

Ruby - Bug #17835

Net::HTTP should automatically add Accept-Encoding request header on HEAD request as well

04/27/2021 09:03 PM - jrsyo (Shohei Maeda)

Status:	Closed	Backport: 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: REQUIRED
Priority:	Normal	
Assignee:	naruse (Yui NARUSE)	
Target version:		
ruby -v:		
Description		
<p>Currently, Net::HTTP adds the Accept-Encoding request header by default except for HEAD method.</p> <p>https://github.com/ruby/ruby/blob/v3_0_1/lib/net/http.rb#L1489-L1493</p> <p>https://github.com/ruby/ruby/blob/v3_0_1/lib/net/http/generic_request.rb#L34-L44</p> <p>While this unlikely to cause any real-world problems, this isn't an ideal implementation according to the RFC below:</p> <p>https://tools.ietf.org/html/rfc7230#section-3.3.2</p> <p>A server MAY send a Content-Length header field in a response to a HEAD request (Section 4.3.2 of [RFC7231]); a server MUST NOT send Content-Length in such a response unless its field-value equals the decimal number of octets that would have been sent in the payload body of a response if the same request had used the GET method.</p> <p>Since server MAY (can) send the Content-Length header in response to a HEAD request, the client would see a Content-Length value of an uncompressed response if we don't send the Accept-Encoding request header.</p> <pre>\$ curl -svo /dev/null 'https://www.ruby-lang.org/en/' -I --compressed 2>&1 grep -i content-length h < content-length: 3380</pre> <pre>\$ curl -svo /dev/null 'https://www.ruby-lang.org/en/' -I 2>&1 grep -i content-length < content-length: 10932</pre> <p>Say, if the purpose of sending HEAD is to know the content-length beforehand (as an example) doesn't it make sense to also add the Accept-Encoding request header on HEAD requests as well? In fact, users almost certainly request compressed objects in the subsequent requests (e.g., GET) because of the auto-addition logic above anyway.</p> <p>https://github.com/smaeda-ks/ruby/commit/020469cfc5f910a22e9bbb24ba18ba4e147ff19</p> <p>Thanks, Shohei</p>		

History

#1 - 04/27/2021 09:05 PM - jrsyo (Shohei Maeda)

- Tracker changed from Feature to Bug

- Backport set to 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: UNKNOWN

#2 - 06/06/2021 09:56 AM - jrsyo (Shohei Maeda)

Opened: <https://github.com/ruby/net-http/pull/26>

#3 - 11/24/2021 05:10 AM - hsbt (Hiroshi SHIBATA)

- Status changed from Open to Assigned

- Assignee set to naruse (Yui NARUSE)

<https://github.com/ruby/net-http/pull/26> was merged for Ruby 3.1.

But I'm not sure that we should backport this to Ruby 3.0 or old versions.

#4 - 03/30/2022 10:35 PM - jeremyevans0 (Jeremy Evans)

- *Status changed from Assigned to Closed*

- *Backport changed from 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: UNKNOWN to 2.6: UNKNOWN, 2.7: UNKNOWN, 3.0: REQUIRED*