

Reliable WGU Secure-Software-Design Exam Cram & Reliable Secure-Software-Design Exam Sample

WGU D487 – Secure Software Design Exam | 2025/2026 Actual Exam (Version A & B) | 100% Correct Verified Answers | Graded A+

Section 1: Introduction

This comprehensive guide includes both Version A and Version B of the WGU D487 Secure Software Design Exam, tailored to the 2025/2026 certification cycle. It contains detailed, accurate questions and verified answers for each version, reflecting the most current curriculum standards in secure software architecture, threat mitigation, SDLC integration, and compliance frameworks. The content is designed to help students prepare confidently and succeed with distinction—each question is paired with a brief rationale for clarity and mastery.

Section 2: Exam Content and Responses

Version A

1 **Question:** What is the primary goal of secure software design?

- A. Maximize software performance
- B. Protect applications from security threats
- C. Reduce development time
- D. Enhance user interface

Correct Answer: B. Protect applications from security threats

Rationale: Secure design focuses on mitigating vulnerabilities throughout the SDLC.

2 **Question:** Which SDLC phase is most critical for integrating security?

- A. Testing
- B. Requirements gathering
- C. Deployment
- D. Maintenance

Correct Answer: B. Requirements gathering

Rationale: Early integration in requirements ensures security is built-in, per NIST guidelines.

3 **Question:** What is the purpose of threat modeling in secure software design?

- A. Optimize code efficiency
- B. Identify potential security risks
- C. Increase system uptime
- D. Reduce hardware costs

Correct Answer: B. Identify potential security risks

Rationale: Threat modeling, as per OWASP, maps risks to mitigate them proactively.

4 **Question:** Which principle advocates minimizing attack surfaces?

- A. Least privilege

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q100-Q105):

NEW QUESTION # 100

The software security team is performing security testing on a new software product using a testing tool that scans the running application for known exploit signatures.

Which security testing technique is being used?

- A. Penetration testing
- B. Properly-based testing
- **C. Automated vulnerability scanning**
- D. Source-code analysis

Answer: C

Explanation:

The security testing technique that involves using a testing tool to scan a running application for known exploit signatures is known as Automated Vulnerability Scanning. This method is part of dynamic analysis, which assesses the software in its running state to identify vulnerabilities that could be exploited by attackers. Automated vulnerability scanning tools are designed to detect and report known vulnerabilities by comparing the behavior and outputs of the application against a database of known exploit signatures¹.

References: 1: Application Security Testing: Tools, Types and Best Practices | GitHub

NEW QUESTION # 101

A product team, consisting of a Scrum Master, a Business Analyst, two Developers, and a Quality Assurance Tester, are on a video call with the Product Owner. The team is reviewing a list of work items to determine how many they feel can be added to their backlog and completed within the next two-week iteration.

Which Scrum ceremony is the team participating in?

- **A. Sprint Planning**
- B. Sprint Retrospective
- C. Daily Scrum
- D. Sprint Review

Answer: A

NEW QUESTION # 102

Which category classifies identified threats that have defenses in place and do not expose the application to exploits?

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

Answer: A

NEW QUESTION # 103

The security team contracts with an independent security consulting firm to simulate attacks on deployed products and report results

to organizational leadership.

Which category of secure software best practices is the team performing?

- A. Attack models
- B. Architecture analysis
- **C. Penetration testing**
- D. Code review

Answer: C

Explanation:

Comprehensive and Detailed In-Depth Explanation:

Engaging an independent security consulting firm to simulate attacks on deployed products is an example of Penetration Testing.

Penetration testing involves authorized simulated attacks on a system to evaluate its security. The objective is to identify vulnerabilities that could be exploited by malicious entities and to assess the system's resilience against such attacks. This proactive approach helps organizations understand potential weaknesses and implement necessary safeguards.

According to the OWASP Testing Guide, penetration testing is a critical component of a comprehensive security program:

"Penetration testing involves testing the security of systems and applications by simulating attacks from malicious individuals."

References:

* OWASP Testing Guide

NEW QUESTION # 104

A potential threat was discovered during automated system testing when a PATCH request sent to the API caused an unhandled server exception. The API only supports GET, POST, PUT, and DELETE requests.

How should existing security controls be adjusted to prevent this in the future?

- A. Ensure audit logs are in place for sensitive transactions
- B. Use API keys to enforce authorization of every request
- **C. Property configure acceptable API requests**
- D. Enforce role-based authorization

Answer: C

Explanation:

The issue described involves a PATCH request causing an unhandled server exception because the API does not support this method. The most direct and effective way to prevent such exceptions is to ensure that the API is configured to accept only the supported request methods: GET, POST, PUT, and DELETE. This can be achieved by implementing strict input validation to reject any requests that do not conform to the defined API specifications, including the request method. By doing so, any requests using unsupported methods like PATCH will be immediately rejected, thus preventing the server from reaching an exception state.

References:

* OWASP's guidance on error and exception handling emphasizes the importance of managing exceptions in a centralized manner and ensuring that all unexpected behavior is correctly handled within the application¹.

* Additional best practices for error handling in software development suggest the significance of input validation and the implementation of defensive programming techniques to prevent errors².

* The OWASP Foundation also highlights the principle that all security mechanisms should deny access until specifically granted, which supports the approach of configuring acceptable API requests³.

NEW QUESTION # 105

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