Orchestration fails with 409 when there is a MAC DHCP conflict

in latest develop, upon having a proxy conflict (e.g. DHCP) the overwrite option is no longer visible. instead, I'm just getting the proxy error message:

Unable to save
Create DHCP Settings for h04.example.com task failed with the following error: ERF12-6899 [ProxyAPI::ProxyException]: Unable to set DHCP entry ([RestClient::Conflict]: 409 Conflict) for proxy http://h01.example.com:8443/dhcp

in the log file:

Create DHCP Settings for h04.example.com task failed with the following error: ERF12-6899 [ProxyAPI::ProxyException]: Unable to set DHCP entry ([RestClient::Conflict]: 409 Conflict) for proxy http://h01.example.com:8443/dhcp
  | ProxyAPI::ProxyException: ERF12-6899 [ProxyAPI::ProxyException]: Unable to set DHCP entry ([RestClient::Conflict]: 409 Conflict) for proxy http://h01.example.com:8443/dhcp
  | /home/foreman/git/foreman/lib/proxy_api/dhcp.rb:66:in `rescue in set'
  | /home/foreman/git/foreman/lib/proxy_api/dhcp.rb:62:in `set'
  | /home/foreman/git/foreman/lib/net/dhcp/record.rb:29:in `create'
  | /home/foreman/git/foreman/app/models/concerns/orchestration/dhcp.rb:51:in `set_dhcp'
  | /home/foreman/git/foreman/app/models/concerns/orchestration.rb:162:in `execute'
  | /home/foreman/git/foreman/app/models/concerns/orchestration.rb:107:in `block in process'
  | /home/foreman/git/foreman/app/models/concerns/orchestration.rb:99:in `each'
  | /home/foreman/git/foreman/app/models/concerns/orchestration.rb:99:in `process'
  | /home/foreman/git/foreman/app/models/concerns/orchestration.rb:35:in `on_save'

Related issues:
Related to Foreman - Bug #8727: Discovered hosts with same MAC address are re... Closed 12/16/2014
Related to Foreman - Bug #12425: Fact import triggers ip conflicts checks, wh... Closed

Associated revisions
Revision 4c9529c7 - 03/07/2016 06:49 AM - Lukas Zapletal
Fixes #13725 - DHCP MAC conflicts are reported

Revision a9c352dc - 04/18/2016 01:45 PM - Lukas Zapletal
Fixes #13725 - DHCP MAC conflicts are reported
(cherry picked from commit 4c9529c7bc3c081fb3d0bfdbee09b2e7d6ebbc0a)

History
#1 - 02/16/2016 02:58 AM - Ohad Levy
- Related to Bug #8727: Discovered hosts with same MAC address are reported as DHCP conflicts added

#2 - 02/16/2016 02:59 AM - Ohad Levy
I think the original fix for #8727 might be related, as it simply ignores conflict checking by foreman regardless if its discovered or not.

#4 - 02/16/2016 11:39 AM - Lukas Zapletal
Ohad, what is your conflicting record? Can you dump me data from Smart Proxy via the API and tell me, what parameters have you entered in the New Host form.

#5 - 02/17/2016 08:29 AM - Lukas Zapletal
- Subject changed from host conflict resolution does not work anymore to Orchestration fails with 409 when there is a MAC DHCP conflict

So I investigated this issue carefully and it looks like after #8538 was merged, multiple leases are no longer possible. Proxy now loads and retains only the last lease, therefore we can put the MAC validation back. I am currently testing this if that's the case.

#6 - 02/18/2016 04:05 AM - Lukas Zapletal
Confirmed, multiple leases are no longer a problem, we always return the last one.

[lzap@lzapx foreman]$ curl -sk http://localhost:8448/dhcp/192.168.122.0 | json_reformat
[
  "reservations": [
    {
      "hostname": "test01.local.lan",
      "ip": "192.168.122.14",
      "mac": "52:54:00:01:4a:01"
    }
  ],
  "leases": [
    {
      "ip": "192.168.122.67",
      "mac": "52:54:00:13:05:13",
      "starts": "2016-02-18 09:04:28 UTC",
      "ends": "2016-02-20 17:16:17 UTC",
      "state": "active"
    }
  ]
]
"ip": "192.168.122.68",
"mac": "52:54:00:13:05:13",
"starts": "2016-02-18 09:04:28 UTC",
"ends": "2016-02-18 09:59:19 UTC",
"state": "active"
]
]
lzap@lzapx foreman]$ curl -sk http://localhost:8448/dhcp/192.168.122.0/52:54:00:13:05:13 | json_reformat

{
  "subnet": "192.168.122.0/255.255.255.0",
  "ip": "192.168.122.68",
  "mac": "52:54:00:13:05:13",
  "starts": "2016-02-18 09:04:36 UTC",
  "ends": "2016-02-18 09:59:19 UTC",
  "state": "active"
}
lzap@lzapx foreman]$ curl -sk http://localhost:8448/dhcp/192.168.122.0/unused_ip?mac=52:54:00:13:05:13 | json_reformat

{
  "ip": "192.168.122.68"
}

#7 - 02/18/2016 04:25 AM - The Foreman Bot
- Status changed from New to Ready For Testing
- Assignee set to Lukas Zapletal
- Pull request https://github.com/theforeman/foreman/pull/3206 added

#8 - 03/07/2016 07:02 AM - Lukas Zapletal
- Status changed from Ready For Testing to Closed
- % Done changed from 0 to 100

Applied in changeset 4c9529c7bc3cd081fb3d0bdfbee0b2e7d6eabc0a.

#9 - 03/08/2016 08:03 AM - Dominic Cleal
- Legacy Backlogs Release (now unused) set to 141

#10 - 04/28/2016 06:28 AM - Dominic Cleal
- Related to Bug #12425: Fact import triggers ip conflicts checks, which drives cpu utilization to 100% on smart-proxy added