Excersice number 1

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**Intro assignment**

1. A. HTTP

Graphical user interface, text, table

Description automatically generated with medium confidence

1. B. DNS

Graphical user interface, application

Description automatically generated

1. Graphical user interface, application, table

   Description automatically generatedc. TCP
2. The time that took from when the HTTP GET message was sent until the HTTP OK reply was received was 0.058873 seconds.
3. The IP address of gaia.cs.umass.edu is 82.102.180.168 and my computer address is 192.168.1.34.



1. GET Package

Text

Description automatically generated

Text

Description automatically generated OK Package

**HTTP assignment**

1. They are both running HTTP 1.1
2. My browser accept Hebrew and English
3. My computer: 192.168.1.34

gaia: 128.119.245.12

1. The status code is 200
2. The page last modified in Thu, 10 Mar 2022 06:59:01 GMT
3. 128 bytes
4. I cant find any

Text

Description automatically generated

Text

Description automatically generated with medium confidence



1. I do not see any if modified since line.
2. Text

   Description automatically generatedThe server did return the contents of the file. I can tell by looking at the file data and see the 371 bytes has returned to my browser.

No if-modified-since line

Text

Description automatically generated



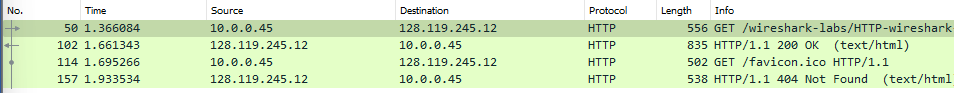
1. I can see if-modified-since line. The information that that follows is the last time the page was modified.



1. The status code is 304 and the phrase is “Not Modified”. The server did not return the contents of the file because there is not header that indicates that as in the first response packet.

Graphical user interface, text, application

Description automatically generated

1. There are two GET requests. The packet number of the GET request for the Bill or Rights is 50.



1. The packet number is 102.
2. The status code is 200 and the phrase is “OK”.

Graphical user interface, text, application, Word

Description automatically generated



1. It took 3 TCP segments to carry the HTTP response.

Table

Description automatically generated



1. The browser sent 3 HTTP GET messages. The first one was sent to to gaia.cs.umass.edu

The second was sent to this host as well. The third request was sent to Kurose.cslash.net.

Graphical user interface, text, application

Description automatically generatedGraphical user interface, text, application

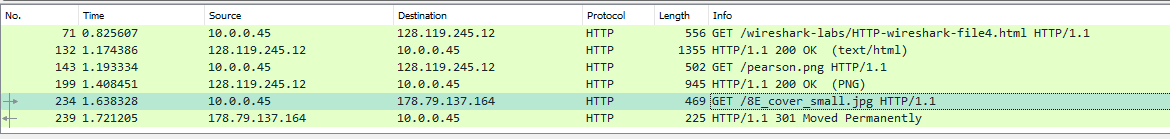
Description automatically generatedText, Word

Description automatically generated



1. I can tell that the browser downloaded each images serially, because each image has it’s own GET request and response.



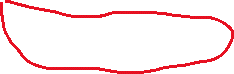




1. The status code is 401 and the phrase is “Unauthorized”.

Graphical user interface, application

Description automatically generated



1. Graphical user interface, text, application

   Description automatically generatedThe new field is “Authorization”, which includes the credentials to access the page.

