

### 3. Retrieving Long Documents

Answer the following questions:

12. How many HTTP GET request messages did your browser send? Which packet number in the trace contains the GET message for the Bill or Rights?
13. Which packet number in the trace contains the status code and phrase associated with the response to the HTTP GET request?
14. What is the status code and phrase in the response?
15. How many data-containing TCP segments were needed to carry the single HTTP response and the text of the Bill of Rights?

#### 12. Answers:

- **My browser send 1 HTTP GET request messages**
- **packet number in the trace contains the GET message for the Bill or Right is 273**

No.	Time	Source	Destination	Protocol	Length	Info
273	13:38:02.317784	222.16.62.151	128.119.245.12	HTTP	568	GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1
294	13:38:02.597422	128.119.245.12	222.16.62.151	HTTP	534	HTTP/1.1 200 OK (text/html)

13. **Answer: packet 294 contains the status code and phrase associated with the response to the HTTP GET request**

#### 14. Answer: look the picture

No.	Time	Source	Destination	Protocol	Length	Info
273	13:38:02.317784	222.16.62.151	128.119.245.12	HTTP	568	GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1
294	13:38:02.597422	128.119.245.12	222.16.62.151	HTTP	534	HTTP/1.1 200 OK (text/html)

  

> Frame 294: 534 bytes on wire (4272 bits), 534 bytes captured (4272 bits) on interface \Device\NPF_{F4F6F9D4-FAEC-4D22-ACE7-746265CB46EA}, id 0
> Ethernet II, Src: Hangzhou_49:1d:00 (0c:da:41:49:1d:00), Dst: LCFChFe_54:b0:06 (54:e1:ad:54:b0:06)
> Internet Protocol Version 4, Src: 128.119.245.12, Dst: 222.16.62.151
> Transmission Control Protocol, Src Port: 80, Dst Port: 8802, Seq: 4381, Ack: 515, Len: 480
> [4 Reassembled TCP Segments (4860 bytes): #291(1460), #292(1460), #293(1460), #294(480)]
▼ Hypertext Transfer Protocol
▼ HTTP/1.1 200 OK\r\n
> [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
Response Version: HTTP/1.1
Status Code: 200
[Status Code Description: OK]
Response Phrase: OK
Date: Sun, 16 Aug 2020 05:38:01 GMT\r\n
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.9 mod_perl/2.0.11 Perl/v5.16.3\r\n
Last-Modified: Sun, 16 Aug 2020 05:37:03 GMT\r\n
ETag: "1194-Sacf80b38f34a"\r\n
Accept-Ranges: bytes\r\n
Content-Length: 4500\r\n
Keep-Alive: timeout=5, max=100\r\n
Connection: Keep-Alive\r\n
Content-Type: text/html; charset=UTF-8\r\n
\r\n
[HTTP response 1/1]
[Time since request: 0.279638000 seconds]
[Request in frame: 273]
[Request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file3.html]
File Data: 4500 bytes
> Line-based text data: text/html (98 lines)

15. **Answer: 4 Reassembled TCP Segments were needed to carry the single HTTP response and the text of the Bill of Rights**

No.	Time	Source	Destination	Protocol	Length	Info
273	13:38:02.317784	222.16.62.151	128.119.245.12	HTTP	568	GET /wireshark-labs/HTTP-wireshark-file3.html HTTP/1.1
294	13:38:02.597422	128.119.245.12	222.16.62.151	HTTP	534	HTTP/1.1 200 OK (text/html)

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> Frame 294: 534 bytes on wire (4272 bits), 534 bytes captured (4272 bits) on interface \Device\NPF_{F4F6F9D4-FAEC-4D22-ACE7-746265C846EA}, id 0
> Ethernet II, Src: Hangzhou_49:1d:00 (0c:da:41:49:1d:00), Dst: LCfCHeFe_54:b0:06 (54:e1:ad:54:b0:06)
> Internet Protocol Version 4, Src: 128.119.245.12, Dst: 222.16.62.151
> Transmission Control Protocol, Src Port: 80, Dst Port: 8802, Seq: 4381, Ack: 515, Len: 480
√ [4 Reassembled TCP Segments (4860 bytes): #291(1460), #292(1460), #293(1460), #294(480)]
  [Frame: 291, payload: 0-1459 (1460 bytes)]
  [Frame: 292, payload: 1460-2919 (1460 bytes)]
  [Frame: 293, payload: 2920-4379 (1460 bytes)]
  [Frame: 294, payload: 4380-4859 (480 bytes)]
  [Segment count: 4]
  [Reassembled TCP length: 4860]
  [Reassembled TCP Data: 48545502f312e3120323030204f4b0d0a46174653a2053...]
> Hypertext Transfer Protocol
> Line-based text data: text/html (98 lines)

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