Ruby - Feature #5180

net/http 0 0 0 0 0 0 0 0 0 IP 0 0 0 0 0 0

08/10/2011 11:45 AM - naruse (Yui NARUSE)

Status: Closed **Priority:** Normal

naruse (Yui NARUSE) Assignee:

```
Target version:
Description
00000000 "ruby-lang.org" 0000001P 00000 127.0.0.1 000
0000000000000
Net::HTTP.start("ruby-lang.org", ipaddr: '127.0.0.1')
diff --git a/lib/net/http.rb b/lib/net/http.rb
index 7b9ec4f..6d034e0 100644
--- a/lib/net/http.rb
+++ b/lib/net/http.rb
@@ -524,7 +524,7 @@ module Net #:nodoc:
     # _opt_ :: optional hash
     # _opt_ sets following values by its accessor.
     # The keys are ca_file, ca_path, cert, cert_store, ciphers,
     # The keys are ipaddr, ca_file, ca_path, cert, cert_store, ciphers,
     # close_on_empty_response, key, open_timeout, read_timeout, ssl_timeout,
     # ssl_version, use_ssl, verify_callback, verify_depth and verify_mode.
     # If you set :use_ssl as true, you can use https and default value of
@@ -542,6 +542,7 @@ module Net #:nodoc:
      port, p_addr, p_port, p_user, p_pass = *arg
      port = https_default_port if !port && opt && opt[:use_ssl]
      http = new(address, port, p_addr, p_port, p_user, p_pass)
      http.ipaddr = opt[:ipaddr] if opt[:ipaddr]
      if opt
        if opt[:use_ssl]
@@ -575,6 +576,7 @@ module Net #:nodoc:
    def initialize(address, port = nil)
      @address = address
      @port
             = (port || HTTP.default_port)
      @ipaddr = nil
      @curr_http_version = HTTPVersion
      @no_keepalive_server = false
      @close_on_empty_response = false
@@ -620,6 +622,17 @@ module Net #:nodoc:
    # The port number to connect to.
    attr_reader :port
  # The IP address to connect to/used to connect to
    def ipaddr
      started? ? @socket.io.peeraddr[3] : @ipaddr
    end
  # Set the IP address to connect to
    def ipaddr=(addr)
+
      raise IOError, "ipaddr value changed, but session already started" if started?
      @ipaddr = addr
+
    end
     # Number of seconds to wait for the connection to open. Any number
```

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```
# may be used, including Floats for fractional seconds. If the HTTP
# object cannot open a connection in this many seconds, it raises a
@@ -945,7 +958,7 @@ module Net #:nodoc:
    # without proxy

def conn_address
- address()
+ @ipaddr || address()
end

def conn_port
```

Related issues:

Has duplicate Ruby - Feature #15215: HTTPS server name indication (SNI): expl...

Closed

Associated revisions

Revision 54072e329cab7207fba133caba4fc12b45add8f9 - 12/09/2019 11:21 AM - naruse (Yui NARUSE)

Add ipaddr optional parameter to Net::HTTP#start

to replace the address for TCP/IP connection [Feature #5180]

There're 3 layers of hostname:

- host address for TCP/IP
- TLS server name
- HTTP Host header value

To test DNS round robin or check server certificate from server local, people sometimes want to connect server with given IP address but keep TLS server name and HTTP Host header value.

closes [Feature #15215]

closes https://github.com/ruby/ruby/pull/1893 closes https://github.com/ruby/ruby/pull/1893

Revision 54072e329cab7207fba133caba4fc12b45add8f9 - 12/09/2019 11:21 AM - naruse (Yui NARUSE)

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closes [Feature #15215]

closes https://github.com/ruby/ruby/pull/1893 closes https://github.com/ruby/ruby/pull/1977

Revision 54072e32 - 12/09/2019 11:21 AM - naruse (Yui NARUSE)

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closes [Feature #15215]

closes https://github.com/ruby/ruby/pull/1893 closes https://github.com/ruby/ruby/pull/1893

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```
#1 - 08/10/2011 12:23 PM - shyouhei (Shyouhei Urabe)
(08/10/2011 11:46 AM), Yui NARUSE wrote:
 00000000 "ruby-lang.org" 0000001P 00000 127.0.0.1 000
#2 - 08/10/2011 03:05 PM - naruse (Yui NARUSE)
Shyouhei Urabe wrote:
 (08/10/2011 11:46 AM), Yui NARUSE wrote:
   0000000 "ruby-lang.org" 0000001P 00000 127.0.0.1 000
 127.0.0.1 000000000000
0000000000000000000000
#3 - 08/10/2011 03:23 PM - akr (Akira Tanaka)
2011 8 10 15:05 Yui NARUSE naruse@airemix.jp:
  [00 0][000 000][Tanaka Akira]
#4 - 08/10/2011 05:23 PM - naruse (Yui NARUSE)
2011 8 10 15:20 Tanaka Akira akr@fsii.org:
 2011 8 10 15:05 Yui NARUSE naruse@airemix.jp:
    DDD lexcal DDDD dynamic DDDDDDDDD (DDD local rebinding)
00000000000000000
require 'net/http'
addrs = %w/192.168.0.1 192.168.0.2 192.168.0.3/
addrs.each do |addr|
```

