ELEC-5220

Info. Networks

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DUE DATE: 9/9/21

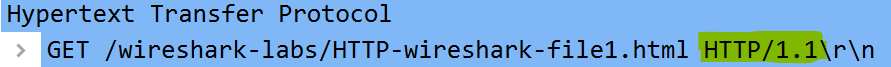
Lab 2

# **Introduction**

This Lab was a continuation to *Lab 1*. We leaned a little more about Wireshark and how to find packet numbers and status codes along with other things.

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

Based on the info shown in WireShark showin in *Figure 1* below, my browser is running HTTP version 1.1.

****

*Figure 1*

**2. What languages (if any) does your browser indicate that it can accept to the server?**

When checking, wireshark shows that our browser accepts the following languages: en-US, en;q=0.9\r\n. This is shown in *Figure 2* below.



*Figure 2*

**3. What is the IP address of your computer? Of the gaia.cs.umass.edu server?**

When checking wireshark for the IP of the website and our PC, we get 192.188.1.11 for the website IP and 128.119.245.12 for our PC IP address as seen below in *Figure 3.*

A picture containing rectangle

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*Figure 3*

**4. What is the status code returned from the server to your browser?**

The status code returned is 200 after checking wireshark and is shown in *Figure 4.*



*Figure 4*

**5. How many bytes of content are being returned to your browser?**

When checking WireShark, it seems the number of bytes retrieved is 128 bytes. This is shown in *Figure 5* below.

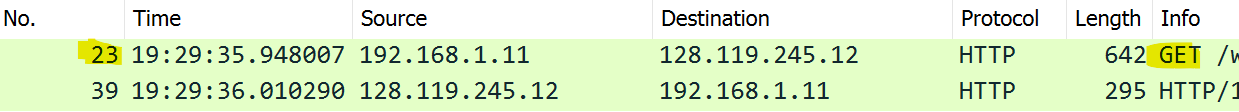
A picture containing graphical user interface

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*Figure 5*

**6. 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?**

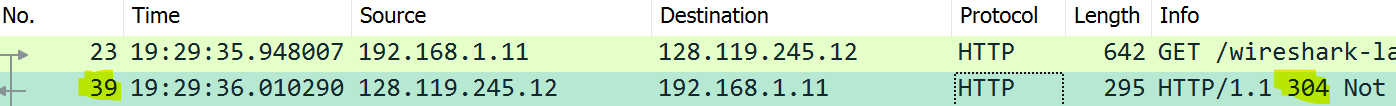
When checking WireShark, I only had one GET request. The packet number for the GET request seems to be 23, as seen below in *Figure 6.*



*Figure 6*

**7. Which packet number in the trace contains the status code and phrase associated with the response to the HTTP GET request?**

Packet number 39 contains the status code and phrase associated with the response to GET request. This is shown in *Figure 7* below.



*Figure 7*

**8. What is the status code and phrase in the response?**

The status code is 304 and has the response phrase “Not Modified”. This can be seen in *Figure 8* below.

Graphical user interface, text, application, chat or text message

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*Figure 8*

**9. How many HTTP GET request messages did your browser send? To which Internet addresses were these GET requests sent?**

When looking at wireshark after entering the URL, it seems that we sent 3 GET requests through the browser. The requests where sent to gaia.cs.umass.edu and requested wireshark-labs/HTTP-wireshark-file4.html, pearson.png, and 8E\_cover\_small.jpg. All info gathered from wireshark can be seen in *Figures 8 and 9* below.

Table

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*Figure 8*

*Text

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*Figure 9*

**10. What is the server’s response (status code and phrase) in response to the initial HTTP GET message from your browser?**

The intital status code is 401 and response phrase is “Unauthorized”. This is the code and phrase before singing into the webpage and the WireShark information is shown below in *Figure 10.*

Graphical user interface, text, application

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*Figure 10*

**11. When your browser’s sends the HTTP GET message for the second time, what new field is included in the HTTP GET message?**

The second time we send a GET request after singing in, we get a 200 OK message, meaninging we have singed on and can see the webpage. This is shown below in *Figure 11.*

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*Figure 11*