Sohag University
Faculty of Engineering

LAB 3

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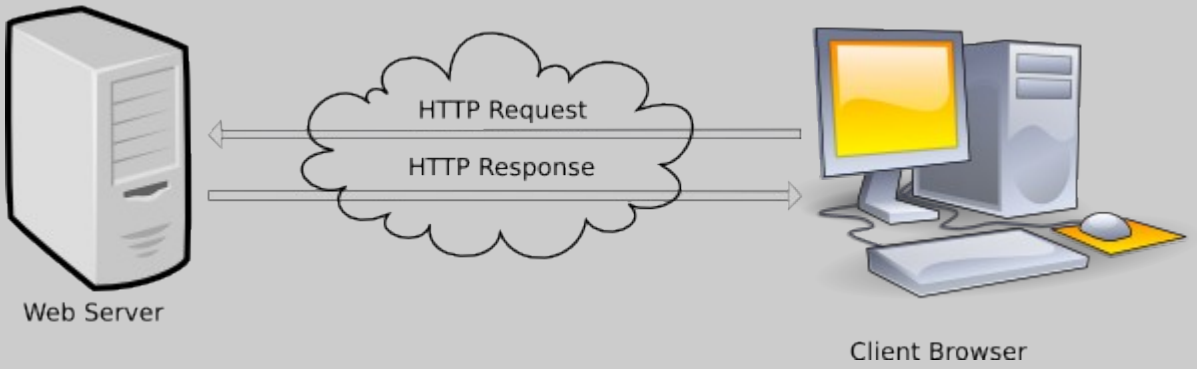
Objectives:

→ Investigate HTTP protocol

HTTP Protocol

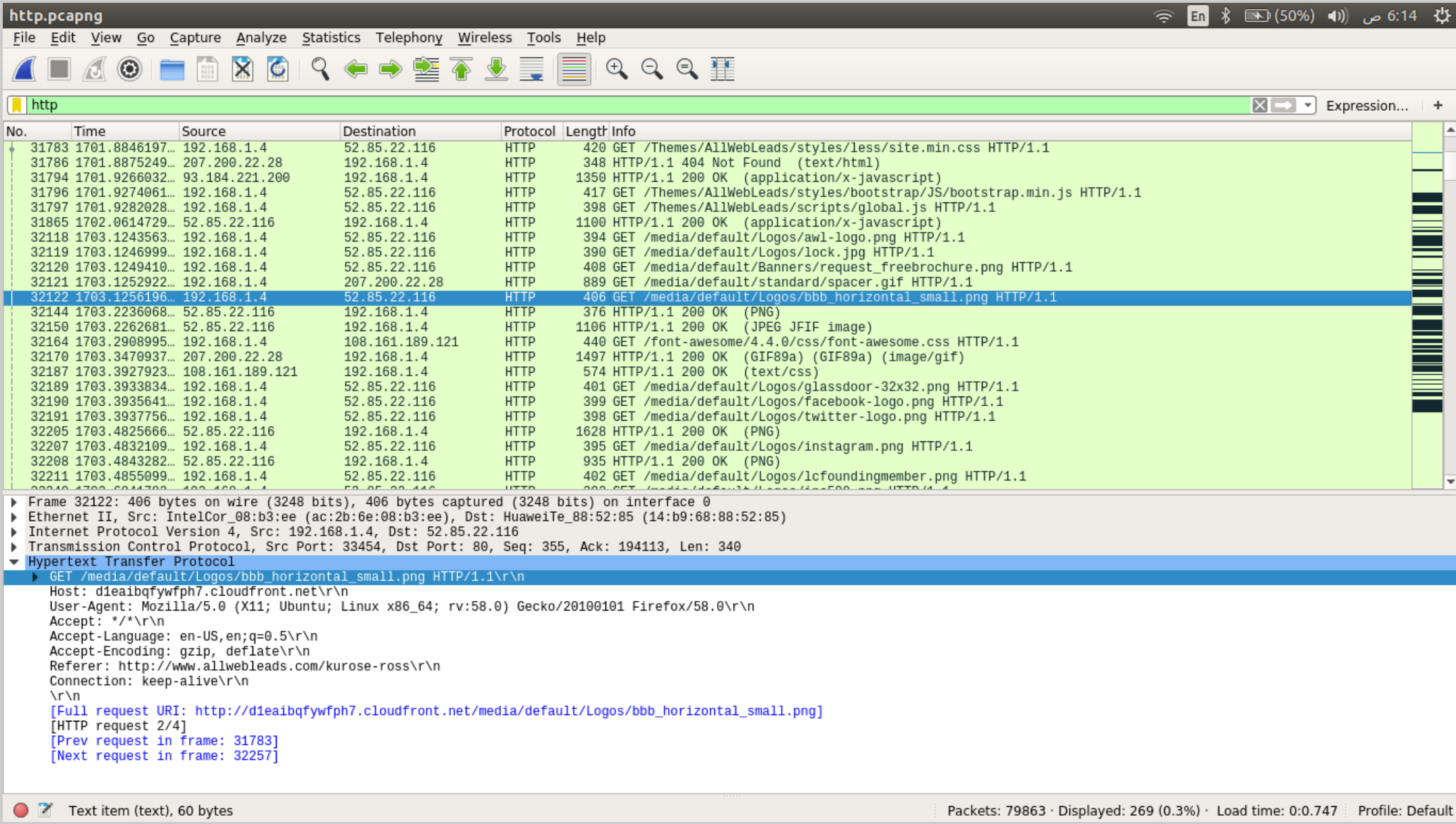
- What is HTTP?

