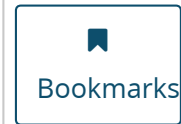




HKUSTx: ELEC1200.3x A System View of Communications: From Signals to Packets (Part 3)



Bookmarks

- ▶ Pre-course Materials
- ▶ Topic 1: Course Overview
- ▶ Topic 2: The Link Layer
- ▶ Topic 3: The Network Layer
- ▶ Topic 4: Routing
- ▶ Topic 5: The Transport Layer
- ▶ Topic 6: Reliable Transfer Protocols

Topic 7: The Application Layer > 7.4 Lab 4 - Application Layer > Lab 4 - Task 3

Bookmark

In this task, we will study the HTTP conditional GET/response interaction, which is used for object caching, which reduces the number of times an object needs to be downloaded from a web server. Most web browsers perform object caching, and thus perform a conditional GET when retrieving an HTTP object.

1. Start your web browser. Before performing the steps below, make sure the cache of your browser is empty.

2. Restart packet capture in Wireshark.

3. Enter the following URL into your browser

http://hkustx-elec1200.ust.hk/3x_lab4/ELEC1200_3x_Lab4_Task3.htm


Your browser should display a very simple HTML file.

4. Quickly enter the same URL into your browser again (or simply select the refresh button on your browser)


5. Stop Wireshark packet capture and view the HTTP messages in the packet listing window by filtering.

▼ Topic 7: The Application Layer


7.1 Application Layer

Week 4 Quiz due Feb 15, 2016 at 15:30 UTC 


7.2 Hypertext Transfer Protocol (HTTP)

Week 4 Quiz due Feb 15, 2016 at 15:30 UTC 

7.3 Domain Name System (DNS)

Week 4 Quiz due Feb 15, 2016 at 15:30 UTC 

7.4 Lab 4 - Application Layer

Lab due Feb 15, 2016 at 15:30 UTC 

► Topic 8: Course Review

► MATLAB download and tutorials

Lab 4 Task 3 Question 1

(1/1 point)

Inspect the contents of the first HTTP GET request from your browser to the server. Do you see an "IF-MODIFIED-SINCE" line in the HTTP GET?

☐ Yes

☒ No 



You have used 1 of 1 submissions

Lab 4 Task 3 Question 2

(1/1 point)

Inspect the contents of the server response. Did the server explicitly return the contents of the file?

☒ Yes 

☐ No



You have used 1 of 1 submissions

Lab 4 Task 3 Question 3

(1 point possible)

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?

☐ Yes 

☒ No



You have used 1 of 1 submissions

Lab 4 Task 3 Question 4

(1/1 point)

What is the status code returned from the server to your browser?

304 ▼  Answer: 304

You have used 2 of 3 submissions

Lab 4 Task 3 Question 5

(1/1 point)

Inspect the contents of the server response. Did the server explicitly return the contents of the file?

☐ Yes

☒ No ✓



You have used 1 of 1 submissions

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