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W2 – HTTP

Save the capture files! Mentsd el az adatfájlokat!
Use your own capture file! Használd az általad készített adatfájlt!
Use your browser in incognito mode! Használd a böngésződ inkognitó módban!
Example: Példa:

Write an example for the TCP segment length.
Pckg. nr. 808, Size: 1412 byte

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1. The Basic HTTP GET/response interaction

1. capture filename: w3.pcapng…..……..……

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

   Pckg. nr.: 340…….. Browser: HTTP/1.1
   Pckg. nr.: 342…….. Server: HTTP/1.1

2. -
3. What is the IP address of your computer? Of the gaia.cs.umass.edu server?

   Pckg. nr.: 340……..
   Internet address of your computer: 192.168.1.205……..
   Internet address of the gaia.cs.umass.edu: 128.119.245.12……..

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

   Pckg. nr.: 342…….. Status code: 200……..

5. When was the HTML file that you are retrieving last modified at the server?

   Pckg. nr.: 342……..
   Last-Modified: Fri, 25 Mar 2022 05:59:01 GMT

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

   Pckg. nr.: 342…….. Content-Length: 128……..

7. -

2. The HTTP CONDITIONAL GET/response interaction

2. capture filename: w2_2.pcapng……..……

8. 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?

   Pckg. nr.: 52…….. Answer: NO

9. Inspect the contents of the server response. Did the server explicitly return the contents of the file?

   Pckg. nr.: 54…….. Answer: YES……..

10. 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?

    Pckg. nr.: 500…….. Answer: YES
    If-Modified-Since: Fri, 25 Mar 2022 05:59:01 GMT

11. What is the HTTP status code returned from the server in response to this second HTTP GET? Did the server explicitly return the contents of the file?

    Pckg. nr.: 506…….. Status code: 308……..
    Answer: NO

3. Retrieving Long Documents

3. capture filename: w2_3.pcapng……..……

12. 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?

    Number of request messages: 1……..
    Pckg. nr.: 37……..

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

    Pckg. nr.: 39……..

14. What is the status code in the response?

Pckg. nr.: 39…….. Status code: 200……..

15. How many data-containing TCP segments were needed to carry the single HTTP response and the text of the Bill of Rights?

    Pckg. nr.: 45…….. Nr. of TCP segments: 4……..

4. HTML Documents with Embedded Objects

4. capture filename: w2_4.pcapng……..……

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

    Number of request messages: 3……..
    Package nr. of request messages (e.g. 12,23,33): 754,759,772…..……
    Internet address 1: 128.119.245.12……..
    Internet address 2: 178.79.137.164……..

17. Can you tell whether your browser downloaded the two images serially, or whether they were downloaded from the two web sites in parallel?

    Image 1 response Pckg. nr.: 785……..
    Image 2 response Pckg. nr.: 777……..
    Answer: PARALLEL

5 HTTP Authentication

5. capture filename: w2_5.pcapng……..……

18. What is the server's response (status code) in response to the initial HTTP GET message from your browser?

    Pckg. nr.: 169…….. Status code: 401……..

19. When your browser's sends the HTTP GET message for the **second** time, what is the value of the "Authorization" field in the HTTP GET message?

    Pckg. nr.: 223……..
    Authorization: Basic d2lyZXNoYXJrLXN0dWRlbnRzOm5ldHdvcms=……..