

Week 3 Lab Report - COMP3331

Exercise 3

Q1:

- The status code is 200. The phrase returned from the server to the client browser is OK.

Q2:

- The HTML file was last modified at **Last-Modified= Tue, 23 Sep 2003 05:29:00 GMT**. Also, the response contains a **DATE** header and **DATE= Tue, 23 Sep 2003 05:29:50 GMT**.
- By definition, the **DATE** general HTTP header contains the date and time at which the message was originated. The **Last-Modified** response HTTP header contains the date and time at which the origin server believes the resource was last modified. Hence, we can tell that this header message is originated at **DATE** and last time when that **lab2-1.html**(resource) was modified is at **Last-Modified** time.

Q3:

- The connection is persistent. One reason is that it is used by HTTP/1.1 protocol. In HTTP/1.1, all connections are considered persistent unless declared otherwise, which conforms with the description **Connection: Keep-Alive**.

Q4:

- 73 bytes. I can tell from **Content-Length: 73**.

Q5:

- It contains

```
<html>\nCongratulations.  You've downloaded the file lab2-1.html!\n</html>\n
```

Exercise 4

Q1:

- No, I did not see it.

Q2:

- Yes. **Last-Modified: Tue, 23 Sep 2003 05:35:00 GMT**

Q3:

- Yes, **If-Modified-Since: Tue, 23 Sep 2003 05:35:00 GMT** This time is when that file had been last modified. The browser basically asked whether the file has been modified or not since the time that file had been last modified.

Q4:

- Status code is 304. The phrase is Not Modified. Also, the server did not explicitly returned the contents of the file. This is because when the browser first requested the server, it would put something in its cache as well as storing **ETag** or **Last-Modified date** as a “key” from the server.
So, next time, when the browser wants to send a request to the server again, it would include the **ETag** or **Last-Modified** date, telling the server to send a 304 if the content still has that date or ETag.