|  |
| --- |
| **ECE361 – Computer Networks**    **Wireshark Lab 1: HTTP**        First Name: Bahareh Last Name: Farhadi        First Name: Jingfeng Last Name: Chen              **Mark:**   1. *Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running?* |

**Both 1.1**



|  |
| --- |
| 1. *What languages (if any) does your browser indicate that it can accept to the server?* |

**en-US, en**



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

**My pc: 192.168.2.13**

**Server: 128.119.245.12**



|  |
| --- |
| 1. *What is the status code returned from the server to your browser?* |

**Status Code: 200 OK**



|  |
| --- |
| 1. *When was the HTML file that you are retrieving last modified at the server?* |

**Wed, 09 Oct 2019 05:59:01 GMT**



|  |
| --- |
| 1. *How many bytes of content are being returned to your browser?* |

**128 Bytes**



1. *By inspecting the raw data in the packet content window, do you see any headers within the data that are not displayed in the packet-listing window? If so, name one.*

**No**

1. *Inspect the contents of the first HTTP GET request from your browser to the server. Do you see an “IF-MODIFIED-SINCE” line in the HTTP GET?*

**No**

1. *Inspect the contents of the server response. Did the server explicitly return the contents of the file? How can you tell?*

**Yes, after the header, expanding content\_length shows the explicit data in the response message**



1. *Now inspect the contents of the second HTTP GET request from your browser to the server. Do you see an “IF-MODIFIED-SINCE:” line in the HTTP GET? If so, what information follows the “IF-MODIFIED-SINCE:” header?*

**Yes, IF-MODIFIED-SINCE: Wed, 09 Oct, 2019 05:59:01 GMT (which is the day before this lab was done)**



1. *What is the HTTP status code and phrase returned from the server in response to this second HTTP GET? Did the server explicitly return the contents of the file? Explain.*

|  |
| --- |
| **Status Code: 304 Not Modified** |

**No, no explicit content is shown in the second response messageStatus Code: 304 Not Modified**



1. *How many HTTP GET request messages were sent by your browser?* **1**
2. *How many data-containing TCP segments were needed to carry the single HTTP response?*

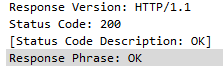
**4 TCPs, Packet Number Associated: 1019**

****

1. *What is the status code and phrase associated with the response to the HTTP GET request?*

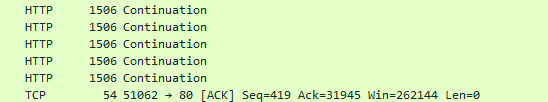
**Status Code: 200**

**Response Phrase: OK**



1. *Are there any HTTP status lines in the transmitted data associated with a TCPinduced “Continuation”?*

**Many**



1. *How many HTTP GET request messages were sent by your browser? To which Internet addresses were these GET requests sent?*

**3 GET messages**

****

1. *Can you tell whether your browser downloaded the two images serially, or whether they were downloaded from the two websites in parallel? Explain.*

**They are in serial, because the time stamp shows that the JPEG file is downloaded after the PNG file**

**(T\_PNG=24.043676 , T\_JPEG=24.442370)**

****

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

**Status Code: 200 OK**

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

***Referrer***

**