

Smart Proxy - Bug #23784

Unable to change host's MAC address

06/01/2018 04:27 PM - Trey Dockendorf

<b>Status:</b>	Duplicate	
<b>Priority:</b>	Normal	
<b>Assignee:</b>		
<b>Category:</b>	DHCP	
<b>Target version:</b>		
<b>Difficulty:</b>		<b>Fixed in Releases:</b>
<b>Triaged:</b>		<b>Found in Releases:</b> 1.17.0
<b>Bugzilla link:</b>		<b>Red Hat JIRA:</b>
<b>Pull request:</b>		
<b>Description</b>		
<p>I ran into this issue with 1.16.1 and was able to resolve by downgrading the smart proxy back to 1.15.6. The "Found in release" should be 1.17.1 which isn't an option it seems. Once again downgrading from 1.17.1 to 1.15.6 of the proxy resolved my issue.</p> <p>I make changes to hosts via API and received this message:</p> <p>ERROR: Failed to update <a href="https://foreman-test.ten.DOMAIN/api/hosts/o0074.ten.DOMAIN">https://foreman-test.ten.DOMAIN/api/hosts/o0074.ten.DOMAIN</a>, message=[u'Remove DHCP Settings for o0074.ten.DOMAIN task failed with the following error: ERF12-0635 [ProxyAPI::ProxyException]: Unable to delete DHCP entry for 7c:d3:0a:b0:57:46 ([RestClient::NotFound]: 404 Not Found) for proxy <a href="https://bootsrv1-test.ten.DOMAIN:8443/dhcp">https://bootsrv1-test.ten.DOMAIN:8443/dhcp</a>'], details=</p> <p>I'm attaching logs from Foreman and proxy from this incident.</p>		

History

#1 - 06/04/2018 06:26 AM - Lukas Zapletal

- Project changed from Foreman to Smart Proxy
- Category set to DHCP
- Status changed from New to Need more information

Hey,

smart-proxy does not appear to be picking up reservation/leases? Is your /var/lib/dhcpd directory a local volume? Proxy no longer supports file systems which do not allow inotify (e.g. NFS).

#2 - 06/04/2018 01:19 PM - Trey Dockendorf

The /var path is on ext4:

```
/dev/mapper/vg0-lv_var /var ext4 defaults 1 2
```

When I restart foreman-proxy I see with DEBUG several "Add a reservation" lines but they all appear to be for static leases defined in /etc/dhcpd. Will the proxy also print the leases found in /var/lib/dhcpd/dhcpd.leases?

Permissions seem open enough to allow foreman-proxy user access:

```
# ls -la /var/lib/dhcpd/
total 16
drwxr-xr-x  2 dhcpd dhcpd 4096 Jun  1 12:26 .
drwxr-xr-x. 42 root  root  4096 Jun  4 03:23 ..
-rw-r--r--  1 dhcpd dhcpd    0 Aug  9 2016 dhcpd6.leases
-rw-r--r--  1 dhcpd dhcpd 3288 Jun  1 13:24 dhcpd.leases
-rw-r--r--  1 dhcpd dhcpd 4035 Jun  1 12:26 dhcpd.leases~
```

#3 - 06/04/2018 01:47 PM - Trey Dockendorf

- File production-rebuild.log added
- File proxy-rebuild.log added

The DHCP browser plugin shows nothing for subnets that have hosts in /var/lib/dhcpd/dhcpd.leases. Also rebuilding a host's config that should redeploy DHCP is failing in a similar way to changing a host's MAC address.

The test environment I have mimics my production environment in that it has a subset of same hosts but only a handful are actually in /var/lib/dhcpd/dhcpd.leases. This situation would more closely match an environment restored from backup where the proxy DHCP configuration is empty and has to be repopulated. I've run into this same error in production but the logs would be harder to look at due to high volume of activity.

I'm attaching logs of an attempt to rebuild configs for host o0001 with MAC 7c:d3:0a:b1:67:2c. The logs are kind of lengthy as BMCs got queried after failed attempt to rebuild from Host index page. The host that was supposed to be rebuilt was NOT already in /var/lib/dhcpd/dhcpd.leases but was already in Foreman as managed.

#### #4 - 06/04/2018 04:18 PM - Anonymous

Requests to dhcp/ endpoint return 404s, which is most likely due to an issue with dhcp module. Please check startup log for errors, it should clarify what the issue is.

#### #5 - 06/04/2018 04:38 PM - Trey Dockendorf

- File proxy-start.log added

I see the problem. Attached log that shows startup failing to parse a line in dhcpd.leases. The "server-duid" was missing from the file for some reason. I restarted dhcpd which fixed dhcpd.leases and a restart of foreman-proxy after resolved the errors. DHCP updates through our normal means now work.

#### #6 - 06/04/2018 05:58 PM - Anonymous

- Tracker changed from Bug to Support

- Priority changed from High to Normal

#### #7 - 06/05/2018 08:59 AM - Lukas Zapletal

Permissions are sometimes an issue as well. Can this be closed?

#### #8 - 06/05/2018 12:17 PM - Trey Dockendorf

I think this can be closed. I'll re-open or link to new issue if problem manifests itself again and dhcpd.leases missing lines isn't the issue.