→ Hypertext Transfer Protocol (http) is application layer protocol.
→ HTTP functions as a request-response protocol in the client-server computing model
→ HTTP defines the structure of messages and how the client and server exchange these messages
→ HTTP defines methods/verbs to indicate the desired action to be performed on the identified resource
→ Request methods : GET, POST, PUT, DELETE ... etc.

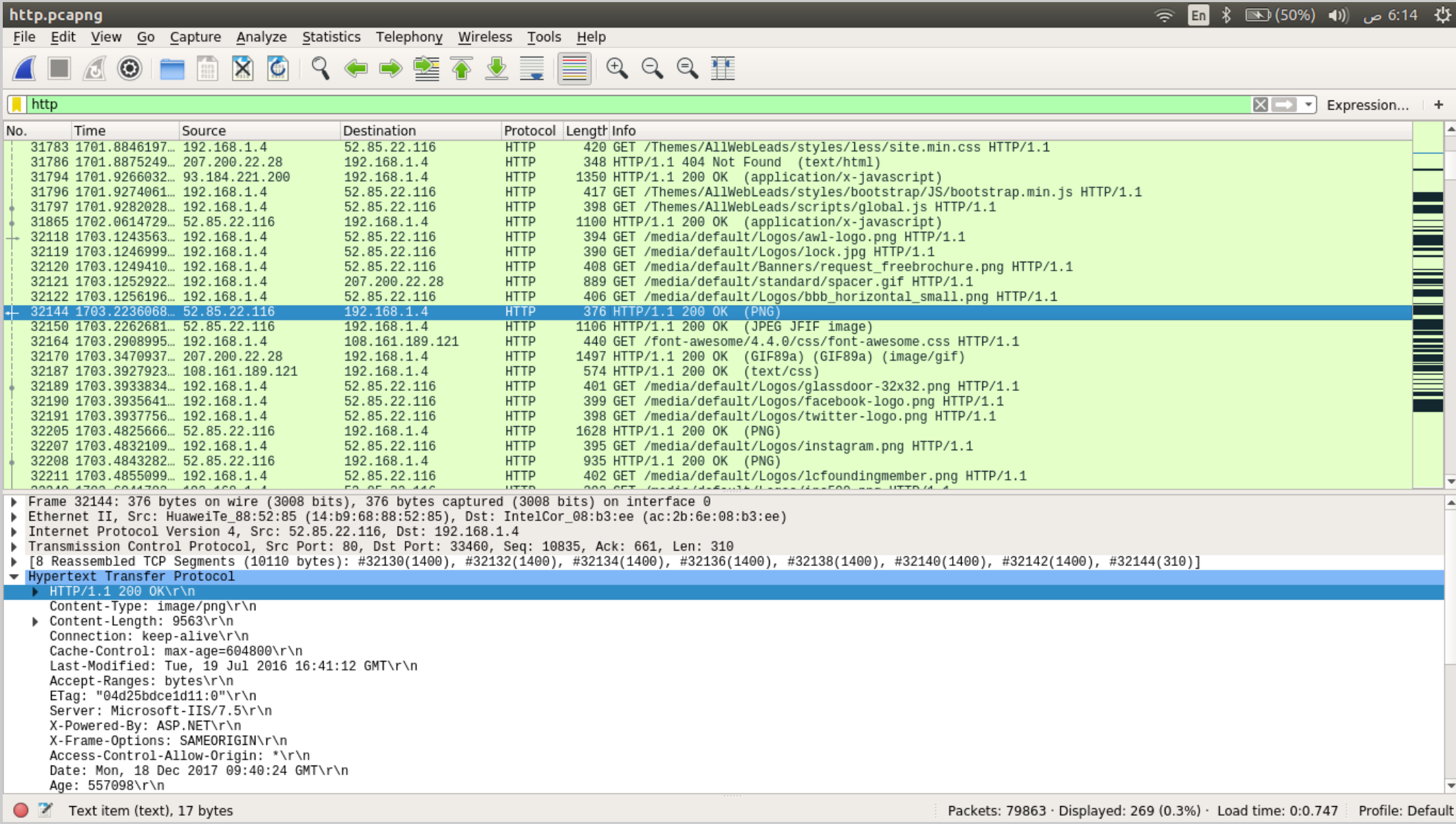


→ The server responds to the browser's request with a three-digit code which is the HTTP status code.
→ HTTP status code:
    200 - OK
    404 - Not Found
    500 - Internal Server Error
    503 - Service Unavailable

HTTP Request:



HTTP Response:



Let’s have fun

1. Capture all HTTP packets.
1. What version of HTTP is the server and your browser running?
2. What is the IP address of your computer and of Server you trying to access ?
3. What is the status code returned from the server?
4. When was the HTML file that you are retrieving last modified at the server?
5. How many bytes of content are being returned to your browser?
6. What is the default port number for the http service?
7. Find all running process that using HTTP protocol. (use lsof command)