Foreman - Bug #26060

Fact parse error - IPAddress::InvalidAddressError: invalid address

02/15/2019 07:17 PM - Karl Katzke

Status: Closed
Priority: Normal
Assignee: Karl Katzke
Category: Facts
Target version:
Difficulty:
Triaged: Yes
Bugzilla link:

Description
When this error happens, load spikes on the server and all of our infrastructure shows as down for a period of time. We're running version 1.20.2 on CentOS 7.4.

2019-02-15T03:39:16 [I|app|53a70] Import facts for 'assweb061.hahosting.local' completed. Added: 63, Updated: 74, Deleted 72 facts
2019-02-15T03:39:16 [W|app|53a70] Action failed IPAddress::InvalidAddressError: invalid address
/usr/share/foreman/app/models/subnet.rb:295:in `new'
/usr/share/foreman/app/models/subnet.rb:295:in `subnet_for'
/usr/share/foreman/app/models/host/base.rb:466:in `set_interface'
/usr/share/foreman/app/models/host/base.rb:208:in `block in set_interfaces'
/usr/share/foreman/app/models/host/base.rb:205:in `each'
/usr/share/foreman/app/models/host/base.rb:205:in `set_interfaces'
/usr/share/foreman/app/models/host/base.rb:183:in `populate_fields_from_facts'
/usr/share/foreman/app/models/host/base.rb:411:in `populate_fields_from_facts'
/usr/share/foreman/app/models/concerns/puppet_host_extensions.rb:3:in `populate_fields_from_facts'
/usr/share/foreman/app/services/foreman/telemetry_helper.rb:27:in `telemetry_duration_histogram'
/usr/share/foreman/app/models/host/base.rb:160:in `parse_facts'
/usr/share/foreman/app/models/host/base.rb:149:in `import_facts'
/usr/share/foreman/app/models/host/managed.rb:324:in `import_facts'
/usr/share/foreman/app/controllers/api/v2/hosts_controller.rb:288:in `facts'
/opt/theforeman/tfm-ror52/root/usr/share/gems/gems/actionpack-5.2.1/lib/action_controller/metal/basic_implicit_render.rb:6:in `send_action'
/usr/share/foreman/app/controllers/api/v2/base_controller.rb:163:in `disable_json_root'
/opt/theforeman/tfm-ror52/root/usr/share/gems/gems/actionpack-5.2.1/lib/active_support/callbacks.rb:118:in `block in run_callbacks'
/usr/share/foreman/app/controllers/concerns/application_shared.rb:15:in `set_time_zone'
/opt/theforeman/tfm-ror52/root/usr/share/gems/gems/actionpack-5.2.1/lib/active_support/callbacks.rb:118:in `block in run_callbacks'
/usr/share/foreman/app/controllers/concerns/foreman/threads_session.rb:32:in `clear_thread'
/opt/theforeman/tfm-ror52/root/usr/share/gems/gems/actionpack-5.2.1/lib/active_support/callbacks.rb:118:in `block in run_callbacks'
/usr/share/foreman/app/controllers/concerns/foreman/controller/topbar_sweeper.rb:12:in `set_topbar_sweeper_controller'
/opt/theforeman/tfm-ror52/root/usr/share/gems/gems/actionpack-5.2.1/lib/active_support/callbacks.rb:118:in `block in run_callbacks'

Found in Releases: 1.20.1, 1.20.2
Related to Foreman - Bug #27246: IPAddress::InvalidAddressError on valid link-lo...

Closed

History

#1 - 02/15/2019 07:19 PM - Karl Katzke
- Subject changed from Fact parse error to Fact parse error - IPAddress::InvalidAddressError: invalid address

#2 - 02/15/2019 07:23 PM - Karl Katzke
- Found in Releases 1.20.1 added

#3 - 02/18/2019 07:05 AM - Lukas Zapletal
- Status changed from New to Need more information

Karl, can you share facts in JSON format for the node which failed? Ideally gather them from the host itself.

#4 - 02/18/2019 05:42 PM - Karl Katzke
Lukas, I'd love to, but it's large and has a lot of information in it that I would need to redact. Is there a specific set of lines that I can provide that would help isolate the issue?

Since this involves ipv6 addresses, the only JSON line that includes anything regarding ipv6 is below.

FWIW, this is a custom fact from a Windows server.

Snippet including the ipv6 address:

```
"ha_ips_v6": "fe80::b9c2:f4b5:55d1:9d82",
"ha_livedate": "2012-10-16",
```

#5 - 02/19/2019 02:48 PM - Karl Katzke
- Status changed from Need more information to New

#6 - 02/19/2019 04:33 PM - Karl Katzke
We found another place where ipv6 is used, and this has an unfamiliar character in it.

```
"bindings6": [ 
    
    "address": "fe80::b9c2:f4b5:55d1:9d82%14",
    "netmask": "ffff:ffff:ffff:ffff:",
    "network": "fe80::%14"
  ],
  "ip": "10.89.121.91",
  "ip6": "fe80::b9c2:f4b5:55d1:9d82%14",
  "mac": "00:50:56:B7:51:FB",
  "mtu": 1500,
```

03/28/2022
#7 - 02/19/2019 04:47 PM - Karl Katzke
Further research indicates that's a Windows link local address. Shouldn't those not be being stored? Could the link-local scope be causing Foreman to bomb out on that address?

#8 - 02/19/2019 05:26 PM - Karl Katzke
To confirm that it's an issue parsing ipv6 host addresses, we disabled ipv6 on one host (which required a reboot) and it now makes it into Foreman correctly.
Unfortunately, it's not feasible at this time to reboot our entire infrastructure. so we still need a code workaround.

#9 - 02/20/2019 08:56 AM - Lukas Zapletal
- Triaged changed from No to Yes
Great you isolated the problem, indeed managing Windows is not our primary focus and there are hidden dragons. Please provide us a valid JSON which we can then put into our test suite, simulate the problem and fix it. Feel free to redact everything except the relevant bits, but it must be a valid JSON.
Feel free to send the unmodified JSON to me directly to lzap at redhat dot com and I can try to reproduce, fix and safely delete the data afterwards.

#10 - 03/04/2019 01:17 PM - Lukas Zapletal
- Status changed from New to Closed
The JSON data you have provided me is in an invalid encoding. I don't think we will be able to provide a workaround for that in Foreman, this needs to be fixed and workarounded in facter itself.

```ruby
require "json"
filepath = "asswweb061.json"
text = File.read(filepath, mode: "rb", encoding: "UTF-16LE")
json = JSON.parse(text)

JSON::ParserError (765: unexpected token at '{")
  "aio_agent_version": "5.5.7",
```

I am going to close the ticket, reopen if you have a specific request or solution to the problem.

#11 - 07/08/2019 12:05 PM - Martyn Smith
- Related to Bug #27246: IPAddress::InvalidAddressError on valid link-local address on Windows added