We’ll explore several aspects of the HTTP protocol: the basic GET/response interaction, HTTP message formats, retrieving large HTML files, retrieving HTML files with embedded objects, and HTTP authentication and security.

**Tasks**

**The Basic HTTP GET/response interaction**

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

The browser is running 1.1 HTTP version

A screenshot of a computer

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



En, Russian

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



My Computer: 192.168.0.101

Destination 128.119.245.12

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



“200”

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



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



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.

No I can not see then

**The HTTP CONDITIONAL GET/response interaction**

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?



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

Et billede, der indeholder tekst, skærmbillede, Font/skrifttype

AI-genereret indhold kan være ukorrekt.

It shows the content that the HTML file has

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 GET6? If so, what information follows the “IF-MODIFIED-SINCE:” header?

Its not there

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.

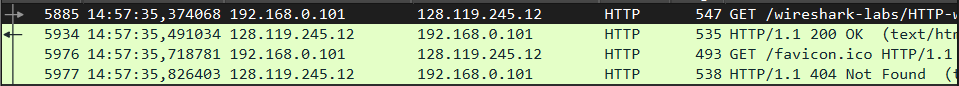
A close up of words

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The first HTTP status code is 200. The response phrase is OK. The second HTTP Get, returns the 3004 status code with phrase not modified

**Retrieving Long Documents**

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?



It send 2 HTTP GET Request messages.

The Packet that contained the GET message was packet number 5885.

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

Packet 5934



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

5934 has the status code 200, with a response OK

A screen shot of a computer program

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

4 Reassembled TCP Segments (4861 bytes)

A screenshot of a computer screen

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**HTML Documents with Embedded Objects**

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

My browser send 3 GET messages.

A screenshot of a computer screen

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Package 139, was sent to 128.119.245.12

Package 180, was sent to 128.119.245.12

Package 189, was sent to 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

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The images were downloaded serially. First the person.png was downloaded, then it was the 8E\_cover\_small.png that was downloaded

**HTTP Authentication**

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





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

**A screenshot of a computer program

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A field called Authorization : basic