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```
Net::HTTP.start('example.org', use_ssl: true, ipaddr: addr){|h| p h.get('/')}
end
NARUSE, Yui naruse@airemix.jp
#5 - 08/10/2011 06:23 PM - Anonymous
Net::HTTP.start("127.0.0.1") {|h|
print h.request_get( '/index.html' , {"host"=>"ruby-lang.org"}).body
*start0 IP0 0 0 0 0 0 0 0 0 0 host0 0 0 0 0 0
00000HTTP00000000000000
0000v4/v60000000000000v40000000
On Wed, 10 Aug 2011 15:05:24 +0900
Yui NARUSE naruse@airemix.ip wrote:
   Issue #5180 has been updated by Yui NARUSE.
   Shyouhei Urabe wrote:
      (08/10/2011 11:46 AM), Yui NARUSE wrote:
         00000000 "ruby-lang.org" 0000001P 00000 127.0.0.1 000
      127.0.0.1
   Feature #5180: net/http 0000000 IP 0000000
   http://redmine.rubv-lang.org/issues/5180
   Author: Yui NARUSE
   Status: Open
   Priority: Normal
   Assignee:
   Category: lib
   Target version:
   00000000 "ruby-lang.org" 0000001P 00000 127.0.0.1 000
   000000000000
   Net::HTTP.start("ruby-lang.org", ipaddr: '127.0.0.1')
   diff --git a/lib/net/http.rb b/lib/net/http.rb
   index 7b9ec4f..6d034e0 100644
   --- a/lib/net/http.rb
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   @@ -524,7 +524,7 @@ module Net #:nodoc:
   # opt :: optional hash
   # opt sets following values by its accessor.
```

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- The keys are ca_file, ca_path, cert, cert_store, ciphers,
- The keys are ipaddr, ca_file, ca_path, cert, cert_store, ciphers, close_on_empty_response, key, open_timeout, read_timeout, ssl_timeout,

 $ssl_version, \, use_ssl, \, verify_callback, \, verify_depth \, and \, verify_mode.$

If you set :use_ssl as true, you can use https and default value of

```
@@ -542,6 +542,7 @@ module Net #:nodoc:
port, p_addr, p_port, p_user, p_pass = *arg
port = https_default_port if !port && opt && opt[:use_ssl]
http = new(address, port, p_addr, p_port, p_user, p_pass)

•

if opt
    if opt[:use_ssl]

@@ -575,6 +576,7 @@ module Net #:nodoc:
def initialize(address, port = nil)
@address = address
@port = (port || HTTP.default_port)

•

@curr_http_version = HTTPVersion
    @no_keepalive_server = false
    @close_on_empty_response = false
```

@@ -620,6 +622,17 @@ module Net #:nodoc:

The port number to connect to.

- The IP address to connect to/used to connect to
- def ipaddr

attr_reader :port

- •
- end
- Set the IP address to connect to
- def ipaddr=(addr)
- •
- end
- Number of seconds to wait for the connection to open. Any number may be used, including Floats for fractional seconds. If the HTTP object cannot open a connection in this many seconds, it raises a

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@@ -945,7 +958,7 @@ module Net #:nodoc: # without proxy def conn_address end def conn_port http://redmine.ruby-lang.org #6 - 08/10/2011 06:53 PM - naruse (Yui NARUSE) 2011 8 10 18:21 tadanori kojima tadanori.kojima@i2ts.com: Net::HTTP.start("127.0.0.1") {|h| print h.request_get('/index.html' , {"host"=>"ruby-lang.org"}).body 00000HTTP00000000000000 0000v4/v60000000000000v40000000 000000 NARUSE, Yui naruse@airemix.ip #7 - 08/10/2011 06:59 PM - akr (Akira Tanaka) 2011 8 10 17:20 NARUSE, Yui naruse@airemix.jp: **net/http** 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 [00 0][000 000][Tanaka Akira] #8 - 08/11/2011 12:23 PM - Anonymous On Wed, 10 Aug 2011 18:33:08 +0900 "NARUSE, Yui" naruse@airemix.jp wrote:

2011 8 10 18:21 tadanori kojima tadanori.kojima@i2ts.com:

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```
Net::HTTP.start("127.0.0.1") {|h|
      print h.request_get( '/index.html' , {"host"=>"ruby-lang.org"}).body
       *start0 IP0 0 0 0 0 0 0 0 0 host0 0 0 0 0 0 0
      00000HTTP000000000000000
   000000000
Onet/http.rb
_0_0_0_0_
s.connect
if @ssl_context.verify_mode != OpenSSL::SSL::VERIFY_NONE
s.post_connection_check(@address)
_0_0_0_0_
0000001.8.50000000000cent50000000
_0_0_0_0_
diff -u net/http.rb.orig net/http.rb
--- net/http.rb.orig 2011-08-11 11:09:21.000000000 +0900
+++ net/http.rb 2011-08-11 11:39:08.000000000 +0900
@@ -470,6 +470,7 @@
@debug_output = nil
@use_ssl = false
@ssl_context = nil
   end
   def inspect
   @@ -526,6 +527,8 @@
   false # redefined in net/https
 • attr_accessor :common_name

    Opens TCP connection and HTTP session.

   When this method is called with block, gives a HTTP object
@@ -585,7 +588,7 @@
end
s.connect
if @ssl_context.verify_mode != OpenSSL::SSL::VERIFY_NONE
      end
    end
    on_connect
```

