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ELEC 5220 - Lab 2

9/9/21

Questions

**All Answers can be seen in Figure 1 for Questions 1-5.**

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

**My browser is running HTTP version 1.1, and the server is also running HTTP version 1.1.**

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

**Accepts language: en-US**

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

**My IP is 192.168.1.100 and the server is 128.119.245.12**

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

**HTTP/1.1 200 OK**

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

**Length of this packet is 432.**

**All Answers can be seen in Figures 2&3 for Questions 6-8.**

1. 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?

**There was only one GET message sent by the browser. It was packet number 45.**

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

**It is packet number 55 shown in figure 3.**

1. What is the status code and phrase in the response?

**HTTP/1.1 200 OK**

**Text

Description automatically generated with low confidence**

**Figure 1**

**Text

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**Figure 2**

**Graphical user interface, text, application, email

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**Figure 3**

**Answer to Question 9 can be found in Figure 4.**

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

**Three GET messages were sent and 2 were sent to the same destination of 128.119.245.12, while one was sent to 178.79.137.164.**

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**Figure 4**

**Answers to Questions 10 and 11 can be found in Figure 5.**

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

**The initial response is: HTTP/1.1 401 Unauthorized.**

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

**The new field is an authorization field. This is done because we had to send the server a username and password, in order to get authorized to receive the page.**

**Graphical user interface, text, application

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**Figure 5**

**Figures 6 and 7 demonstrate using the provided link to decode the Base64 string back into ASCII characters**

**Text

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**Figure 6**

**Text

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**Figure 7**