

Lab Report

Computer Networks Lab

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1 Wireshark Lab: HTTP

1.1 Question 1

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

- TCP
- TLSv1.2
- ARP

protocols_example.png

Figure 1: Showing 3 Different Protocols

1.2 Question 2

How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received?

Solution: 408.154 milliseconds. (Figure 3)

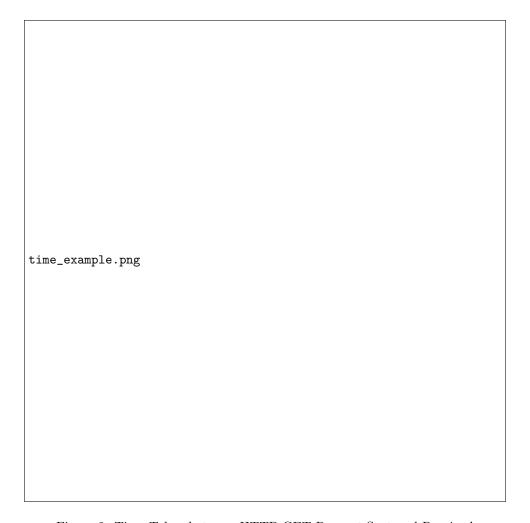


Figure 2: Time Taken between HTTP GET Request Sent and Received

2 Wireshark Lab: HTTP

2.1 The Basic HTTP GET/Response interaction

Question 1

Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running? **Solution:**

Both my browser and the server are using HTTP version 1.1

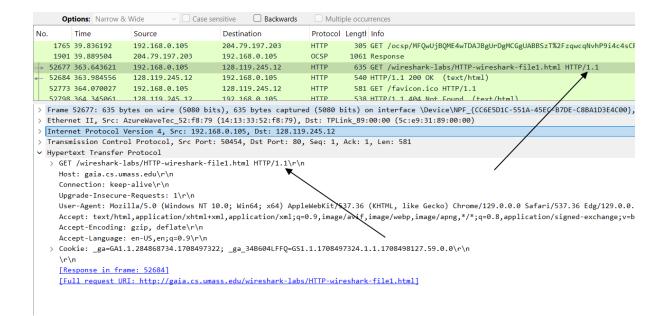


Figure 3: Time Taken between HTTP GET Request Sent and Received

2.1.1 Question **2**

What languages (if any) does your browser indicate it can accept? **Solution:** British English (en-GB), US English (en-US), general English (en), and Bengali (bn).

3 Wireshark Lab: DNS

3.1 nslookup

3.1.1 Question 1

Run nslookup to obtain the IP address of a Web server in Asia. What is the IP address of that server? **Solution:** The IP address of www.prothomalo.com is 104.17.145.114 and 104.17.144.114.

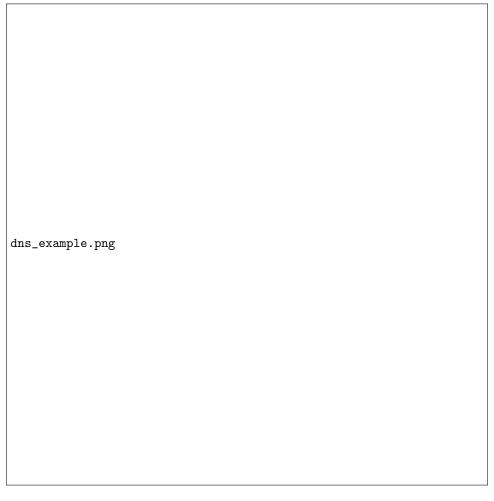


Figure 4: Finding IP Address Using nslookup