

Ruby master - Bug #12112

Resolv.getname with IPv6 noop

02/25/2016 11:23 PM - helge000 (Daniel Helgenberger)

Status: Closed	
Priority: Normal	
Assignee: akr (Akira Tanaka)	
Target version:	
ruby -v: 1.9.3 - 2.2.1	Backport: 2.1: UNKNOWN, 2.2: UNKNOWN, 2.3: UNKNOWN

Description

Currently reverse resolving IPv6 addresses using stdlib Resolv does not work.

How reproducible

always

Steps:

1. Require 'resolv'
2. Use #getname or #getnames with a valid, reverse resolvable IPv6 address

Result:

resolv error with #getname, empty result using #getnames

Expected result:

Resolved to hostname as with IPv4

Example, system:

```
dig @8.8.8.8 +short -x 2a00:1450:4001:803::1018
```

```
fra07s30-in-x18.1e100.net.
```

ruby:

```
[1] pry(main)> require 'resolv'
=> false
[2] pry(main)> resolver = Resolv::DNS.new(:nameserver => '8.8.8.8')
#[...]
[3] pry(main)> resolver.getname('2a00:1450:4001:803::1018')
Resolv::ResolvError: no name for 2a00:1450:4001:803::1018
from ~/.rvm/rubies/ruby-2.0.0-p643/lib/ruby/2.0.0/resolv.rb:128:in `getname'
[4] pry(main)> resolver.getnames('2a00:1450:4001:803::1018')
=> []
```

History

#1 - 02/26/2016 02:09 PM - wb (Dmitri Dolguikh)

- File 12112_fixes_ipv6_ptr_resolver.patch added

I'm seeing this issue on 2.0.0, 2.2.1, 2.2.2, but not 1.9.3 and 2.2.3 (I suspect all versions between 2.0.0 and 2.2.3 are broken).

This is due to how Resolv::IPv6#to_name and Resolv::Name.initialize work. In 2.2.3 Resolv::Name constructor was changed to convert labels to Resolv::Label::Str. Before that any comparison between instances of Resolv::Name constructed from a string via Resolv::Name.create and Resolv::Name.new would fail. 1.9.3 is a bit different, as it's implementation of Resolv::Name.== converts labels to a string for the comparison.

Patch for ruby_2_0_0 branch attached.

#2 - 03/16/2016 09:11 AM - shyouhei (Shyouhei Urabe)

- Status changed from Open to Assigned

- Assignee set to akr (Akira Tanaka)

#3 - 08/23/2019 08:52 PM - jeremyevans0 (Jeremy Evans)

- Status changed from Assigned to Closed

Files

12112_fixes_ipv6_ptr_resolver.patch	846 Bytes	02/26/2016	wb (Dmitri Dolguikh)
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