

Wireshark Lab #2 - HTTP

수업코드 12175

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1. Is your browser running HTTP version 1.0, 1.1, or 2? What version of HTTP is the server running?

My browser: HTTP version 1.1

Server: HTTP version 1.1

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

ko-KR,ko;q=0.9,en-US;q=0.8,en;q=0.7

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

My computer IP: 192.168.121.111

gaia.cs.umass.edu server: 128.119.245.12

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

200 OK

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

Sat, 04 Nov 2023 05:59:02 GMT

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

128bytes

7. 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.

표시되지 않는 데이터는 없다.

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?

IF-MODIFIED-SINCE이 없다.

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

Line-based text data에서 content를 확인할 수 있다.

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?

IF-MODIFIED-SINCE line을 확인할 수 있다.

If-Modified-Since: Sat, 04 Nov 2023 05:59:02 GMT으로 이는 해당 리소스를 마지막으로 수정한 시간이다.

11. 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.

HTTP/1.1 304 Not Modified

리소스가 바뀌지 않았기 때문에 서버는 content를 반환하지 않았다.

12. How many HTTP GET request messages did your browser send? Which packet number in the trace contains the GET message for the Bill of Rights?

1개, 43번

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

48번

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

HTTP/1.1 200 OK

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

3번의 TCP segment가 수행된다.

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

3개의 HTTP GET request를 보냈다.

128.119.245.12

128.119.245.12

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? Explain.

이미지를 순차적으로 다운로드한다. pearson.png 요청은 58번 패킷, response가 65번 패킷으로 도착하고, 그 이후 69번 패킷에서 8E_cover_small.jpg를 요청하기 때문이다.