Quiz 10: Security and Session Management

Due Nov 21 at 11:59pm **Points** 10 **Questions** 10
Available Nov 17 at 5pm - Nov 21 at 11:59pm **Time Limit** 15 Minutes

Instructions

This quiz covers lecture 13 (Web Security). Please take the quiz only after watching the lecture videos - the total running time is about 40 minutes for the videos.

This quiz was locked Nov 21 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	15 minutes	9 out of 10

Score for this quiz: **9** out of 10
Submitted Nov 20 at 3:04pm
This attempt took 15 minutes.

Question 1 **1 / 1 pts**

Which of the following is the **most accurate** description of a web session?

- A piece of unique string shared between the server and the client
- A shared state between the server and the client
- A term used to describe a client-server pair
- A piece of information about the client stored in the server

Correct!

Question 2 **1 / 1 pts**

Which of the following is **NOT** a reason for maintaining a web session?

- The server wants to keep track of the client application state
- The client wants privacy
- HTTP is stateless
- The server wants to identify a client

Correct!

Question 3

1 / 1 pts

Which of the following is the **most accurate** description of a web cookie?

- It is a piece of data generated by the server in order to control the client's actions
- It is a secret token included in HTTP messages, used to authenticate the client
- It is a piece of data passed between the server and a client to keep track of some shared state
- It is a lightweight cache to store some metadata about each HTTP message

Correct!

Question 4

1 / 1 pts

Which of the following is **NOT** true about a web cookie?

The client can modify a cookie using the DOM API

The browser automatically includes cookies for some HTTP requests

Correct!

Only the server has permissions to set the value of a cookie

A cookie is included as HTTP headers

Question 5

1 / 1 pts

Essentially, Cross-Site Scripting (XSS) Attack is _____

modifying the JavaScript code of a vulnerable application

Correct!

executing a foreign piece of code within the context of a legitimate application

stealing the cookie from an unsuspecting application user

sending a maliciously crafted URL to an innocent person to click

Question 6

1 / 1 pts

A web application is potentially vulnerable to Cross-Site Scripting attack if...

it uses cookies to maintain session data

the web server serves static HTML files

the web server is hosted on a public domain

Correct!

it accepts input from a user and renders it in the client-side app HTML

Question 7

1 / 1 pts

Which of the following is **NOT** true about a Cross-Site Scripting attack?

Correct!

It can be mounted by crafting a fake application that looks like the real one

It can be mounted on multiple people simultaneously

It can be mounted simply by sending a maliciously-crafted URL

It can be mounted in a stealthy way without any visual cues

Question 8

1 / 1 pts

Essentially, Cross-Site Request Forgery is _____

luring a victim by sending a phishing email

stealing the cookie from an unsuspecting application user

Correct!

crafting a request to be sent from the victim's session

sending a malicious <form> element

Question 9

1 / 1 pts

A web application is potentially vulnerable to Cross-Site Request Forgery attack if...

- the client application renders the HTML dynamically
- Correct! it allows clients to submit requests that alter some state on the server-side
- the web server does not maintain any state
- the web server simply serves static HTML files

Question 10

0 / 1 pts

Which of the following is **NOT** true about a Cross-site request forgery?

- rrect Answer: The attacker must have access to the compromised web application server
- u Answered: The attacker does not need direct access to the victim's cookies

  The attacker does not even need to see the victim's cookies. The point of the CSRF attack is to make the clients themselves -- using their own cookies -- perform the action that the attacker wants, without the client being aware of what is happening.

- A victim can be attacked through a single hyperlink
- It can result in real loss of capital

Quiz Score: **9** out of 10