Διαχείριση Δικτύων Βασισμένων στο Λογισμικό 2° εργαστήριο: "HTTP-DNS"

ΟΝΟΜΑΤΕΠΩΝΥΜΟ:	Μαυρόπουλος Νικόλας
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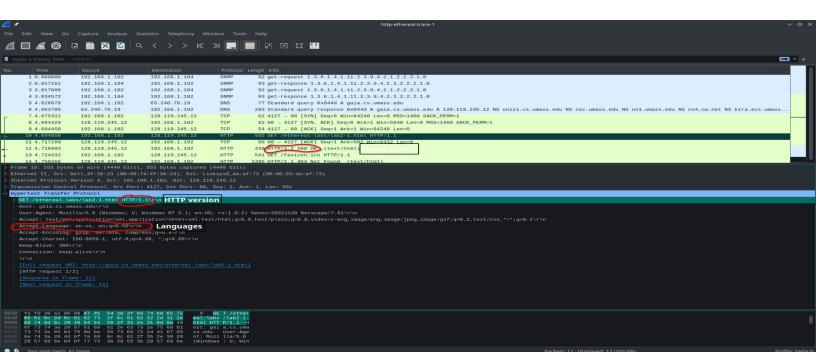
HTTP lab

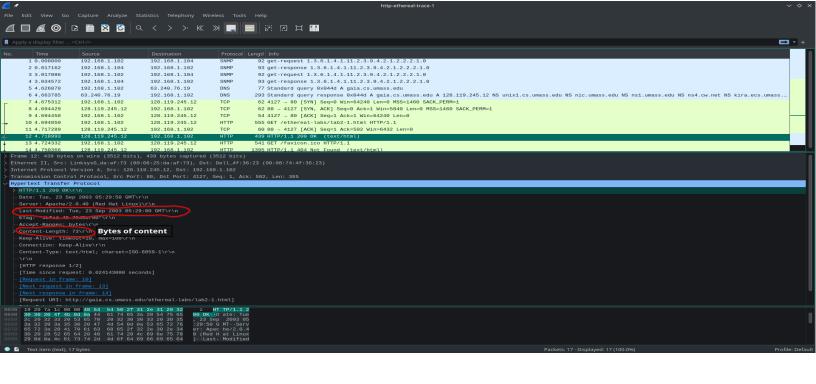
Q1-Q6: Please add one screenshot marking the answers to all questions below (e.g. circle the answers in the screenshot).

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

Browser HTTP version 1.1. Server HTTP version 1.1

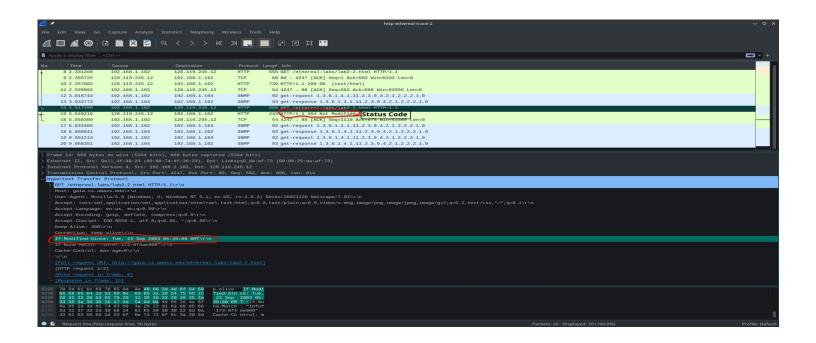
- What languages (if any) does your browser indicate that it can accept to the server?
 En-us, en
- What is the status code returned from the server to your browser? 200 OK
- When was the HTML file that you are retrieving last modified at the server? Tuesday 23 September 2003 05:29:00 GMT
- How many bytes of content are being returned to your browser?
 73 bytes





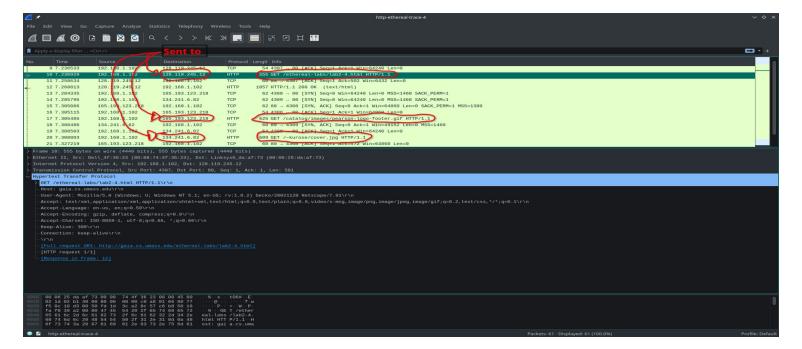
Q9-Q10: Please add a screenshot to justify answers to questions below:

- 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: Tue, 23 Sep 2003 05:35:00 GMT
- 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.
 - 304 Not Modified. So the text of the file is NOT returned in the HTTP message.



