

Secure-Software-Design Reliable Mock Test, Secure-Software-Design Best Vce

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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WGUSecure Software Design (KEO1) Exam Sample Questions (Q87-Q92):

NEW QUESTION # 87

Which threat modeling step assigns a score to discovered threats?

- A. Identify and Document Threats
- B. Set the Scope
- C. Analyze the Target
- **D. Rate Threats**

Answer: D

NEW QUESTION # 88

Using a web-based common vulnerabilityscoringsystem (CVSS) calculator, a security response team member performed an assessment on a reported vulnerability in the company's claims intake component. The base score of the vulnerability was 3.5 and changed to 5.9 after adjusting temporal andenvironmental metrics.

Which rating would CVSS assign this vulnerability?

- A. Medium severity
- B. Low severity
- C. Critical severity
- **D. High severity**

Answer: D

Explanation:

The Common Vulnerability Scoring System (CVSS) uses the following ranges to determine the severity rating of a vulnerability:

- * 0.1 - 3.9: Low severity
- * 4.0 - 6.9: Medium severity
- * 7.0 - 8.9: High severity
- * 9.0 - 10.0: Critical severity

Since the adjusted score for the vulnerability is 5.9, it falls within theHigh severityrange.

References:

- * CVSS v3.1 Specification Document - FIRST: <https://www.first.org/cvss/specification-document>
- * National Vulnerability Database (NVD) - NIST: <https://nvd.nist.gov/vuln-metrics/cvss>

NEW QUESTION # 89

Which security assessment deliverable identifies unmanaged code that must be kept up to date throughout the life of the product?

- A. Threat profile
- B. Product risk profile
- C. Metrics template
- **D. List of third-party software**

Answer: D

Explanation:

The security assessment deliverable that identifies unmanaged code that must be kept up to date throughout the life of the product is the List of third-party software. Unmanaged code refers to code that does not run under the garbage-collected environment of the .NET Common Language Runtime, and it often includes legacy code, system libraries, or code written in languages that do not support automatic memory management. Keeping a list of third-party software is crucial because it helps organizations track dependencies and ensure they are updated, patched, and compliant with security standards. This is essential for maintaining the security posture of the software over time, as outdated components can introduce vulnerabilities.

References: The references provided from the web search results support the importance of monitoring and updating software components, including unmanaged code, as part of a secure software development lifecycle¹².

NEW QUESTION # 90

Which secure coding practice uses role-based authentication where department-specific credentials will authorize department-specific functionality?

- A. Authentication
- **B. Access Control**
- C. Data Protection
- D. Input Validation

Answer: B

NEW QUESTION # 91

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

Answer: D

NEW QUESTION # 92

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