Thanks,  
- Trey

#### #9 - 06/05/2018 12:38 PM - Trey Dockendorf

Actually I don't know if warrants different case or what but dhcpd.leases just lost server-duid line again and the proxy broke. I don't know if this is a bug with ISC DHCP or something that can be resolved in the proxy. Seems like the server server-duid line isn't necessary for proxy to function but it's absence breaks the proxy. This makes the proxy unnecessarily fragile.

#### #10 - 06/05/2018 12:45 PM - Trey Dockendorf

- File dhcpd.leases added

I may have a reproducer.

- 1) Fix DHCP and Proxy
- 2) Trigger proxy to add new DHCP record that puts server-duid as not being the last line in file
- 3) Restart proxy and get failure to parse keyword\_server\_duid

Error:

```
D, [2018-06-05T08:40:53.275458 ] DEBUG -- : ["/usr/share/gems/gems/rsec-0.4.2/lib/rsec/parser.rb:19:in `parse!'
", "/usr/share/foreman-proxy/modules/dhcp_common/isc/configuration_parser.rb:404:in `subnets_hosts_and_leases
'", "/usr/share/foreman-proxy/modules/dhcp_common/isc/subnet_service_initialization.rb:17:in `load_leases_file
'", "/usr/share/foreman-proxy/modules/dhcp_isc/isc_state_changes_observer.rb:156:in `load_leases_file'", "/usr
/share/foreman-proxy/modules/dhcp_isc/isc_state_changes_observer.rb:130:in `block in do_start'", "/usr/share/f
oreman-proxy/modules/dhcp_common/subnet_service.rb:154:in `block in group_changes'", "/usr/share/ruby/monitor.
rb:211:in `mon_synchronize'", "/usr/share/foreman-proxy/modules/dhcp_common/subnet_service.rb:154:in `group_ch
anges'", "/usr/share/foreman-proxy/modules/dhcp_isc/isc_state_changes_observer.rb:128:in `do_start'", "/usr/sh
are/foreman-proxy/modules/dhcp_isc/isc_state_changes_observer.rb:80:in `start'", "/usr/share/foreman-proxy/mod
ules/dhcp_isc/inotify_leases_file_observer.rb:42:in `start'", "/usr/share/foreman-proxy/lib/proxy/plugin_initi
alizer.rb:238:in `block in start_services'", "/usr/share/foreman-proxy/lib/proxy/plugin_initializer.rb:236:in
`each'", "/usr/share/foreman-proxy/lib/proxy/plugin_initializer.rb:236:in `start_services'", "/usr/share/forem
an-proxy/lib/proxy/plugin_initializer.rb:221:in `configure_plugin'", "/usr/share/foreman-proxy/lib/proxy/plugi
n_initializer.rb:92:in `block in configure'", "/usr/share/foreman-proxy/lib/proxy/plugin_initializer.rb:92:in
`each'", "/usr/share/foreman-proxy/lib/proxy/plugin_initializer.rb:92:in `configure'", "/usr/share/foreman-pro
xy/lib/proxy/plugin_initializer.rb:170:in `block in initialize_plugins'", "/usr/share/foreman-proxy/lib/proxy/
```

```
plugin_initializer.rb:170:in `each'", "/usr/share/foreman-proxy/lib/proxy/plugin_initializer.rb:170:in `initia
lize_plugins'", "/usr/share/foreman-proxy/lib/launcher.rb:166:in `launch'", "/usr/share/foreman-proxy/bin/smar
t-proxy:6:in `
```

I've attached dhcpd.leases that causes this problem. Note Line 146 is the last line in file but server-duid is line 131 because I triggered Foreman to add DHCP records for o0597 and c6320-0597. Seems the proxy expects server-duid to be last line or near end of file and that's not always the case.

**#11 - 06/11/2018 09:01 PM - Trey Dockendorf**

This should probably be moved back to a bug and not support?

**#12 - 06/12/2018 11:45 AM - Lukas Zapletal**

Can you try [#23433](#) patch if that helps? I believe this was fixed.

**#13 - 06/12/2018 12:23 PM - Trey Dockendorf**

The patch for [#23433](#) worked to solve the problem. Any chance of backport in 1.17 branch?

**#14 - 06/13/2018 06:25 AM - Lukas Zapletal**

- *Tracker changed from Support to Bug*
- *Status changed from Need more information to Duplicate*

Trey, backport request was sent into 1.17.2 on the other issue. Here, we have a RedMine technical problem, we can't change Status for some reason. Asked our admin to take a look. This will be closed as dupe: [#23433](#)

**#15 - 06/13/2018 06:37 AM - Lukas Zapletal**

Solved it, subscribe to the other issue to see the CP progress.

Files			
production.log	47.1 KB	06/01/2018	Trey Dockendorf
proxy.log	6.05 KB	06/01/2018	Trey Dockendorf
proxy-rebuild.log	83.2 KB	06/04/2018	Trey Dockendorf
production-rebuild.log	139 KB	06/04/2018	Trey Dockendorf
proxy-start.log	28.1 KB	06/04/2018	Trey Dockendorf
dhcpd.leases	4.66 KB	06/05/2018	Trey Dockendorf