Q15-Q16: Please briefly respond the questions:

- How many HTTP GET request messages did your browser send? To which Internet addresses were these GET requests sent?
 It sent 3 HTTP GET. Each of these three GET messages were sent to different IP addresses. Packet line 10 sent to: 128.119.245.12, Packet line 17 sent to:165.193.123.218, Packet line 20 sent to: 134.241.6.82
- Can you tell whether your browser downloaded the two images serially, or whether they were downloaded from the two web sites in parallel? Explain. They were downloaded in parallel. The two images are in packets line 17 and 20.



DNS lab

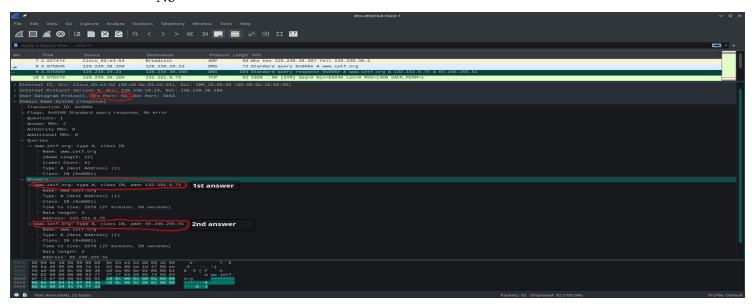
Q4-Q9: Please respond to the following questions and add respective screenshot(s):

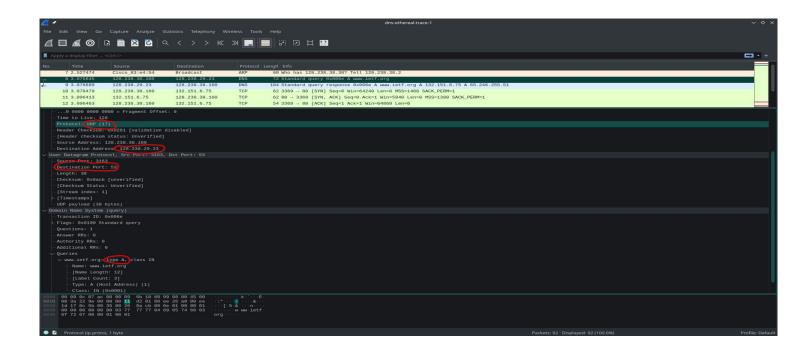
- Locate the DNS query and response messages. Are they sent over UDP or TCP?
 UDP
- What is the destination port for the DNS query message? What is the source port of DNS response message? Destination post is 53
 Source port is 53
- To what IP address is the DNS query message sent? Use ipconfig to determine the IP address of your local DNS server. Are these two IP addresses the same? 128.238.29.23

- Examine the DNS query message. What "Type" of DNS query is it? Does the query message contain any "answers"?

 Type A. It doesn't contain any answers.
- Examine the DNS response message. How many "answers" are provided? What do each of these answers contain?
 2 answers provided. They each contain name of host, type of address, class, the TTL, data length and the IP address.
- Consider the subsequent TCP SYN packet sent by your host. Does the destination IP address of the SYN packet correspond to any of the IP addresses provided in the DNS response message?

 The first SYN packet was sent to 132.151.6.75 which corresponds to the first IP address provided in the DNS response message.
- This web page contains images. Before retrieving each image, does your host issue new DNS queries?
 No





Q19-Q21: Please respond to the following questions and add respective screenshot(s):

- To what IP address is the DNS query message sent? Is this the IP address of your default local DNS server? If not, what does the IP address correspond to? 18.72.0.3
- Examine the DNS query message. What "Type" of DNS query is it? Does the query message contain any "answers"?

Type A, doesn't contain any answers

• Examine the DNS response message. How many "answers" are provided? What does each of these answers contain?

1 answer provided. It contains name of host, type of address, class, the TTL, data length and IP address.

