

Lab 2 Solution

EE450

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- 1) My version of Http is 1.1. Server is using the same version
- 2) It can be found in the http header: My browser indicates en-US as the accepted language. It is in front of the Accept-Language field. In the http message.
- 3) These can be found under the source and destination tabs in the main window of Wireshark:

My IP: 192.168.8.101

Server IP: 128.119.245.12

- 4) The status code is: 200OK otherwise the request has been failed.
- 5) It is very close (within one minute away of the time you requested the file).
- 6) 128 byte (can be found in front of the content length)
- 7) It might be different from case to case.
- 8) No. There is not such a field.
- 9) Yes, the text data is actually in the body of the response packet.
- 10) Yes there is a field for that, this field indicates the last modified time of the received file in the first call.
- 11) The response code has been changed: 304
It does not send the exact file anymore, it just returns a short message: "Not Modified"
- 12) There is only one get message, the packet number is 28 in my instance of run.
- 13) The packet number for the response is: 36 since in my setting there is only one other packet has been sent before this and after the original Get message, 7 response packets are combined together and are shown within this.
- 14) The response code shown is 200OK (text/html).
- 15) As explained and tested 7 used.
- 16) 3 Get requests should be issued.
The first one asks for the content from the IP: 128.119.245.12
The second asks for the first image after receiving the response data of the webpage and realizing that another two images are required: IP: 165.193.140.14
The third one asks for the second image from the IP: 128.119.240.90
- 17) You can tell that by looking at the time that the TCP connection for downloading each image is established and the time by which it has been closed. If it has been done serially the establishment of one should be after closing of one.
- 18) The server's response is a HTTP message 401: Authorization Required.
- 19) The new fields in the Get command are:
Credentials: wireshark-students: network
Which contains the username and password respectively.