

Detailed Secure-Software-Design Study Dumps - Secure-Software-Design New Braindumps Pdf

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	<ul style="list-style-type: none">• 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.
Topic 2	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none"> • 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.
Topic 4	<ul style="list-style-type: none"> • 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.

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q27-Q32):

NEW QUESTION # 27

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

Answer: A

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.

: 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 # 28

Which secure software design principle states that it is always safer to require agreement of more than one entity to make a decision?

- A. Psychological Acceptability
- B. Least Privilege
- C. Separation of Privileges
- D. Total Mediation

Answer: C

NEW QUESTION # 29

The security team is reviewing all noncommercial software libraries used in the new product to ensure they are being used according to the legal specifications defined by the authors.

What activity of the Ship SDL phase is being performed?

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

Answer: C

Explanation:

The activity described pertains to the review of noncommercial software libraries to ensure compliance with the legal specifications set by the authors. This is part of the open-source licensing review, which is a critical activity in the Ship phase of the Security Development Lifecycle (SDL). This review ensures that all open-source components are used in accordance with their licenses, which is essential for legal and security compliance.

The Ship phase of the SDL includes various activities such as policy compliance review, vulnerability scanning, penetration testing, open-source licensing review, and final security and privacy reviews¹². The open-source licensing review specifically addresses the legal aspects of using third-party software components².

NEW QUESTION # 30

Which category classifies identified threats that have some defenses in place and expose the application to limited exploits?

- A. Threat Profile
- B. Fully Mitigated Threat
- C. Partially Mitigated Threat
- D. Unmitigated Threats

Answer: C

NEW QUESTION # 31

An individual is developing a software application that has a back-end database and is concerned that a malicious user may run the following SQL query to pull information about all accounts from the database:

```
SELECT * FROM accounts WHERE account_id= " ' or '1'='1';
```

Which technique should be used to detect this vulnerability without running the source codes?

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

Answer: C

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 # 32

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