Ruby master - Feature #13677
Add more details to error "Name or service not known (SocketError)"

06/23/2017 04:51 PM - dsbonev (Dimitar Bonev)

Status: Feedback
Priority: Normal
Assignee:
Target version:

Description
ruby version: ruby 2.4.0p0 (2016-12-24 revision 57164) [x86_64-linux]
ruby script:

```ruby
require 'socket'
TCPSocket.new 'nonexistent.example.com', 80
```

Result: getaddrinfo: Name or service not known (SocketError)

Expected: getaddrinfo: Name or service not known for nonexistent.example.com (SocketError)

Why:
This will make it easier to resolve errors of this kind by just looking at the logged messages. It is common for production and non-production (development, test) code to connect to different hosts which can produce errors due to wrong configuration. This change will make the ruby stdlib code more consistent as other methods already provide useful error information. Some examples:

```ruby
host = 'nonexistent.example.com'; port = 80
Resolv.getaddress host #=> Resolv::ResolvError: no address for nonexistent.example.com
Socket.getservbyname host #=> SocketError: no such service nonexistent.example.com/tcp
Net::HTTP.get Struct.new(:hostname, :port, :scheme).new(host, port, 'http') #=> SocketError: Failed to open TCP connection to nonexistent.example.com:80 (getaddrinfo: Name or service not known)
```

If this issue will be resolved, please add any useful information to the error message in addition to the host.

History
#1 - 06/24/2017 05:36 PM - shevegen (Robert A. Heiler)
In general I agree that error messages should be as useful as possible.

(By the way, I think if you indent ruby code here in the bug tracker with four space tokens on the left side aka ` `, colouring will be enabled. Would make it easier for others to read it... let me try it).

```ruby
host = 'nonexistent.example.com'; port = 80
Resolv.getaddress host #=> Resolv::ResolvError: no address for nonexistent.example.com
Socket.getservbyname host #=> SocketError: no such service nonexistent.example.com/tcp
Net::HTTP.get Struct.new(:hostname, :port, :scheme).new(host, port, 'http') #=> SocketError: Failed to open TCP connection to nonexistent.example.com:80 (getaddrinfo: Name or service not known)
```

Edit: Oops not quite ... only indents to the left side as blockquote or so...

```ruby
host = 'nonexistent.example.com'; port = 80
Resolv.getaddress host #=> Resolv::ResolvError: no address for nonexistent.example.com
Socket.getservbyname host #=> SocketError: no such service nonexistent.example.com/tcp
Net::HTTP.get Struct.new(:hostname, :port, :scheme).new(host, port, 'http') #=> SocketError: Failed to open TCP connection to nonexistent.example.com:80 (getaddrinfo: Name or service not known)
```

Guess one has to prefix via "~~~ ruby" and end with "~~~" or just use the buttons.

#2 - 07/11/2017 08:00 AM - dsbonev (Dimitar Bonev)
- Description updated
It sounds fine.

- Status changed from Open to Feedback

The proposed functionality sounds fine but no one currently have spare time to implement this; patch welcomed.

I would like to work on this one.

Please do, patches are always welcome.

I never contributed to Ruby and I'm a bit lost on how to start. I'm more familiar with Open source contributions via PRs. Could you please give me some pointers on how to start and where to start looking? Thanks in advance!

You can contribute PRs to Ruby on github: see https://github.com/ruby/ruby.

Could you please give me some pointers on how to start and where to start looking? Thanks in advance!