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**Task 1 - Explore HTTP**

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

Taken from packet-listing window. I do not see IP information in the HTTP portion of the packet-header details window.

PC IP - 192.168.1.2

/gaia.cs.umass.edu/ server - 128.119.245.12

***2. What is the status code and phrase returned from the server to your browser?***

Status Code = 200

Phrase = Ok\r\n

***3. What languages does your browser indicate to the server that it can accept?***

***Which header line is used to indicate this information?***

Acceptable languages = en-US,en;q=0.5

This information is taken from the "Accept-Language" header line.

***4. How many bytes of content (size of file) are returned to your browser? Which***

***header line is used to indicate this information?***

128 bytes.

This information is taken from the "Content-Length" header line.

We know it is bytes because of the "Accept-Ranges" header line.

***5. 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.)***

Crazy fast!

The GET was sent at 08:43:53.211370 and I received the response at 08:43:53.259751.

Time: 00:00:00.48381

**Task 2 - Capture a traceroute**

***Step 3 Commandline Output:***

Microsoft Windows [Version 10.0.19042.1165]

(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>tracert

Usage: tracert [-d] [-h maximum\_hops] [-j host-list] [-w timeout]

[-R] [-S srcaddr] [-4] [-6] target\_name

Options:

-d Do not resolve addresses to hostnames.

-h maximum\_hops Maximum number of hops to search for target.

-j host-list Loose source route along host-list (IPv4-only).

-w timeout Wait timeout milliseconds for each reply.

-R Trace round-trip path (IPv6-only).

-S srcaddr Source address to use (IPv6-only).

-4 Force using IPv4.

-6 Force using IPv6.

C:\WINDOWS\system32>tracert yahoo.com

Tracing route to yahoo.com [74.6.143.26]

over a maximum of 30 hops:

1 <1 ms <1 ms <1 ms www.routerlogin.com [192.168.1.1]

2 13 ms 18 ms 8 ms 96.120.112.121

3 7 ms 9 ms 7 ms 96.110.168.17

4 15 ms 22 ms 14 ms 96.108.120.145

5 22 ms 22 ms 22 ms 24.153.88.85

6 23 ms 27 ms 23 ms 4.68.110.122

7 \* \* \* Request timed out.

8 59 ms 58 ms 59 ms YAHOO-INC.ear2.NewYork1.Level3.net [4.14.4.250]

9 56 ms 55 ms 55 ms et-19-0-0.pat2.bfz.yahoo.com [209.191.64.187]

10 57 ms 58 ms 58 ms et-1-1-1.msr1.bf2.yahoo.com [72.30.223.53]

11 59 ms 58 ms 63 ms et-1-1-0.clr1-a-gdc.bf2.yahoo.com [74.6.122.53]

12 58 ms 57 ms 56 ms lo0.fab6-1-gdc.bf2.yahoo.com [74.6.123.239]

13 55 ms 57 ms 57 ms usw1-1-lbb.bf2.yahoo.com [74.6.98.138]

14 62 ms 59 ms 61 ms media-router-fp74.prod.media.vip.bf1.yahoo.com [74.6.143.26]

Trace complete.

C:\WINDOWS\system32>

***Step 6 Screenshots: (Png files can be found in GitHub Repo alongside other submission files)***



