged:	Found in Releases: 1.5.0
Bugzilla link:	Red Hat JIRA:
Pull request:	
Description	
From the GUI:	
Unable to save Create DHCP Settings for test.fqdn.com task failed with the following error: ERF12-6899 [ProxyAPI::ProxyException]: Unable to set DHCP entry ([RestClient::RequestTimeout]: Request Timeout) for proxy http://dhcp.fqdn.com:8443/dhcp	
From foreman proxy.log (at the same time the GUI request starts):	
DEBUG -- : Added 1.1.1.1 / 00:50:56:00:00:00 to 1.1.1.1/255.255.255.0	
I can also see the entry in dhcpd.leases file correctly.	
Using ISC-DHCP and foreman-proxy on a remote node.	
Related issues:	
Related to Smart Proxy - Bug #1090: When editing DHCP records, ISC backend ti...	Resolved 08/05/2011

History

#1 - 05/21/2014 07:57 AM - Dominic Cleal

- Category set to DHCP
- Priority changed from High to Normal

I think the "Added" debug logs are actually retrieving the existing leases or reservations from the subnet and adding them to an internal record, before actually adding a reservation. That said, it might well be that the request completes while Foreman itself has timed out.

You might find the fix from [#5712](#) helps if you have many subnets, as it allows you to restrict which subnets it'll load from your DHCP server so will run faster.

#2 - 05/21/2014 08:06 AM - Jon Skarpeteig

Seems you're right about the subnets. For some reason it seems it's loading every single subnet. This happens after the "Added" debug log message though

#3 - 05/21/2014 08:18 AM - Jon Skarpeteig

I can confirm that the patch indeed solves the problem. However, it's still very slow (even with just the one subnet I added).

I'm a bit confused as to why it needs to re-read the full subnet after an add operation?

```
D, [2014-05-21T10:07:34.823707 #3788] DEBUG -- : true
D, [2014-05-21T10:07:34.823783 #3788] DEBUG -- : omshell: executed - set hardware-address = 00:50:56:00:00:00
D, [2014-05-21T10:07:34.823841 #3788] DEBUG -- : true
D, [2014-05-21T10:07:34.823935 #3788] DEBUG -- : omshell: executed - set hardware-type = 1
D, [2014-05-21T10:07:34.823987 #3788] DEBUG -- : true
D, [2014-05-21T10:07:34.824200 #3788] DEBUG -- : omshell: executed - set statements = "filename = \"pxelinux.0\"; next-server = 0a:2f:00:00; option host-name = \"host.fqdn\";"
D, [2014-05-21T10:07:34.824258 #3788] DEBUG -- : true
```

D, [2014-05-21T10:07:34.824334 #3788] DEBUG -- : omshell: executed - create
D, [2014-05-21T10:07:34.824386 #3788] DEBUG -- : true
I, [2014-05-21T10:07:34.847729 #3788] INFO -- : Added DHCP reservation for host.fqdn (1.1.1.1 / 00:50:56:00:00:00)
D, [2014-05-21T10:12:29.163547 #4709] DEBUG -- : Reading config file /etc/dhcpd.conf

#4 - 05/21/2014 08:24 AM - Ohad Levy

Jon Skarpeteig wrote:

I'm a bit confused as to why it needs to re-read the full subnet after an add operation?

The proxy is a stateless API service, meaning, it does not remember anything between requests, this is done because:

1. no need to keep another db in the proxy
2. easier to write

We could consider caching things (like list of subnets etc), but normally I think they whole list should not be loaded automatically, only for requests that need it, therefore, if it reloads the data after creating the record, there might be a hidden extra request coming from foreman which is not required?

#5 - 07/31/2014 10:50 AM - Jon Skarpeteig

Right now the foreman-proxy use several minutes to list a single C-class subnet. It's burning 100% CPU on a single thread until it's complete. As the GUI sits and waits for this process on both edit and save operation - it's a horrible user experience.

#6 - 08/06/2014 04:38 AM - Dominic Cleal

- Related to Bug #1090: When editing DHCP records, ISC backend times out if the number of subnets is large. added

#7 - 08/28/2014 08:24 PM - Ruslan Kiianchuk

I'm getting this, when I try to upvote:

Internal error

An error occurred on the page you were trying to access.
If you continue to experience problems please contact your Redmine administrator for assistance.

If you are the Redmine administrator, check your log files for details about the error.

#8 - 09/19/2014 09:33 AM - Sarguru Nathan

Hi,

I think the suggest IP that comes in the network tab of adding host page is what causes the load of entire subnet data (loadsubnetdata function) which is very expensive. For simple cases of addition I'm not sure if it is needed since omshell should return an error on conflict etc. Please correct me if I'm wrong.

Is there a way to disable the suggestion part ? Or is there any other cleaner work around for this?

Ohad Levy wrote:

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#9 - 09/19/2014 09:36 AM - Dominic Cleal

IP suggestion can be disabled in 1.6 ([#6529](#)), edit the Subnet in the UI and untick the IPAM checkbox.

#10 - 09/19/2014 11:23 AM - Sarguru Nathan

Dominic Cleal wrote:

IP suggestion can be disabled in 1.6 ([#6529](#)), edit the Subnet in the UI and untick the IPAM checkbox.

Thanks Dominic . I tried it and didnt find much improvement. The performance penalty seems to be from loadSubnetData function which gets called 4 times while adding a new host (which Im not sure why) . Probably caching could be a solution to cut down its time by 4 .