

# CSC358 Wireshark Assignment 1 Solution

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

**Solution:**

**TCP, UDP, HTTP, DNS, ARP, IMAP, TLSV1.2, .....**  
**(Any 3 possible protocols will be accepted.)**

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.)

**Solution:**

35.927652000	142.150.238.30	128.119.245.12	HTTP	515 GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
35.956699000	128.119.245.12	142.150.238.30	HTTP	506 HTTP/1.1 200 OK (text/html)

**According to the screenshot, the time interval between the HTTP GET message and HTTP OK message is**

**35.956699000s - 35.927652000s = 0.029049s**

**(The time interval in the range of 0.015 ~ 0.040 will be accepted.)**

3. What is the Internet address of the gaia.cs.umass.edu? What is the Internet address of your computer?

**Solution:**

**gaia.cs.umass.edu: 128.119.245.12**

**my computer: xxx.xxx.xxx.xxx**

4. Print the two HTTP messages (GET and OK) referred to in question 2 above. To do so, select Print from the Wireshark File command menu, and select the “Selected Packet Only” and “Print as displayed” radial buttons, and then click OK.

**Solution:**

**The screenshot of HTTP GET message:**

No.	Time	Source	Destination	Protocol	Length	Info
323	35.927652000	142.150.238.30	128.119.245.12	HTTP	515	GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1

Frame 323: 515 bytes on wire (4120 bits), 515 bytes captured (4120 bits) on interface 0  
Ethernet II, Src: Apple\_33:ff:75 (c4:2c:03:33:ff:75), Dst: Cisco\_80:bc:c0 (00:1e:13:80:bc:c0)  
Internet Protocol Version 4, Src: 142.150.238.30 (142.150.238.30), Dst: 128.119.245.12 (128.119.245.12)  
Transmission Control Protocol, Src Port: 49571 (49571), Dst Port: 80 (80), Seq: 1, Ack: 1, Len: 449  
Hypertext Transfer Protocol

## The screenshot of HTTP OK message:

No.	Time	Source	Destination	Protocol	Length	Info
325	35.956699000	128.119.245.12	142.150.238.30	HTTP	506	HTTP/1.1 200 OK (text/html)

Frame 325: 506 bytes on wire (4048 bits), 506 bytes captured (4048 bits) on interface 0  
Ethernet II, Src: Cisco\_80:bc:c0 (00:1e:13:80:bc:c0), Dst: Apple\_33:ff:75 (c4:2c:03:33:ff:75)  
Internet Protocol Version 4, Src: 128.119.245.12 (128.119.245.12), Dst: 142.150.238.30 (142.150.238.30)  
Transmission Control Protocol, Src Port: 80 (80), Dst Port: 49571 (49571), Seq: 1, Ack: 450, Len: 440  
Hypertext Transfer Protocol  
Line-based text data: text/html