NORTHEASTERN UNIVERSITY

**Communication / Network Security**  
**TELE7374 / CSYE7374**  
**Fall 2023**

## LAB ASSIGNMENT 04 (DUE OCT 09)

### ENDPOINT AND APPLICATION DEVELOPMENT SECURITY

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NOTE: The lab assignments follow the Lab Manual for CompTIA Security+ Guide to Network Security Fundamentals. There are some modifications to save time and reinforce class discussions. Please submit screenshots or answers to demonstrate that you have completed the work. You will need a personal computer to complete the task. Good Luck!

**Lab 4.1. Examine secure cookies and HTTP response headers.**

In this lab, you will examine secure cookies and HTTP response headers for a few websites using Kali.

1. Start your Kali VM.
2. Login using **kali/kali** as the username/password.
3. Open a terminal window.
4. Type **curl -IL www.google.com** and press Enter to view the HTTP response headers for Google. Examine the Set-Cookie lines. Take a screenshot of the results.
5. Type **curl -IL www.chase.com** and press Enter to view the HTTP response headers for a banking website. Note the differences between the websites of Chase and Google.
6. Type **curl -IL https://www.chase.com** and press Enter to view the HTTPS-specific response headers for the same banking website. Note the difference in server response and headers with HTTPS specified.
7. Shut down your Kali virtual machine.

Answer: Enter the screenshot here:

**A screenshot of a computer

Description automatically generated**

What differences between the websites for Chase and Google did you note? \_\_\_\_\_\_Google is using http /1.1 and chase is using http /2 and both of them are are using different security headers. While entering [www.chase](http://www.chase) it specifies that the status code is 301 which means that the website has been permanently moved. Both of them secifies different cache control.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the difference in server response and headers with HTTPS specified? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_The Server response status code changes from 301 to 200 after headers with HTTPS. Which mean faster and secure response.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_