

Ruby master - Feature #6617

Net::HTTP: Bind to a specific local IP/port

06/21/2012 11:15 AM - mksm (Ricardo Amorim)

Status:	Closed	
Priority:	Normal	
Assignee:	naruse (Yui NARUSE)	
Target version:	2.0.0	
Description		
Despite having several solutions floating around the net, this feature is currently not present in Net::HTTP. I searched the issues but didn't find any discussion on this. How does the dev team feel about this? Can I submit a patch for revision?		
Related issues:		
Related to Ruby master - Bug #6746: test_bind_to_local_host(TestNetHTTPLocalB...	Closed	07/17/2012

Associated revisions

Revision 46898537 - 07/11/2012 06:37 PM - naruse (Yui NARUSE)

- lib/net/http.rb (Net::HTTP#connect): use local_host and local_port if specified. patched by Ricardo Amorim [Feature #6617]

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@36367 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

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History

#1 - 06/22/2012 08:43 AM - drbrain (Eric Hodel)

- Category set to lib

Bind to a local port like TCPSocket.new does? I'm sure this feature could be added.

I think the easiest way to add it would result in an API like:

```
http = Net::HTTP.new remote_host
http.local_host = local_host
http.start do
  ...
end
```

Instead of passing the local host and port as parameters to `Net::HTTP.new` or `Net::HTTP.start`.

#2 - 06/22/2012 10:15 AM - mksm (Ricardo Amorim)

I agree. You can pass both `local_ip` and `local_port` to `TCPsocket.open` in `Net::HTTP#connect`.

Having the setter exposed would allow the user to change the local IP address between connections. Any ideas if this could cause problems with `Net::HTTP` or remote servers? There's also proxy and ipv6 support, both which I have never tested using this approach.

#3 - 06/26/2012 03:44 AM - mksm (Ricardo Amorim)

- File `net-http_bind_to_local_ip.patch` added

The patch adds accessors for `@local_host` and `@local_port` and uses both in `TCPsocket.open` call.

#4 - 06/26/2012 06:41 AM - drbrain (Eric Hodel)

- Assignee set to `naruse` (Yui NARUSE)

- Target version set to `2.0.0`

#5 - 07/03/2012 01:14 PM - naruse (Yui NARUSE)

It looks good.

Could you provide a test for it?

It should be a patch for `test/net/http/test_http.rb`

#6 - 07/04/2012 07:07 PM - madeofcode (Mark Dodwell)

Forgive me if this is a silly question, but what is the point of initializing the instance variables to nil in the initializer?

#7 - 07/05/2012 12:05 AM - jballanc (Joshua Ballanco)

```
=begin
```

Not sure, but it may be related to this:

```
>> defined?(@foo)
=> nil
>> @foo = nil
=> nil
>> defined?(@foo)
=> "instance-variable"
```

```
=end
```

#8 - 07/05/2012 02:19 PM - mksm (Ricardo Amorim)

- File `net-http_bind_to_local_ip-tests.patch` added

[naruse \(Yui NARUSE\)](#): tests attached! It seems that `local_host` cannot be nil when setting `local_port` in `TCPsocket.open`.

[madeofcode \(Mark Dodwell\)](#): I also do not know, just followed the pattern. `jballanc` may have a point, but i can't see why there would be `#defined?` checks on ivars.

#9 - 07/06/2012 04:49 AM - drbrain (Eric Hodel)

```
=begin
```

You need to initialize instance variables to prevent warnings on uninitialized access:

```
$ ruby -we 'p @x'
-e:1: warning: instance variable @x not initialized
nil
=end
```

#10 - 07/12/2012 03:37 AM - naruse (Yui NARUSE)

- Status changed from `Open` to `Closed`

- % Done changed from `0` to `100`

This issue was solved with changeset `r36367`.

Ricardo, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

-
- lib/net/http.rb (Net::HTTP#connect): use local_host and local_port if specified. patched by Ricardo Amorim [Feature [#6617](#)]

Files

net-http_bind_to_local_ip.patch	1.25 KB	06/26/2012	mksm (Ricardo Amorim)
net-http_bind_to_local_ip-tests.patch	1.46 KB	07/05/2012	mksm (Ricardo Amorim)