

Secure-Software-Design Prüfungsressourcen: WGUSecure Software Design (KEO1) Exam & Secure-Software-Design Reale Fragen

WGU D487 Pre-Assessment: Secure Software Design (KEO1) (PKEO) | 60+ (2025–2026 A+ Verified) Exam Q&A

The **WGU D487 Pre-Assessment for Secure Software Design (KEO1 / PKEO)** provides an updated and comprehensive review of core security concepts tested in the 2025–2026 WGU assessment. This verified Q&A resource includes **60+ expertly crafted and validated questions with detailed solutions** to help learners master secure coding and system protection principles.

Introduction

This latest pre-assessment pack is designed to strengthen your understanding of key topics such as **software vulnerabilities, encryption standards, authentication mechanisms, threat modeling, security frameworks, and secure system architecture**. Each question is paired with a clear explanation to promote concept retention and exam readiness.

Answer Format

All correct answers are highlighted in **bold green**, with detailed reasoning that enhances comprehension of **secure software design principles** and **risk mitigation strategies**.

Questions 1–60

1. What is the primary objective of secure software design?

- a) To maximize performance
- b) To minimize security vulnerabilities and protect system integrity
- c) To reduce development time
- d) To simplify user interfaces

b) To minimize security vulnerabilities and protect system integrity

Rationale: Secure software design focuses on reducing vulnerabilities, ensuring confidentiality, integrity, and availability through secure coding and architecture practices.

2. Which of the following is a common software vulnerability listed in the OWASP Top 10?

- a) Excessive logging
- b) Injection attacks
- c) Over-optimization
- d) Code duplication

b) Injection attacks

Rationale: Injection attacks (e.g., SQL, command injection) are a top OWASP vulnerability, allowing attackers to execute malicious code via unsanitized input.

3. What does the STRIDE model help identify in threat modeling?

- a) Software performance issues

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WGU Secure-Software-Design Prüfungsplan:

Thema	Einzelheiten
Thema 1	Design Pattern Selection and Implementation: This section of the exam measures skills of Software Developers and Software Architects and covers the selection and implementation of appropriate design patterns. Learners examine common design patterns and their applications in software development. The material focuses on understanding when and how to apply specific patterns to solve recurring design problems and improve code organization.

Thema 2	• 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.
Thema 3	• 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.
Thema 4	• 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.
Thema 5	• Software Architecture Types: This section of the exam measures skills of Software Architects and covers various architecture types used in large scale software systems. Learners explore different architectural models and frameworks that guide system design decisions. The content addresses how to identify and evaluate architectural patterns that best fit specific project requirements and organizational needs.

>> Secure-Software-Design Fragen Und Antworten <<

WGU Secure-Software-Design Prüfung Übungen und Antworten

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WGUSecure Software Design (KEO1) Exam Secure-Software-Design Prüfungsfragen mit Lösungen (Q81-Q86):

81. Frage

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

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

Antwort: C

82. Frage

The security team is reviewing whether changes or open issues exist that would affect requirements for handling personal information documented in earlier phases of the development life cycle.

Which activity of the Ship SDL phase is being performed?

- A. Open-source licensing review
- B. Vulnerability scan
- **C. Final privacy review**
- D. Final security review

Antwort: C

Begründung:

The activity being performed is the final privacy review. This step is crucial in the Ship phase of the Security Development Lifecycle (SDL), where the security team assesses if there are any changes or unresolved issues that could impact the requirements for handling personal information. These requirements are typically documented in the earlier stages of the development lifecycle, and the final privacy review ensures that the software complies with these requirements before release.

: The explanation is based on the best practices outlined in the SDL Activities and Best Practices, which detail the importance of conducting a final privacy review during the Ship phase to ensure that all privacy issues have been addressed¹².

83. Frage

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

Antwort: A

Begründung:

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.

: 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.

84. Frage

The security testing team received a report from one of the contracted penetration testing vendors that details a flaw discovered in the login component of the new software product, along with a recommended fix.

Which phase of the penetration testing process is the team in?

- A. Identify
- B. Deploy
- C. Evaluate and plan
- **D. Assess**

Antwort: D

Begründung:

Comprehensive and Detailed Explanation From Exact Extract:

The team is in the Assess phase of penetration testing. This phase involves actively testing the software, identifying vulnerabilities, and documenting findings with recommendations. Receiving a report detailing a discovered flaw confirms that testing has been conducted and results are being evaluated. The Identify (A) phase involves defining scope and targets, Evaluate and Plan (B) covers planning test activities, and Deploy (C) refers to executing the test environment setup. The OWASP Penetration Testing Guide and NIST SP 800-

115 clarify that assessment includes vulnerability discovery and documentation.

References:

OWASP Penetration Testing Guide

NIST SP 800-115 Technical Guide to Information Security Testing and Assessment Microsoft SDL Security Testing Guidance

85. Frage

Which mitigation technique is used to fight against an identity spoofing threat?

- **A. Require user authorization**
- B. Filtering

- C. Audit trails
- D. Encryption

Antwort: A

Begründung:

To combat identity spoofing threats, a mitigation technique that is often used is requiring user authorization.

This involves implementing strong authentication methods to verify the identity of users before granting access to sensitive information or systems. Techniques such as two-factor authentication (2FA) or multi-factor authentication (MFA) are effective in reducing the risk of unauthorized access, as they require users to provide multiple pieces of evidence to confirm their identity, making it much harder for attackers to spoof an identity successfully.

:

Best practices for preventing spoofing attacks, including the use of antivirus and firewall tools, and the importance of strong authentication methods like 2FA and MFA¹.

The National Security Agency's guidance on identity theft threats and mitigations, emphasizing the need for personal protection and strong authentication measures².

Discussion on the effectiveness of strong authentication methods in protecting against spoofing attacks³.

The role of comprehensive identity verification and authentication strategies in preventing AI-enhanced identity fraud⁴.

86. Frage

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