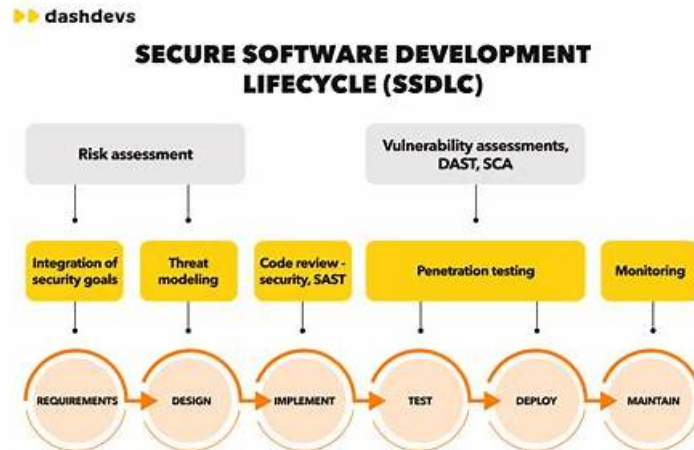


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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Software Architecture and Design: This module covers topics in designing, analyzing, and managing large scale software systems. Students will learn various architecture types, how to select and implement appropriate design patterns, and how to build well structured, reliable, and secure software systems.
Topic 2	<ul style="list-style-type: none"> Design Pattern Selection and Implementation: This section of the exam measures skills of Software Developers and Software Architects and covers the selection and implementation of appropriate design patterns. Learners examine common design patterns and their applications in software development. The material focuses on understanding when and how to apply specific patterns to solve recurring design problems and improve code organization.
Topic 3	<ul style="list-style-type: none"> Reliable and Secure Software Systems: This section of the exam measures skills of Software Engineers and Security Architects and covers building well structured, reliable, and secure software systems. Learners explore principles for creating software that performs consistently and protects against security threats. The content addresses methods for implementing reliability measures and security controls throughout the software development lifecycle.
Topic 4	<ul style="list-style-type: none"> Software System Management: This section of the exam measures skills of Software Project Managers and covers the management of large scale software systems. Learners study approaches for overseeing software projects from conception through deployment. The material focuses on coordination strategies and management techniques that ensure successful delivery of complex software solutions.

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q113-Q118):

NEW QUESTION # 113

Which type of threat exists when an attacker can intercept and manipulate form data after the user clicks the save button but before the request is posted to the API?

- A. Information disclosure
- **B. Tampering**
- C. Elevation of privilege
- D. Spoofing

Answer: B

Explanation:

The type of threat described is Tampering. This threat occurs when an attacker intercepts and manipulates data being sent from the client to the server, such as form data being submitted to an API. The attacker may alter the data to change the intended operation, inject malicious content, or compromise the integrity of the system. Tampering attacks are a significant concern in secure software design because they can lead to unauthorized changes and potentially harmful actions within the application.

:

Understanding the different types of API attacks and their prevention¹.

Comprehensive guide on API security and threat mitigation².

Detailed analysis of Man-in-the-Middle (MitM) attacks and their impact on API security³.

NEW QUESTION # 114

The software security group is conducting a maturity assessment using the Building Security in Maturity Model (BSIMM). They are currently focused on reviewing attack models created during recently completed initiatives.

Which BSIMM domain is being assessed?

- A. Software security development life cycle (SSDL) touchpoints
- B. Deployment
- C. Governance
- **D. Intelligence**

Answer: D

Explanation:

The Intelligence domain in the Building Security in Maturity Model (BSIMM) focuses on gathering and using information about software security. This includes understanding the types of attacks that are possible against the software being developed, which is why reviewing attack models falls under this domain. The BSIMM domain of Intelligence involves creating models of potential attacks on software (attack models), analyzing actual attacks that have occurred (attack intelligence), and sharing this information to improve security measures. By reviewing attack models, the software security group is essentially assessing the organization's ability to anticipate and understand potential security threats, which is a key aspect of the Intelligence domain.

References: The references used to verify this answer include the official BSIMM documentation and related resources that describe the various domains and their activities within the BSIMM framework¹²³⁴⁵.

NEW QUESTION # 115

While performing functional testing of the new product from a shared machine, a QA analyst closed their browser window but did

not logout of the application. A different QA analyst accessed the application an hour later and was not prompted to login. They then noticed the previous analyst was still logged into the application.

How should existing security controls be adjusted to prevent this in the future?

- A. Ensure role-based access control is enforced for access to all resources
- B. Ensure strong password policies are enforced
- **C. Ensure user sessions timeout after short intervals**
- D. Ensure no sensitive information is stored in plain text in cookies

Answer: C

Explanation:

The issue described involves a session management vulnerability where the user's session remains active even after the browser window is closed, allowing another user on the same machine to access the application without logging in. To prevent this security risk, it's essential to adjust the session management controls to include an automatic timeout feature. This means that after a period of inactivity, or when the browser window is closed, the session should automatically expire, requiring a new login to access the application.

This adjustment ensures that even if a user forgets to log out, their session won't remain active indefinitely, reducing the risk of unauthorized access.

References:

* Secure SDLC practices emphasize the importance of security at every stage of the software development life cycle, including the implementation of proper session management controls¹².

* Best practices for access control in security highlight the significance of managing session timeouts to prevent unauthorized access³.

* Industry standards and guidelines often recommend session timeouts as a critical security control to protect against unauthorized access⁴.

NEW QUESTION # 116

What refers to the review of software source code by developers other than the original coders to try to identify oversights, mistakes, assumptions, a lack of knowledge, or even experience?

- A. User acceptance testing
- **B. Manual peer review**
- C. Dynamic code review
- D. Fault injection

Answer: B

Explanation:

Manual peer review refers to the systematic examination of software source code by developers other than the original author. This practice is recognized as a valuable tool for reducing software defects and improving the quality of software projects. It involves developers inspecting the code to find and fix mistakes overlooked in the initial development phase, which enhances both the overall quality of software and the developers' skills.

Peer code review is less formal and more "lightweight" than the code inspections performed in the past, and it provides benefits such as knowledge transfer, increased team awareness, and creation of alternative solutions to problems.

References:

* Expectations, Outcomes, and Challenges Of Modern Code Review¹

* Introduction to Software Engineering/Quality/Code Review²

* Software Security during Modern Code Review: The Developer's Perspective³

NEW QUESTION # 117

What sits between a browser and an internet connection and alters requests and responses in a way the developer did not intend?

- A. Input validation
- B. Reverse engineering
- C. Load testing
- **D. Intercept proxy**

Answer: D

Explanation:

An intercept proxy, also known as a proxy server, sits between a web client (such as a browser) and an external server to filter, monitor, or manipulate the requests and responses passing through it. This can be used for legitimate purposes, such as security testing and user privacy, but it can also be exploited by attackers to alter web traffic in a way that the developer did not intend, potentially leading to security vulnerabilities.

References:

* Understanding of HTTP and HTTPS protocols¹².

* Definition and role of proxy servers³.

NEW QUESTION # 118

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