Description

The example occurred when trying to use IPv6 to establish communication between HTTP client and server.

I first created an URI, passed it to Net::HTTP.get, and it blew with the following message:

SocketError: Failed to open TCP connection to [::1]:9292 (getaddrinfo: nodename nor servname provided, or not known)

It seems to me that the URI and the Socket classes don't play well with its expected representation of an IPv6 address:

```
URI::HTTP.build(host: "[::1]").host #=> "[::1]"
URI::HTTP.build(host: "::1").host #=> "[::1]"
TCPSocket.new("::1", 9292) #=> #<TCPSocket fd:15>
TCPSocket.new("[::1]", 9292) #=> #<TCPSocket fd:15>
```

History

#1 - 10/14/2017 11:08 PM - chucke (Tiago Cardoso)

I got the last one wrong:

```
TCPSocket.new("[::1]", 9292) #=> getaddrinfo: nodename nor servname provided, or not known)
```

if someone be so kind as to edit/replace the original description, I'd be very thankful.

#2 - 10/14/2017 11:15 PM - chucke (Tiago Cardoso)

Another notable inconsistency (when compared with the second example above):

```
uri.host = "::1" #=> URI::InvalidComponentError: bad component(expected host component): ::1
```

#3 - 10/14/2017 11:28 PM - chucke (Tiago Cardoso)

And more inconsistencies when trying to patch Net::HTTP's usage:

```
# forcing here "::1" so that I can open the socket
irb(main):015:0> conn = Net::HTTP.new("::1", 9292)
```

Notable mentions here are the request status line (host leaked into path) and the Host header (should have been Host: [::1]:9292).

Here's the same request performed with curl:
curl http://[::1]:9292 -v
* Rebuilt URL to: http://[::1]:9292/
* Trying ::1...
* TCP_NODELAY set
* Connected to ::1 (::1) port 9292 (#0)
> GET / HTTP/1.1
> Host: ::1:9292
> User-Agent: curl/7.50.3
> Accept: */*
>
< HTTP/1.1 200 OK
< Content-Length: 19
<
* Curl_http_done: called premature == 0
* Connection #0 to host ::1 left intact

echoing it all out!

#4 - 10/15/2017 04:46 AM - shevegen (Robert A. Heiler)

if someone be so kind as to edit/replace the original description, I'd be very thankful.

I think there may be a few who could modify it (not me); at the least the title can be changed, but possibly also the body of the message. For some reason, the original poster can not change the first message, but can modify later replies. Perhaps it is to preserve the original suggestion, but ideally I think people could have a window of modification even for the first comment in a thread; e. g. something like 1-2 hours, to correct any typos or so. Not sure how easy this is to change via this bugtracker though.

#5 - 11/29/2017 09:35 AM - akr (Akira Tanaka)
- Status changed from Open to Rejected

Use URI::HTTP.hostname which unwraps the bracket.

```
u = URI("http://[::1]/bar")
p u.hostname #=> "::1"
p u.host #=> "[::1]"
```