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Exercise 3:Using Wireshark to understand basic HTTP request/response messages

q1:

200 OK

q2:

Tue, 23 Sep 2003 05:29:00 GMT

YES

The "Date" header field represents the date and time at which the message was originated.

the Last-modified represents the date and time at which the origin server believes the resource was last modified.

q3:

Persistent.

First, it is in HTTP/1.1, all connections are considered persistent.

Secondly, there is a header "keep-alive:timeout=10,max=100", and another header "connection:keep-alive".

q4:

73 bytes

q5:

the requested html file.

Exercise 4:Using Wireshark to understand the HTTP CONDITIONAL GET/response interaction

q1:

No "IF-MODIFIED-SINCE" line in the HTTP GET(the first two messages).

q2:

Yes, The last modified time is Tue, 23 Sep 2003 05:35:00 GMT

q3:

Yes.

"IF-MODIFIED-SINCE": Tue, 23 Sep 2003 05:35:00 GMT

It means that the modification date of the source being returned should be at least after this date, otherwise the server should generate a 304 (Not Modified).

"IF-NONE-MATCH" : "1bfef-173-8f4ae900"

It is a client Etag, which will be compared with the current ETag by the server. If the ETags values match then the server will send back "HTTP 304 Not Modified", which means the resource has not changed.

q4:

304 Not Modified

No, since the second http get request is asking if the source has been modified and the response said no, which means the content will be downloaded from the client's cache.

q5:

"1bfef-173-8f4ae900"

It is used for comparison with the value-field of "IF-NONE-MATCH".

No, it has not changed.