Cookie Monster

"C is for cookie, and cookie is for me." – Cookie
 Monster



Background

What are Cookies?

Cookies are small text files stored on a user's device by a web browser. They are used to store information about the user's session, preferences, and activities on a website.

Why are Cookies Important?

- Session management: Keep users logged in across multiple pages.
- **Personalization**: Store user preferences and settings.
- Tracking and analytics: Collect data on user behavior and interactions.

Today we'll look at some cookies by browsing to a small website called **amazon.com**. We'll use the browsers developer tools to look at requests instead of Wireshark, because Amazon - like most modern websites - uses secure connection (HTTPS), which is encrypted and can't be inspected on Wireshark

Step 1 - Capturing Initial Request

1. Open Browser Developer Tools:

- Open your web browser (e.g., Chrome, Firefox).
- Press F12 or right-click on the page and select "Inspect" to open the developer tools.

2. Navigate to the Network Tab:

• In the developer tools, go to the "Network" tab.

3. Browse to Amazon:

Go to https://www.amazon.com.

4. Identify Set-Cookie Header:

- Find the initial network request to Amazon.
 - There are many subsequent requests to different sources scroll all the way up to the initial one marked www.amazon.com.
- Look at the response headers (sent by the server) for a Set-Cookie header.

5. Record the Cookie:

- What is the content of the **Set-Cookie** header? What information is stored in the cookie?
 - Note that cookies are saved as "key=value".
 - If you don't know what a particular bit of information is for, it's OK search it on Google. If you can't find anything on it, try to make an educated guess.

Step 2 - Capturing Subsequent Request

6. Refresh the Website:

 Refresh the website by pressing F5. This will send another request to Amazon's home page.

7. Navigate to the Network Tab:

 If you quitted it, go again to the "Network" tab. Notice how it starts capturing from scratch once you refresh.

8. Identify Cookie Header:

- Find the subsequent network request related to your action.
 - There are many subsequent requests to different sources.

 Again, scroll all the way up to the initial one marked

 www.amazon.com.
- Look at the request headers (sent by the client your browser)
 for a Cookie header.

9. **Record the Cookie**:

• What is the content of the Cookie header in the request? How does it compare to the Set-Cookie header from the initial response?

Step 3 - Changing Language and Currency

11. Change Language and Currency:

 On Amazon, go to the top right menu and change the language to Spanish (Español) and the currency to Euro (EUR).

12. Refresh the Website:

 Refresh https://www.amazon.com and ensure the new preferences are saved.

13. Capture the New Request:

- In the Network tab, capture the new request after refreshing the page.
- Compare this request with the initial request.

14. **Identify Language and Currency Cookies**:

 What cookies are responsible for storing the language and currency preferences? Find them by comparing the ones in the new request to those from the earlier one.

Step 4 - Manually Changing Cookies

15. Navigate to Application Tab:

- In the developer tools, go to the "Application" tab.
- Under "Storage", select "Cookies" and thenhttps://www.amazon.com.

16. Change Cookies Manually:

- Find the cookies responsible for language and currency.
- Change the language cookie to English (en_US) and the currency cookie to USD.

17. Refresh the Website:

 Refresh https://www.amazon.com and check if the preferences changed to English and USD.

18. Take a Screenshot:

 Take a screenshot of the manually changed cookies in the Application tab.

To Submit

Submit a document with answers for questions marked with and include the screenshot of the manually changed cookies.

