Test Secure-Software-Design Collection, Exam Secure-Software-Design Overviews

Secure Software Design (D487)
In-Depth Study Guide

Subtitle: Based on Practical Core Software Security - A Reference Framework

Format: Chapter-by-Chapter Breakdown with Exam Readiness, Terminology, Threat Models, Deliverables, and Real-World Applications

Chapter 1: Introduction

- - Differences between software security and application security
- - Secure code vs quality code
- - CIA Triad with definitions, examples, and violations
- - Threat modeling overview (STRIDE, DREAD, DFDs, trust boundaries)
- - Attack surface validation: entry/exit points, expansion via feature additions

Chapter 2: The Security Development Lifecycle (SDL)

- - SDL vs SDLC distinction
- - SDL phases mapped to SDLC phases
- - Maturity models: BSIMM vs OpenSAMM
- - ISO/IEC 27034 standard
- - Tools and talent (SAST, DAST, manual reviews, SDL roles)
- - Principle of Least Privilege and privacy integration
- - Metrics: vulnerabilities caught pre-release, time to patch, training coverage

Chapter 3: Security Assessment (SDL Phase A1)

- - Discovery session outcomes and stakeholders
- - PIA planning, privacy questions, initial risk classification
- - SDL Project Outline, Product Risk Profile, Threat Profile
- - Metrics Template deliverable

Chapter 4: Architecture (SDL Phase A2)

- - Policy compliance analysis with internal/external controls
- - Threat modeling artifacts (DFDs, STRIDE threat mapping, data classification)
- - Architecture Threat Analysis and mitigation planning
- - Open-source evaluation (licensing, vulnerability exposure)
- - Privacy information gathering

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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.

Topic 2	• 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 3	• 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.

Exam Secure-Software-Design Overviews, Real Secure-Software-Design Exam Answers

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q84-Q89):

NEW QUESTION # 84
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 user sessions timeout after short intervals
- B. Ensure no sensitive information is stored in plain text in cookies
- C. Ensure strong password policies are enforced
- D. Ensure role-based access control is enforced for access to all resources

Answer: A

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 # 85
What sits between a browser and an internet connection and alters requests and responses in a way the developer did not intend?

- A. Load testing

- B. Reverse engineering
- C. Input validation
- 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.
:
Understanding of HTTP and HTTPS protocols12.
Definition and role of proxy servers3.

NEW QUESTION # 86
Which security assessment deliverable identities possible security vulnerabilities in the product?

- A. SDL project outline
- B. List of third-party software
- C. Threat profile
- D. Metrics template

Answer: C

Explanation:
A threat profile is a security assessment deliverable that identifies possible security vulnerabilities in a product. It involves a systematic examination of the product to uncover any weaknesses that could potentially be exploited by threats. The process typically includes identifying the assets that need protection, assessing the threats to those assets, and evaluating the vulnerabilities that could be exploited by those threats. This deliverable is crucial for understanding the security posture of a product and for prioritizing remediation efforts.
References: The importance of a threat profile in identifying security vulnerabilities is supported by various security resources. For instance, Future Processing's blog on vulnerability assessments outlines the steps involved in identifying security vulnerabilities, which align with the creation of a threat profile1. Additionally, UpGuard's article on conducting vulnerability assessments further emphasizes the role of identifying vulnerabilities as part of the security assessment process2.

NEW QUESTION # 87
The security team has a library of recorded presentations that are required viewing tor all new developers in the organization. The video series details organizational security policies and demonstrates how to define, test for. and code tor possible threats.
Which category of secure software best practices does this represent?

- A. Attack models
- B. Architecture analysis
- C. Code review
- D. Training

Answer: D

Explanation:
The category of secure software best practices being described is Training. This is because the focus is on educating new developers about organizational security policies and coding practices to mitigate potential threats. Training is a proactive approach to ensure that developers are aware of security concerns and are equipped with the knowledge to address them in their coding practices.
References: The importance of training in secure software best practices is supported by industry resources such as the SAFECode's "Fundamental Practices for Secure Software Development" which emphasizes the need for application security control definition and management1, and the NIST's Secure Software Development Framework (SSDF) which recommends integrating secure development practices throughout the software development lifecycle2. Additional support for this category can be found in resources detailing effective secure development practices345.

NEW QUESTION # 88
An individual is developing a software application that has a back-end database and is concerned that a malicious user may run the following SOL query to pull information about all accounts from the database:
Which technique should be used to detect this vulnerability without running the source codes?

- A. Dynamic analysis
- B. Static analysis
- C. Cross-site scripting
- D. Fuzz testing

Answer: B

Explanation:
Static analysis is a method used to detect vulnerabilities in software without executing the code. It involves examining the codebase for patterns that are indicative of security issues, such as SQL injection vulnerabilities. This technique can identify potential threats and weaknesses by analyzing the code's structure, syntax, and data flow.
References:
* Static analysis as a means to identify security vulnerabilities1.
* The importance of static analysis in the early stages of the SDLC to prevent security issues2.
* Learning-based approaches to fix SQL injection vulnerabilities using static analysis3.

NEW QUESTION # 89
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