

## Smart Proxy - Bug #37355

### Creating a DHCP host can cause an IPv6 address to be looked up

04/15/2024 03:01 PM - Ewoud Kohl van Wijngaarden

<b>Status:</b>	Closed	
<b>Priority:</b>	Normal	
<b>Assignee:</b>	Ewoud Kohl van Wijngaarden	
<b>Category:</b>	DHCP	
<b>Target version:</b>		
<b>Difficulty:</b>		<b>Fixed in Releases:</b> 3.11.0
<b>Triaged:</b>	No	<b>Found in Releases:</b> 3.5.3
<b>Bugzilla link:</b>		<b>Red Hat JIRA:</b>
<b>Pull request:</b>	<a href="https://github.com/foreman/smart-proxy/pull/890">https://github.com/foreman/smart-proxy/pull/890</a>	

#### Description

If the TFTP server has the hostname kwik.example.com that only has an IPv6 address the OMAPI code can try to resolve it and then convert it to an IPv4 address:

```
2024-04-15T14:51:40 244f54fc [I] Next-server option not IPv4, trying to resolve 'kwik.example.com'
2024-04-15T14:51:40 244f54fc [E] invalid value for Integer(): "2001:db8::1"
2024-04-15T14:51:40 244f54fc [W] Error details for invalid value for Integer(): "2001:db8::1": <ArgumentError>: invalid value for Integer(): "2001:db8::1"
/usr/share/foreman-proxy/modules/dhcp_common/isc/omapi_provider.rb:218:in `%'
/usr/share/foreman-proxy/modules/dhcp_common/isc/omapi_provider.rb:218:in `block in ip2hex'
/usr/share/foreman-proxy/modules/dhcp_common/isc/omapi_provider.rb:218:in `map'
/usr/share/foreman-proxy/modules/dhcp_common/isc/omapi_provider.rb:218:in `ip2hex'
/usr/share/foreman-proxy/modules/dhcp_common/isc/omapi_provider.rb:208:in `rescue in bootServer'
/usr/share/foreman-proxy/modules/dhcp_common/isc/omapi_provider.rb:203:in `bootServer'
/usr/share/foreman-proxy/modules/dhcp_common/isc/omapi_provider.rb:51:in `om_add_record'
/usr/share/foreman-proxy/modules/dhcp_common/isc/omapi_provider.rb:36:in `add_record'
/usr/share/foreman-proxy/modules/dhcp/dhcp_api.rb:81:in `block in <class:DhcpApi>'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1686:in `call'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1686:in `block in compile!'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1023:in `block (3 levels) in route!'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1042:in `route_eval'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1023:in `block (2 levels) in route!'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1071:in `block in process_route'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1069:in `catch'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1069:in `process_route'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1021:in `block in route!'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1018:in `each'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1018:in `route!'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1140:in `block in dispatch!'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1112:in `block in invoke'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1112:in `catch'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1112:in `invoke'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1135:in `dispatch!'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:949:in `block in call!'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1112:in `block in invoke'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1112:in `catch'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1112:in `invoke'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:949:in `call!'
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:938:in `call'
/usr/share/gems/gems/rack-2.2.4/lib/rack/method_override.rb:24:in `call'
/usr/share/foreman-proxy/lib/proxy/log.rb:101:in `call'
/usr/share/foreman-proxy/lib/proxy/request_id_middleware.rb:11:in `call'
/usr/share/gems/gems/rack-protection-2.2.2/lib/rack/protection/xss_header.rb:18:in `call'
/usr/share/gems/gems/rack-protection-2.2.2/lib/rack/protection/path_traversal.rb:16:in `call'
/usr/share/gems/gems/rack-protection-2.2.2/lib/rack/protection/json_csrf.rb:26:in `call'
/usr/share/gems/gems/rack-protection-2.2.2/lib/rack/protection/base.rb:50:in `call'
```

```
/usr/share/gems/gems/rack-protection-2.2.2/lib/rack/protection/base.rb:50:in `call'  
/usr/share/gems/gems/rack-protection-2.2.2/lib/rack/protection/frame_options.rb:31:in `call'  
/usr/share/gems/gems/rack-2.2.4/lib/rack/null_logger.rb:11:in `call'  
/usr/share/gems/gems/rack-2.2.4/lib/rack/head.rb:12:in `call'  
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/show_exceptions.rb:22:in `call'  
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:218:in `call'  
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1993:in `call'  
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1553:in `block in call'  
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1769:in `synchronize'  
/usr/share/gems/gems/sinatra-2.2.2/lib/sinatra/base.rb:1553:in `call'  
/usr/share/gems/gems/rack-2.2.4/lib/rack/urlmap.rb:74:in `block in call'  
/usr/share/gems/gems/rack-2.2.4/lib/rack/urlmap.rb:58:in `each'  
/usr/share/gems/gems/rack-2.2.4/lib/rack/urlmap.rb:58:in `call'  
/usr/share/gems/gems/rack-2.2.4/lib/rack/builder.rb:244:in `call'  
/usr/share/gems/gems/rack-2.2.4/lib/rack/handler/webrick.rb:95:in `service'  
/usr/share/ruby/webrick/httpserver.rb:140:in `service'  
/usr/share/ruby/webrick/httpserver.rb:96:in `run'  
/usr/share/ruby/webrick/server.rb:307:in `block in start_thread'  
/usr/share/gems/gems/logging-2.3.1/lib/logging/diagnostic_context.rb:474:in `block in create_with_logging_context'
```

## Associated revisions

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### Revision 3f079df6 - 04/25/2024 10:42 AM - Ewoud Kohl van Wijngaarden

Fixes #37355 - Explicitly query for IPv4 address in omapi code

The omapi API is IPv4-only so the DNS lookup should also only ask for IPv4 addresses. Otherwise it may return an IPv6 address which ip2hex can't deal with.

## History

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### #1 - 04/15/2024 03:03 PM - The Foreman Bot

- Status changed from New to Ready For Testing
- Assignee set to Ewoud Kohl van Wijngaarden
- Pull request <https://github.com/foreman/smart-proxy/pull/890> added

### #2 - 04/25/2024 10:42 AM - The Foreman Bot

- Fixed in Releases 3.11.0 added

### #3 - 04/25/2024 11:00 AM - Ewoud Kohl van Wijngaarden

- Status changed from Ready For Testing to Closed

Applied in changeset [3f079df67820053dcf626f0dd4f908cfc3bc9830](#).