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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 考試大綱：

主題	簡介
主題 1	• 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.
主題 2	• 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.

主題 3	• Large Scale Software System Design: This section of the exam measures skills of Software Architects and covers the design and analysis of large scale software systems. Learners investigate methods for planning complex software architectures that can scale and adapt to changing requirements. The content addresses techniques for creating system designs that accommodate growth and handle increased workload demands.
主題 4	• 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.

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問題 #110
During fuzz testing of the new product, an exception was thrown on the order entry view, which caused a full stack dump to be displayed in the browser window that included function names from the source code.
How should existing security controls be adjusted to prevent this in the future?

- A. Ensure sensitive information is scrubbed from all error messages
- B. Ensure all exceptions are handled in a standardized way
- C. Ensure private information is not logged
- D. Ensure privileges are restored after application exceptions

答案：B

問題 #111
Which secure coding best practice ensures sensitive information is not disclosed in any responses to users, authorized or unauthorized?

- A. Authentication and Password Management
- B. System Configuration
- C. Input Validation
- D. Error Handling and Logging

答案：D

問題 #112
The organization has contracted with an outside firm to simulate an attack on the new software product and report findings and remediation recommendations.
Which activity of the Ship SDL phase is being performed?

- A. Penetration testing
- B. Open-source licensing review
- C. Final security review
- D. Policy compliance analysis

答案：A

解題說明：
Penetration testing is an activity where a simulated attack is performed on a software product to identify vulnerabilities that could be exploited by attackers. It is a proactive and authorized attempt to evaluate the security of an IT infrastructure by safely trying to exploit system vulnerabilities, including OS, service and application flaws, improper configurations, and risky end-user behavior. In the context of the Ship phase of the Security Development Lifecycle (SDL), penetration testing is conducted as a final check to uncover any potential security issues that might have been missed during previous phases. This ensures that the software product is robust and secure before it is released.
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The Ship phase of the SDL includes activities such as policy compliance review, vulnerability scanning, penetration testing, open-source licensing review, and final security and privacy reviews1.
Penetration testing is a critical component of the Ship phase, as it helps to identify and fix security vulnerabilities before the software is deployed2.

問題 #113
Automated security testing was performed by attempting to log in to the new product with a known username using a collection of passwords. Access was granted after a few hundred attempts.
How should existing security controls be adjusted to prevent this in the future?

- A. Ensure authentication controls are resistant to brute force attacks
- B. Ensure passwords are encrypted when stored in persistent data stores
- C. Ensure credentials and authentication tokens are encrypted during transit
- D. Ensure strong password policies are enforced

答案：A

問題 #114
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. Manual peer review
- B. Fault injection
- C. Dynamic code review
- D. User acceptance testing

答案：A

解題說明：
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.
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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

問題 #115
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