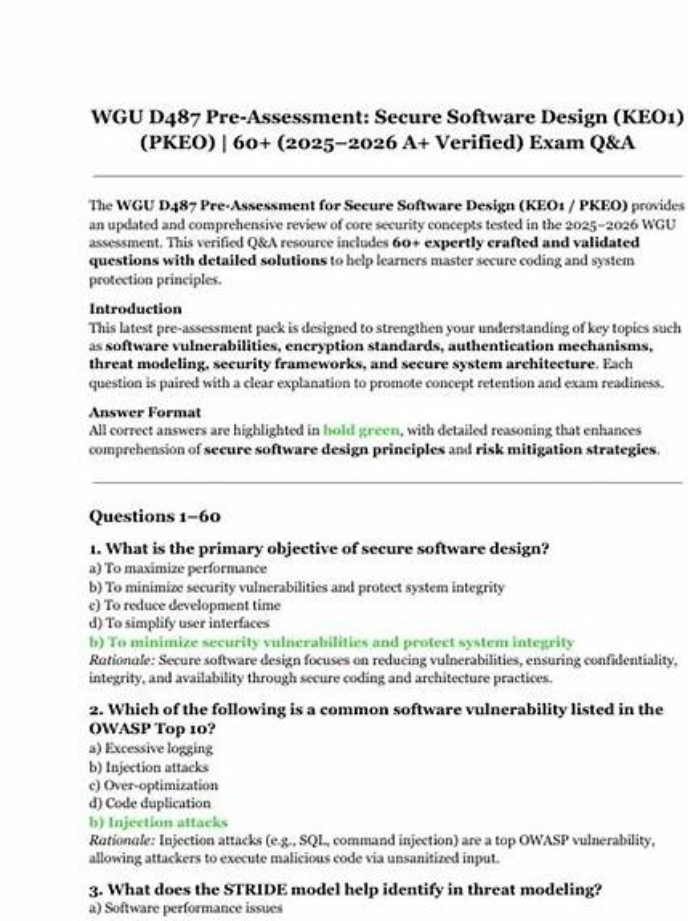
Secure-Software-Design Übungsfragen: WGUSecure Software Design (KEO1) Exam & Secure-Software-Design Dateien Prüfungsunterlagen



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

Übrigens, Sie können die vollständige Version der ZertSoft Secure-Software-Design Prüfungsfragen aus dem Cloud-Speicher herunterladen: https://drive.google.com/open?id=1c3GpEnZPuipoejPlR7x403xUZ7cW9gHC

Die Examfragen zur WGU Secure-Software-Design Zertifizierungsprüfung von ZertSoft ist von den IT-Experten verifiziert und überprüft. Die Fragen und Antworten zur WGU Secure-Software-Design Zertifizierungsprüfung sind die von der Praxis überprüfte Software und die Schulungsinstrumente. In ZertSoft werden Sie die besten Zertifizierungsmaterialien finden, die originale Fragen und Antworten enthalten. Unsere Materialien bieten Ihnen die Chance, die echten Übungen zu machen. Endlich werden Sie Ihr Ziel, nämlich die WGU Secure-Software-Design Zertifizierungsprüfung zu bestehen, erreichen.

WGU Secure-Software-Design Prüfungsplan:

Thema	Einzelheiten

Thema 1	• 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 2	• 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.
Thema 3	• 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.
Thema 4	• 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.

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Zweifellos braucht die Vorbereitung der WGU Secure-Software-Design Prüfung große Mühe. Aber diese Zertifizierungsprüfung zu bestehen bedeutet, dass Sie in IT-Gewerbe bessere Berufsperspektive besitzen. Deshalb was wir für Sie tun können ist, lassen Ihre Anstrengungen nicht umsonst geben. Die Wirkung und die Autorität der WGU Secure-Software-Design Prüfungssoftware erwerbt die Anerkennung vieler Kunden. Solange Sie die demo kostenlos downloaden und probieren, können Sie es empfinden. Wir wollen Ihnen mit allen Kräften helfen, Die WGU Secure-Software-Design zu bestehen!

