

Secure-Software-Design模擬問題集 & Secure-Software-Design試験勉強過去問

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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>> Secure-Software-Design模擬問題集 <<

Secure-Software-Design試験勉強過去問 & Secure-Software-Designテスト資料

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WGUSecure Software Design (KEO1) Exam 認定 Secure-Software-Design 試験問題 (Q75-Q80):

質問 # 75

Which architecture deliverable identifies the organization's tolerance to security issues and how the organization plans to react if a security issue occurs?

- A. Policy Compliance Analysis
- B. Business Requirements
- C. Threat Modeling Artifacts
- **D. Risk Mitigation Plan**

正解: D

質問 # 76

The security software team has cloned the source code repository of the new software product so they can perform vulnerability testing by modifying or adding small snippets of code to see if they can cause unexpected behavior and application failure. Which security testing technique is being used?

- **A. Source-Code Fault Injection**
- B. Binary Fault Injection
- C. Fuzz Testing
- D. Dynamic Code Analysis

正解: A

質問 # 77

In which step of the PASTA threat modeling methodology is vulnerability and exploit analysis performed?

- A. Define objectives
- B. Define technical scope
- C. Application decomposition
- **D. Attack modeling**

正解: D

解説:

In the PASTA (Process for Attack Simulation and Threat Analysis) threat modeling methodology, vulnerability and exploit analysis is performed during the Attack modeling step. This step involves identifying potential threats and vulnerabilities within the system and understanding how they could be exploited.

* Attack modeling is a critical phase where the focus is on simulating attacks based on identified vulnerabilities. It allows for a deep understanding of the threats in the context of the application's architecture and system design.

* During this phase, security analysts use their knowledge of the system's technical scope and application decomposition to simulate how an attacker could exploit the system's vulnerabilities. This helps in prioritizing the risks and planning appropriate mitigation strategies.

* The goal of attack modeling is not just to identify vulnerabilities but also to understand the potential impact of exploits on the system and the business, which is essential for developing a robust security posture.

: The information provided is aligned with the PASTA methodology as described in resources such as VerSprite1 and the OWASP Foundation2. These sources detail the seven stages of PASTA, with attack modeling being a key component of the process.

質問 # 78

The software security group is conducting a maturity assessment using the Open Web Application Security Project Software Assurance Maturity Model (OWASP SAMM). They are currently focused on reviewing design artifacts to ensure they comply with organizational security standards.

Which OpenSAMM business function is being assessed?

- A. Construction
- B. Governance
- C. Verification
- D. Deployment

正解: C

解説:

Comprehensive and Detailed In-Depth Explanation:

The Open Web Application Security Project (OWASP) Software Assurance Maturity Model (SAMM) is a framework designed to help organizations assess and improve their software security posture. SAMM is structured around five primary business functions: Governance, Design, Implementation, Verification, and Operations.

In this scenario, the focus is on reviewing design artifacts to ensure compliance with organizational security standards. This activity aligns with the Verification business function within SAMM. The Verification function encompasses security practices related to assessing and validating the security of software artifacts throughout the development lifecycle. Key practices under this function include:

- * Design Review: Evaluating design documents and models to identify potential security issues and ensure that security requirements are adequately addressed.
- * Code Review: Analyzing source code to detect security vulnerabilities and ensure adherence to secure coding standards.
- * Security Testing: Conducting various testing methodologies, such as penetration testing and vulnerability scanning, to identify and remediate security weaknesses in the software.

By focusing on the Verification function, the organization aims to proactively identify and address security concerns during the design and development phases, thereby enhancing the overall security posture of their software products.

References:

- * OWASP SAMM - Verification

質問 # 79

Which type of security analysis is limited by the fact that a significant time investment of a highly skilled team member is required?

- A. Static code analysis
- B. Fuzz testing
- C. Dynamic code analysis
- D. Manual code review

正解: D

解説:

Manual code review is a type of security analysis that requires a significant time investment from a highly skilled team member. This process involves a detailed and thorough examination of the source code to identify security vulnerabilities that automated tools might miss. It is labor-intensive because it relies on the expertise of the reviewer to understand the context, logic, and potential security implications of the code.

Unlike automated methods like static or dynamic code analysis, manual code review demands a deep understanding of the codebase, which can be time-consuming and requires a high level of skill and experience.

References: The information provided here is based on industry best practices and standards for secure software design and development, as well as my understanding of security analysis methodologies¹².

質問 # 80

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効果的なSecure-Software-Design模擬問題集試験-試験の準備方法-正確的なSecure-Software-Design試験勉強過去問

したがって、これらの難しい質問の対処方法Secure-Software-Designを見つけた後、それらの小さな問題はすべて簡単に解決されます、ネットワーク接続なし。

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