

Ruby trunk - Bug #7100

WEBrick::HTTPServer.new BindAddress

10/02/2012 05:21 PM - sho-h (Sho Hashimoto)

Status: Closed	
Priority: Normal	
Assignee: akr (Akira Tanaka)	
Target version: 2.6	
ruby -v: ruby 1.9.3p194 (2012-04-20 revision 35410) [x86_64-linux]	Backport:

Description

```
=begin
[REDACTED]

$ ruby -v -r webrick -e 'WEBrick::HTTPServer.new(Port: 3000)'
ruby 1.9.3p194 (2012-04-20 revision 35410) [x86_64-linux]
[2012-09-04 19:20:48] INFO WEBrick 1.3.1
[2012-09-04 19:20:48] INFO ruby 1.9.3 (2012-04-20) [x86_64-linux]
[2012-09-04 19:20:48] WARN TCPServer Error: Address already in use - bind(2)

1.8 [REDACTED]1.9.1 [REDACTED]

lib/webrick/utils.rb WEBrick::Utils#create_listeners [REDACTED]

res = Socket::getaddrinfo(address, port,
Socket::AF_UNSPEC, # address family
Socket::SOCK_STREAM, # socket type
0, # protocol
Socket::AI_PASSIVE) # flag
last_error = nil
sockets = []
res.each{|ai|
begin
logger.debug("TCPServer.new(#{ai[3]}, #{port})") if logger
sock = TCPServer.new(ai[3], port)
...

Socket.getaddrinfo [REDACTED]1.8.7 [REDACTED] 0.0.0.0 [REDACTED]

$ ruby -v -r pp -r socket -e 'pp Socket::getaddrinfo(nil, 3000, Socket::AF_UNSPEC, Socket::SOCK_STREAM, 0,
Socket::AI_PASSIVE)'
ruby 1.9.3p194 (2012-04-20 revision 35410) [x86_64-linux]
[["AF_INET", 3000, "0.0.0.0", "0.0.0.0", 2, 1, 6],
["AF_INET6", 3000, ":::", ":::", 10, 1, 6]]

WEBrick::Utils#create_listeners [REDACTED]config[:BindAddress] [REDACTED] 0.0.0.0 [REDACTED] ::
[REDACTED]
=end
```

Associated revisions

Revision b1f493dc - 03/02/2013 08:36 AM - akr (Akira Tanaka)

- lib/webrick/utils.rb: use Socket.tcp_server_sockets to create server sockets. fix [Bug #7100] <https://bugs.ruby-lang.org/issues/7100> reported by sho-h (Sho Hashimoto).

git-svn-id: svn+ssh://ci.ruby-lang.org/ruby/trunk@39551 b2dd03c8-39d4-4d8f-98ff-823fe69b080e

Revision 39551 - 03/02/2013 08:36 AM - akr (Akira Tanaka)

- lib/webrick/utils.rb: use Socket.tcp_server_sockets to create server sockets. fix [Bug #7100] <https://bugs.ruby-lang.org/issues/7100> reported by sho-h (Sho Hashimoto).

Revision 39551 - 03/02/2013 08:36 AM - akr (Akira Tanaka)

- lib/webrick/utils.rb: use Socket.tcp_server_sockets to create server sockets. fix [Bug #7100] <https://bugs.ruby-lang.org/issues/7100> reported by sho-h (Sho Hashimoto).

Revision 39551 - 03/02/2013 08:36 AM - akr (Akira Tanaka)

- lib/webrick/utils.rb: use Socket.tcp_server_sockets to create server sockets. fix [Bug #7100] <https://bugs.ruby-lang.org/issues/7100> reported by sho-h (Sho Hashimoto).

Revision 39551 - 03/02/2013 08:36 AM - akr (Akira Tanaka)

- lib/webrick/utils.rb: use Socket.tcp_server_sockets to create server sockets. fix [Bug #7100] <https://bugs.ruby-lang.org/issues/7100> reported by sho-h (Sho Hashimoto).

Revision 39551 - 03/02/2013 08:36 AM - akr (Akira Tanaka)

- lib/webrick/utils.rb: use Socket.tcp_server_sockets to create server sockets. fix [Bug #7100] <https://bugs.ruby-lang.org/issues/7100> reported by sho-h (Sho Hashimoto).

Revision 39551 - 03/02/2013 08:36 AM - akr (Akira Tanaka)

- lib/webrick/utils.rb: use Socket.tcp_server_sockets to create server sockets. fix [Bug #7100] <https://bugs.ruby-lang.org/issues/7100> reported by sho-h (Sho Hashimoto).