WGUSecure Software Design (KEO1) Exam Secure-Software-Design Prüfungsfragen mit Lösungen (Q16-Q21):

16. Frage
The software security team prepared a report of necessary coding and architecture changes identified during the security assessment. Which design and development deliverable did the team prepare?

- A. Updated threat modeling artifacts
- B. Privacy implementation assessment results
- C. Security test plans
- D. Design security review

Antwort: A

Begründung:
Comprehensive and Detailed In-Depth Explanation:
In the context of software security, a threat model is a structured representation that identifies potential threats to the system, evaluates their severity, and guides the development of mitigation strategies. When a security assessment reveals vulnerabilities or areas of concern, it's imperative to update the threat modeling artifacts to reflect these findings. This ensures that the threat model remains an accurate and current representation of the system's security posture.
By updating the threat modeling artifacts, the team documents the identified threats and outlines necessary coding and architectural changes to mitigate these threats. This proactive approach allows for the integration of security considerations early in the design and development phases, reducing the likelihood of vulnerabilities in the deployed system.
This practice aligns with the Design business function of the OWASP Software Assurance Maturity Model (SAMM), which emphasizes the importance of incorporating security into the software design process.

Within this function, the Threat Assessment practice focuses on identifying and evaluating potential threats to inform security requirements and design decisions. Updating threat modeling artifacts is a key activity within this practice, ensuring that security assessments directly influence the system's design and architecture.
References:
* OWASP SAMM: Design - Threat Assessment

17. Frage
The security software team has cloned the source code repository of the new software product so they can perform vulnerability testing by modifying or adding small snippets of code to see if they can cause unexpected behavior and application failure.
Which security testing technique is being used?

- A. Binary Fault Injection
- B. Fuzz Testing
- C. Source-Code Fault Injection
- D. Dynamic Code Analysis

Antwort: C

18. Frage
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. Penetration testing
- B. Architecture analysis
- C. Attack models
- D. Code review

Antwort: A

Begründung:
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

19. Frage
The organization has contracted with an outside firm to simulate an attack on the new software product and report findings and remediation recommendations.
Which activity of the Ship SDL phase is being performed?

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

Antwort: B

Begründung:
Penetration testing is an activity where a simulated attack is performed on a software product to identify vulnerabilities that could be exploited by attackers. It is a proactive and authorized attempt to evaluate the security of an IT infrastructure by safely trying to exploit system vulnerabilities, including OS, service and application flaws, improper configurations, and risky end-user behavior. In the context of the Ship phase of the Security Development Lifecycle (SDL), penetration testing is conducted as a final check to

uncover any potential security issues that might have been missed during previous phases. This ensures that the software product is robust and secure before it is released.
References:
* The Ship phase of the SDL includes activities such as policy compliance review, vulnerability scanning, penetration testing, open-source licensing review, and final security and privacy reviews1.
* Penetration testing is a critical component of the Ship phase, as it helps to identify and fix security vulnerabilities before the software is deployed2.

20. Frage
The final security review determined that two low-risk security issues identified in testing are still outstanding. Developers have assured the security team that both issues can be resolved quickly once they have time to fix them. The security team is confident that developers can fix the flaws in the first post-release patch.
What is the result of the final security review?

- A. Passed with Exceptions
- B. Passed
- C. Not Passed but Does Not Require Escalation
- D. Not Passed and Requires Escalation

Antwort: A

21. Frage
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Egal wie attraktiv die Vorstellung ist, ist nicht so überzeugend wie Ihre eigene Empfindung. Die Demo der WGU Secure-Software-Design Software können Sie auf unsere Webseite ZertSoft einfach herunterladen. Unser erfahrenes Team bieten Ihnen die zuverlässigsten Unterlagen der WGU Secure-Software-Design. Wenn Sie noch Fragen über WGU Secure-Software-Design Prüfungsunterlagen haben, können Sie sich auf unsere Website online darüber konsultieren. Onlinedienst bieten wir ganztägig.

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