

1. List 3 different protocols that appear in the protocol column in the unfiltered packet-listing window in step 7 above.

HTTP

SSL

TCP

QUIC

2. How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received? (By default, the value of the Time column in the packet-listing window is the amount of time, in seconds, since Wireshark tracing began. To display the Time field in time-of-day format, select the Wireshark View pull down menu, then select Time *Display Format*, then select *Time-of-day*.)

GET 273 11:55:27.030437

OK 280 11:55:27.107289

*Difference: .076852 Seconds*

3. What is the Internet address of the gaia.cs.umass.edu (also known as www-net.cs.umass.edu)? What is the Internet address of your computer?

gaia.cs.umass.edu IPv4 128.95.66.172

Destination/My Computer 128.119.245.12

4. Screenshot the two HTTP messages (GET and OK) referred to in question 2 above. Make sure to include all pertinent information in the screenshot (Time field, Internet addresses, etc). Paste these screenshots into your lab report.

GET REQUEST:

273	11:55:27.030437	128.95.66.172	128.119.245.12	HTTP	471 GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
280	11:55:27.107289	128.119.245.12	128.95.66.172	HTTP	494 HTTP/1.1 200 OK (text/html)
330	11:55:28.121809	128.95.66.172	128.119.245.12	HTTP	417 GET /favicon.ico HTTP/1.1

  

> Frame 273: 471 bytes on wire (3768 bits), 471 bytes captured (3768 bits) on interface 0  
 > Ethernet II, Src: IntelCor\_84:1b:2e (60:57:18:84:1b:2e), Dst: IETF-VRRP-VRID\_43 (00:00:5e:00:01:43)  
 > Internet Protocol Version 4, Src: 128.95.66.172, Dst: 128.119.245.12  
 > Transmission Control Protocol, Src Port: 62270, Dst Port: 80, Seq: 1, Ack: 1, Len: 417  
 ▾ Hypertext Transfer Protocol  
   ▾ GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n
     ▾ [Expert Info (Chat/Sequence): GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n]
       [GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n]
       [Severity level: Chat]
       [Group: Sequence]
       Request Method: GET
       Request URI: /wireshark-labs/INTRO-wireshark-file1.html
       Request Version: HTTP/1.1
       Host: gaia.cs.umass.edu\r\n
       Connection: keep-alive\r\n
       Upgrade-Insecure-Requests: 1\r\n
       User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.143 Safari/537.36\r\n
       Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,\*/\*;q=0.8\r\n
       Accept-Encoding: gzip, deflate, sdch\r\n
       Accept-Language: en-US,en;q=0.8\r\n
       \r\n
       [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html]
       [HTTP request 1/2]
       [Response in frame: 280]
       [Next request in frame: 330]

## OK RESPONSE:

http					
No.	Time	Source	Destination	Protocol	Leng Info
→	273 11:55:27.030437	128.95.66.172	128.119.245.12	HTTP	471 GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
←	280 11:55:27.107289	128.119.245.12	128.95.66.172	HTTP	494 HTTP/1.1 200 OK (text/html)
→	330 11:55:28.121809	128.95.66.172	128.119.245.12	HTTP	417 GET /favicon.ico HTTP/1.1
Ethernet II, Src: JuniperN_ef:ef:f0 (88:e0:f3:ef:ef:f0), Dst: IntelCor_84:1b:2e (60:57:18:84:1b:2e)					
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 128.95.66.172					
Transmission Control Protocol, Src Port: 80, Dst Port: 62270, Seq: 1, Ack: 418, Len: 440					
Hypertext Transfer Protocol					
HTTP/1.1 200 OK\r\n					
[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]					
[HTTP/1.1 200 OK\r\n]					
[Severity level: chat]					
[Group: Sequence]					
Request Version: HTTP/1.1					
Status Code: 200					
Response Phrase: OK					
Date: Tue, 04 Oct 2016 18:55:24 GMT\r\n					
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.1e-fips PHP/5.4.16 mod_perl/2.0.9dev Perl/v5.16.3\r\n					
Last-Modified: Tue, 04 Oct 2016 05:59:01 GMT\r\n					
ETag: "51-53e03c1dd1019"\r\n					
Accept-Ranges: bytes\r\n					
Content-Length: 81\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 1/2]					
[Time since request: 0.076852000 seconds]					
<a href="#">[Request in frame: 273]</a>					
<a href="#">[Next request in frame: 330]</a>					
<a href="#">[Next response in frame: 331]</a>					
File Data: 81 bytes					
Line-based text data: text/html					
<html>\n					
Congratulations! You've downloaded the first Wireshark lab file!\n					
Frame (frame), 494 bytes					
					Packets: 447 · Display