Ruby master - Feature #9459

Net::HTTP initializes openssl library after TCP connection is established

01/29/2014 05:53 AM - joshc (Josh C)

| Status:  | Assigned      |
| Priority: | Normal        |
| Assignee: | naruse (Yui NARUSE) |

**Description**

When making an HTTPS connection, the Net::HTTP#connect method makes the following calls:

1. TCPSocket.new  
2. OpenSSL::SSL::SSLContext.new  
3. OpenSSL::SSL::SSLSocket.connect

Here is a link to the 2.1.0 version, though the basic sequence is the same in trunk and as far back as 1.8.7, possibly earlier.

The problem is that between step 1 and 3, the server must keep the TCP socket open while the SSL client calls OpenSSL::SSL::SSLContext.new. The first time this code path is taken, step 2 has the side effect of initializing the OpenSSL library. This can take a non-trivial amount of time, and is made worse when several clients start at the same time.

I would suggest that the order of operations be switched to:

1. OpenSSL::SSL::SSLContext.new  
2. TCPSocket.new  
3. OpenSSL::SSL::SSLSocket.connect

I've attached a patch that shows this. It is based off of trunk.

Thank you

**History**

#1 - 02/25/2014 08:34 AM - nagachika (Tomoyuki Chikanaga)  
- Status changed from Open to Assigned

#2 - 01/05/2018 09:00 PM - naruse (Yui NARUSE)  
- Target version deleted (2.2.0)

#3 - 10/27/2020 09:55 PM - jeremyevans0 (Jeremy Evans)  
- Backport deleted (1.9.3: UNKNOWN, 2.0.0: UNKNOWN, 2.1: UNKNOWN)  
- ruby -v deleted (ruby 1.8.7 (2012-02-08 patchlevel 358) [universal-darwin12.0])  
- Tracker changed from Bug to Feature

This appears to still be an issue, though I think this is a feature request and not a bug. I've submitted the patch as a pull request to the net-http repository: [https://github.com/ruby/net-http/pull/4](https://github.com/ruby/net-http/pull/4)

**Files**

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<tr>
<td>net_http_connect.patch</td>
<td>742 Bytes</td>
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<td>joshc (Josh C)</td>
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