

Foreman - Bug #27160

Foreman fails to find IP address for boot server if main resolver is down

06/26/2019 07:49 AM - Alexander Olofsson

Status:	Closed	
Priority:	Normal	
Assignee:	Lukas Zapletal	
Category:	DNS	
Target version:		
Difficulty:		Fixed in Releases: 1.24.0
Triaged:	Yes	Found in Releases: 1.22.0
Bugzilla link:		Red Hat JIRA:
Pull request:	https://github.com/theforeman/foreman/pull/6861 , https://github.com/theforeman/foreman/pull/6954	

Description

Foreman seems to fail to correctly failover between the resolvers listed in /etc/resolv.conf, leading to failures to build hosts when the first listed resolver is unavailable.

The error;

```
Failed to set Build on host.example.com: ["failed to detect boot server: ERF50-9294 [Foreman::WrappedException]: Unable to find IP address for 'dhcp.example.com' ([Net::Error]: execution expired)" , "Error connecting to 'example.com' domain DNS servers: ns2.example.com - check query_local_nameservers and dns_conflict_timeout settings"]
```

The backtrace;

```
failed to detect boot server: ERF50-9294 [Foreman::WrappedException]: Unable to find IP address for 'dhcp.example.com' ([Net::Error]: execution expired)
Foreman::WrappedException: ERF50-9294 [Foreman::WrappedException]: Unable to find IP address for 'dhcp.example.com' ([Net::Error]: execution expired)
/usr/share/foreman/app/services/nic_ip_resolver.rb:24:in `rescue in to_ip_address'
/usr/share/foreman/app/services/nic_ip_resolver.rb:15:in `to_ip_address'
/usr/share/foreman/app/models/concerns/orchestration/dhcp.rb:91:in `boot_server'
/usr/share/foreman/app/models/concerns/orchestration/dhcp.rb:126:in `dhcp_attrs'
/usr/share/foreman/app/models/concerns/orchestration/dhcp.rb:103:in `build_dhcp_record'
/usr/share/foreman/app/models/concerns/orchestration/dhcp.rb:30:in `block in dhcp_records'
/usr/share/foreman/app/models/concerns/orchestration/dhcp.rb:29:in `map'
/usr/share/foreman/app/models/concerns/orchestration/dhcp.rb:29:in `dhcp_records'
/usr/share/foreman/app/models/concerns/orchestration/dhcp.rb:202:in `dhcp_conflict_detected?'
/usr/share/foreman/vendor/ruby/2.3.0/gems/activerecord-5.2.1/lib/active_support/callbacks.rb:426:in `block in make_lambda'
/usr/share/foreman/vendor/ruby/2.3.0/gems/activerecord-5.2.1/lib/active_support/callbacks.rb:236:in `block in halting_and_conditional'
/usr/share/foreman/vendor/ruby/2.3.0/gems/activerecord-5.2.1/lib/active_support/callbacks.rb:517:in `block in invoke_after'
/usr/share/foreman/vendor/ruby/2.3.0/gems/activerecord-5.2.1/lib/active_support/callbacks.rb:517:in `each'
/usr/share/foreman/vendor/ruby/2.3.0/gems/activerecord-5.2.1/lib/active_support/callbacks.rb:517:in `invoke_after'
/usr/share/foreman/vendor/ruby/2.3.0/gems/activerecord-5.2.1/lib/active_support/callbacks.rb:133:in `run_callbacks'
/usr/share/foreman/vendor/ruby/2.3.0/gems/activerecord-5.2.1/lib/active_support/callbacks.rb:816:in `_run_validation_callbacks'
/usr/share/foreman/vendor/ruby/2.3.0/gems/activemodel-5.2.1/lib/active_model/validations/callbacks.rb:118:in `run_validations!'
```

```
/usr/share/foreman/vendor/ruby/2.3.0/gems/activemodel-5.2.1/lib/active_model/validations.rb:339:in
`valid?'
/usr/share/foreman/vendor/ruby/2.3.0/gems/activerecord-5.2.1/lib/active_record/validations.rb:67:i
n `valid?'
/usr/share/foreman/app/models/concerns/orchestration.rb:86:in `valid?'
/usr/share/foreman/app/models/host/managed.rb:935:in `trigger_nic_orchestration'
...
```

Related issues:

Related to Foreman - Bug #27585: default dns timeout value is nil

Closed

Associated revisions

Revision e75700fd - 08/05/2019 12:27 PM - Lukáš Zapletal

Fixes #27160 - do not use Ruby Timeout for DNS (#6861)

Revision 38a02a7b - 08/07/2019 10:41 AM - Ewoud Kohl van Wijngaarden

Refs #27160 - Update the DNS timeout description

This corrects the short descriptive name to match the internal name. It also changes the description to indicate it's examples. This is important because plugins can also use these functions.

History

#1 - 06/26/2019 08:13 AM - Lukas Zapletal

- Category set to DNS
- Status changed from New to Assigned
- Assignee set to Lukas Zapletal
- Triaged changed from No to Yes

Hello, we use Timeout Ruby class in our codebase which is not good approach. Actually Ruby DNS Resolver reads all "nameserver" entries and tries one after another, however the way this is implemented is that the default Ruby DNS timeout is high (5, 10, 20, 40 seconds) and it probably does not reply fast enough and the global timeout (in our codebase) fires off.

The solution is to remove the extra timeout we have there and rely only on the Ruby DNS resolver timeout. No idea why this wasn't there from the day one. Try the patch and let me know if it solved the problem.

#2 - 06/26/2019 08:20 AM - The Foreman Bot

- Status changed from Assigned to Ready For Testing
- Pull request <https://github.com/foreman/foreman/pull/6861> added

#3 - 08/05/2019 12:27 PM - The Foreman Bot

- Fixed in Releases 1.24.0 added

#4 - 08/05/2019 01:01 PM - Anonymous

- Status changed from Ready For Testing to Closed

Applied in changeset [e75700fd8d376933db02197c03323d03bf77a627](https://github.com/foreman/foreman/pull/6861).

#5 - 08/06/2019 01:24 PM - The Foreman Bot

- Pull request <https://github.com/foreman/foreman/pull/6954> added

#6 - 08/11/2019 02:25 PM - Amir Fefer

- Related to Bug #27585: default dns timeout value is nil added

#7 - 08/11/2019 02:29 PM - Amir Fefer

I think its very non-trivial for a user (like me) to understand how to use this setting.... also, this seems a lot like implementation details that leak into the settings page, and we should find a better way to represent it?