

Secure-Software-Design Exam Overview & Secure-Software-Design Exam Dump

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 (Q43-Q48):

NEW QUESTION # 43

What is a countermeasure to the web application security frame (ASF) data validation/parameter validation threat category?

- A. All exceptions are handled in a structured way.
- B. Sensitive information is not logged.
- C. All administrative activities are logged and audited.
- **D. Inputs enforce type, format, length, and range checks.**

Answer: D

NEW QUESTION # 44

Which question reflects the security change management component of the change management process?

- A. Which security objectives are required by the software?
- B. How critical is the software to meeting the customers' mission?
- **C. How is remote administration secured?**
- D. What threats are possible in the environment where the software will be operating?

Answer: C

Explanation:

Option D best addresses security change management, here's why:

* Focus on Change: The question directly asks about a modification to how remote administration is secured. This aligns with the core goal of security change management, which is to evaluate and control the security implications of changes to systems.

* Security-Specific: The question is explicitly concerned with security, not general functionality or requirements.

* Practical Aspect: Remote administration access is a frequent target for attackers, making it a common area for security change management scrutiny.

NEW QUESTION # 45

Which privacy impact statement requirement type defines processes to keep personal information updated and accurate?

- **A. Data integrity requirements**
- B. Access requirements
- C. Personal information retention requirements
- D. Collection of personal information requirements

Answer: A

Explanation:

Data integrity requirements within a privacy impact statement ensure that personal information is maintained in an accurate and up-to-date manner. This involves establishing processes to regularly review and update personal data, as well as correct any inaccuracies. These requirements are crucial for maintaining the trustworthiness of the data and ensuring that decisions made based on this information are sound and reliable.

References:

* The Office of the Privacy Commissioner of Canada's guide on the Privacy Impact Assessment process emphasizes the importance of accuracy and currency of personal information¹.

* The European Union's General Data Protection Regulation (GDPR) outlines principles for data processing, including the necessity for data to be accurate and kept up to date².

* The General Data Protection Regulation (GDPR) also includes provisions for data protection impact assessments, which involve documenting processes before starting data processing³.

NEW QUESTION # 46

Which secure coding practice involves clearing all local storage as soon as a user logs off for the night and will automatically log a user out after an hour of inactivity?

- A. System configuration
- **B. Session management**
- C. Communication security
- D. Access control

Answer: B

Explanation:

The practice of clearing all local storage when a user logs off and automatically logging a user out after an hour of inactivity falls under the category of Session Management. This is a security measure designed to prevent unauthorized access to a user's session and to protect sensitive data that might be stored in the local storage. By clearing the local storage, any tokens, session identifiers, or other sensitive information are removed, reducing the risk of session hijacking or other attacks. The automatic logout feature ensures that inactive sessions do not remain open indefinitely, which could otherwise be exploited by attackers.

References: The information aligns with the secure coding practices outlined by the OWASP Foundation¹, and is supported by common practices in web development for managing sessions and local storage².

NEW QUESTION # 47

Senior IT staff has determined that a new product will be hosted in the cloud and will support web and mobile users. Developers will need to deliver secure REST services. Android and IOS mobile apps. and a web application. Developers are currently determining how to deliver each part of the overall product.

Which phase of the software development lifecycle (SDLC) is being described?

- A. Deployment
- **B. Design**
- C. Maintenance
- D. End of life

Answer: B

Explanation:

The phase being described is the Design phase of the SDLC. During this phase, developers and IT staff determine the architectural and operational details of the product, which includes decisions on how to deliver various components such as secure REST services, mobile apps, and web applications. The Design phase is crucial for setting the foundation for the development work that will follow, ensuring that the product will be secure, scalable, and maintainable.

References: The information aligns with the descriptions of the SDLC phases provided in resources such as GitHub's explanation of the SDLC¹ and other industry-standard software development lifecycle resources²³⁴.

NEW QUESTION # 48

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