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addrs = %w/192.168.0.1 192.168.0.2 192.168.0.3/

```
addrs.each do |addr|
Net:: HTTP.start(addr,\,use\_ssl:\,true,\,common\_name:\,'example.org')\{|h|\,\,p\,\,h.get('/')\}
00000000
UHTTPUHostUUUUIP/HostnameUVirtualHostUUUUUU
USSLUCNUUUIP/HostnameUUUCNAMEUUUU)
0000v4/v60000000000000v40000000
    000000
  NARUSE, Yui naruse@airemix.jp
End of mail
#9 - 08/11/2011 03:30 PM - znz (Kazuhiro NISHIYAMA)
DDDDD wrote:
  00000000
  000000
#10 - 08/11/2011 05:53 PM - Anonymous
On Thu, 11 Aug 2011 15:30:06 +0900
Kazuhiro NISHIYAMA redmine@ruby-lang.org wrote:
  Issue #5180 has been updated by Kazuhiro NISHIYAMA.
  DDDDD wrote:
    00000000
    000000
```

#11 - 08/11/2011 11:23 PM - naruse (Yui NARUSE)

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```
2011 8 10 17:20 NARUSE, Yui naruse@airemix.jp:
```



```
require 'net/http'
addrs = %w/192.168.0.1 192.168.0.2 192.168.0.3/
def TCPSocket.open(host, serv, *rest)
TCPSocket.new(Thread.current[:ipaddr], serv, *rest)
end
addrs.map do |addr|
Thread.new do
Thread.current[:ipaddr] = addr
Net::HTTP.start('exapmle.org', use_ssl: true) do |h|
r = h.head('/')
p [addr, h.instance_variable_get(:@socket).io.peeraddr[3], r]
end
end
end.each(&:join)
class << TCPSocket
remove_method :open
end
```


--

NARUSE, Yui naruse@airemix.jp

#12 - 08/11/2011 11:23 PM - naruse (Yui NARUSE)

(2011/08/11 17:48), tadanori kojima wrote:

On Thu, 11 Aug 2011 15:30:06 +0900 Kazuhiro NISHIYAMA redmine@ruby-lang.org wrote:

Issue #5180 has been updated by Kazuhiro NISHIYAMA.

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--

NARUSE, Yui naruse@airemix.jp

#13 - 03/27/2012 02:31 AM - mame (Yusuke Endoh)

- Status changed from Open to Assigned
- Assignee set to naruse (Yui NARUSE)

0000

00000000000000000 00000net/http 000 issue 0000000 0000000000000000000000000000

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Yusuke Endoh mame@tsg.ne.jp

#14 - 03/27/2012 11:41 PM - naruse (Yui NARUSE)

- Status changed from Assigned to Rejected

DDD reject DDDD

#15 - 12/09/2019 09:08 AM - naruse (Yui NARUSE)

- Has duplicate Feature #15215: HTTPS server name indication (SNI): explicit server_name in Net::HTTP added

#16 - 12/09/2019 09:13 AM - naruse (Yui NARUSE)

- Description updated

#17 - 12/09/2019 11:17 AM - naruse (Yui NARUSE)

- Status changed from Rejected to Open

#18 - 12/09/2019 11:23 AM - naruse (Yui NARUSE)

- Status changed from Open to Closed

Applied in changeset git|54072e329cab7207fba133caba4fc12b45add8f9.

Add ipaddr optional parameter to Net::HTTP#start

to replace the address for TCP/IP connection [Feature $\underline{\#5180}$]

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closes [Feature #15215]

closes https://github.com/ruby/ruby/pull/1893 closes https://github.com/ruby/ruby/pull/1977

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