History

#1 - 10/13/2012 12:07 AM - ChultOch5 (Sho Morita)

```
=begin
require 'webrick'
WEBrick::HTTP::Response.new(200, "http://localhost:3000/").send
end

WEBrick::HTTP::Response.new(200, "http://localhost:3000/").send

nil "0.0.0.0", "::" listen

nil

  • nil IPv4 IPv6 listen
  • "0.0.0.0" IPv4 listen
  • "::" IPv6 listen (nil IPv4 IPv6 listen)

Linux) IPv6 :: bind IPv6 IPv4 bind 0.0.0.0 ::
bind Address already in use(EADDRINUSE) IPv6

  • http://www.a-k-r.org/pub/socket-rubykaigi2009.pdf
  • http://codezine.jp/article/detail/5395
  • NEWS-1.9.2

Ruby 1.9.2 Socket IPv6 Socket#ipv6only! IPV6_V6ONLY
0.0.0.0 :: bind

WEBrick TCPServer API IPV6_V6ONLY API Socket.tcp_server_sockets
Socket#ipv6only!

TCPServer.new Socket.tcp_server_sockets TCPServer.new Socket.tcp_server_sockets
WEBrick

TCPServer

  • :BindAddress == nil :: bind 0.0.0.0 bind (EADDRINUSE)

Index: lib/webrick/utils.rb
--- lib/webrick/utils.rb (revision 37168)
```

+++ lib/webrick/utils.rb (working copy)

@@ -79,6 +79,15 @@

Socket::AI_PASSIVE) # flag

last_error = nil

sockets = []

- # If address == nil, Socket.getaddrinfo returns 2 entries, the
- # IPv4 wildcard address "0.0.0.0" and the IPv6 wildcard address "::".
- # On some systems, if you try to bind for both "0.0.0.0" and "::",
- # the later one will fail.
- # To workaround such behaviour, try bind for "::" first, then
- # bind "0.0.0.0" and ignore EADDRINUSE error.
- if address.nil?
- res = res.sort_by{|i| i[4]}.reverse
- end res.each{|ai| begin logger.debug("TCPServer.new(#{ai[3]}, #{port})" if logger @@ -87,7 +96,9 @@
- Utils::set_close_on_exec(sock) sockets << sock rescue => ex
- logger.warn("TCPServer Error: #{ex}") if logger
- logger.warn("TCPServer Error: #{ex}") if logger and !(address.nil? and
- ai[4] == Socket::AF_INET and
- Errno::EADDRINUSE == ex) last_error = ex end }

BindAddress nil

sysctl net.ipv6.bindv6only=1

BindAddress nil

=end

#2 - 11/05/2012 09:37 PM - mame (Yusuke Endoh)

- Status changed from Open to Assigned

- Assignee set to akr (Akira Tanaka)

- Target version set to 2.0.0

akr

--

Yusuke Endoh mame@tsg.ne.jp

#3 - 11/06/2012 06:53 PM - akr (Akira Tanaka)

2012/11/5 mame (Yusuke Endoh) mame@tsg.ne.jp:

akr

IPv4-mapped IPv6 address

TCPServer

Socket

Socket.tcp_server_sockets

TCPServer.for_fd TCPServer

TCPServer

--

[Tanaka Akira]

#4 - 11/07/2012 07:19 PM - akr (Akira Tanaka)

- File webrick-dont-use-ipv4-mapped-ipv6-address.patch added

webrick-dont-use-ipv4-mapped-ipv6-address.patch

#5 - 02/18/2013 11:54 PM - mame (Yusuke Endoh)

- Target version changed from 2.0.0 to 2.6

BindAddress workaround

next minor

2.0.0-pXXX ██████████ nagachika ██████████

--

Yusuke Endoh mame@tsg.ne.jp

#6 - 03/02/2013 05:36 PM - akr (Akira Tanaka)

- *Status changed from Assigned to Closed*

- *% Done changed from 0 to 100*

This issue was solved with changeset [r39551](#).

Sho, thank you for reporting this issue.

Your contribution to Ruby is greatly appreciated.

May Ruby be with you.

-
- lib/webrick/utils.rb: use Socket.tcp_server_sockets to create server sockets. fix [Bug [#7100](#)] <https://bugs.ruby-lang.org/issues/7100> reported by sho-h (Sho Hashimoto).

Files

webrick-dont-use-ipv4-mapped-ipv6-address.patch	1.32 KB	11/07/2012	akr (Akira Tanaka)
---	---------	------------	--------------------