

Pass Guaranteed Quiz WGU - Secure-Software-Design - Updated WGUSecure Software Design (KEO1) Exam Test Question

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 Exam Syllabus Topics:

Topic	Details

Topic 1	<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 2	<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 3	<ul style="list-style-type: none"> 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.
Topic 4	<ul style="list-style-type: none"> 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.

>> Secure-Software-Design Test Question <<

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WGU Secure Software Design (KEO1) Exam Sample Questions (Q11-Q16):

NEW QUESTION # 11

What are the three primary goals of the secure software development process?

- A. Cost, speed to market, and profitability
- B. Performance, reliability, and maintainability
- C. Redundancy, scalability, and portability
- D. Confidentiality, integrity, and availability

Answer: D

Explanation:

The three primary goals of the secure software development process, often referred to as the CIA triad, are confidentiality, integrity, and availability. These principles form the cornerstone of security considerations in the software development life cycle (SDLC).

* Confidentiality ensures that sensitive information is accessed only by authorized individuals and systems. This involves implementing access controls and encryption to protect data from unauthorized access.

* Integrity refers to maintaining the accuracy and consistency of data across its lifecycle. This means that the data is not altered or tampered with by unauthorized entities. Techniques like checksums and digital signatures help ensure data integrity.

* Availability ensures that information and resources are accessible to authorized users when needed.

This involves creating resilient systems that can withstand attacks and recover quickly from any disruptions.

By integrating these security goals into each phase of the SDLC, from planning and design to development, testing, and maintenance, organizations can create more secure software systems that are resilient to cyber threats.

References: The information provided here is verified as per the Secure Software Design documents and best practices in the field, as outlined by sources such as Snyk1, GeeksforGeeks2, and SAFECode3.

NEW QUESTION # 12

What is a countermeasure to the web application security frame (ASF) authentication threat category?

- A. Cookies have expiration timestamps.
- B. Credentials and tokens are encrypted.
- C. Sensitive information is scrubbed from error messages
- D. **Role-based access controls restrict access**

Answer: D

Explanation:

* ASF Authentication Threats: The Web Application Security Frame (ASF) authentication category encompasses threats related to how users and systems prove their identity to the application. This includes issues like weak passwords, compromised credentials, and inadequate access controls.

* Role-Based Access Control (RBAC): RBAC is a well-established security principle that aligns closely with addressing authentication threats. It involves assigning users to roles and granting those roles specific permissions based on the principle of least privilege. This limits the attack surface and reduces the impact of a compromised user account.

Let's analyze the other options:

- * B. Credentials and tokens are encrypted: While vital for security, encryption primarily protects data at rest or in transit. It doesn't directly address authentication risks like brute-force attacks or weak password management.
- * C. Cookies have expiration timestamps: Expiring cookies are a good practice, but their primary benefit is session management rather than directly mitigating authentication-specific threats.
- * D. Sensitive information is scrubbed from error messages: While essential for preventing information leakage, this practice doesn't address the core threats within the ASF authentication category.

References:

NIST Special Publication 800-53 Revision 4, Access Control (AC) Family: (<https://csrc.nist.gov/publications/detail/sp/800-53/rev-4/final>) Details the importance of RBAC as a cornerstone of access control.

The Web Application Security Frame (ASF): (<https://patents.google.com/patent/US7818788B2/en>) Outlines the ASF categories, with authentication being one of the primary areas.

NEW QUESTION # 13

What sits between a browser and an internet connection and alters requests and responses in a way the developer did not intend?

- A. Reverse engineering
- B. Input validation
- C. Load testing
- D. **Intercept proxy**

Answer: D

Explanation:

An intercept proxy, also known as a proxy server, sits between a web client (such as a browser) and an external server to filter, monitor, or manipulate the requests and responses passing through it. This can be used for legitimate purposes, such as security testing and user privacy, but it can also be exploited by attackers to alter web traffic in a way that the developer did not intend, potentially leading to security vulnerabilities.

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Understanding of HTTP and HTTPS protocols12.

Definition and role of proxy servers3.

NEW QUESTION # 14

A recent vulnerability scan uncovered an XML external entity (XXE) flaw that could allow attackers to return the contents of a system file by including a specific payload in an XML request.

How should the organization remediate this vulnerability?

- A. Enforce role-based authorization in all application layers
- B. Disable resolution of external entities in the parsing library
- C. Ensure audit trails exist for all sensitive transactions
- D. **Ensure authentication cookies are encrypted**

Answer: D

Explanation:

Security change management within the change management process involves ensuring that any changes, including updates or modifications to software, do not introduce new vulnerabilities and are in line with security policies. The question about securing remote administration directly reflects this component because it addresses the security considerations that must be managed when changes are made to how software is accessed and controlled remotely. This includes implementing secure protocols, authentication methods, and monitoring to prevent unauthorized access or breaches, which are crucial when managing changes in a secure manner.

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Change management in cybersecurity emphasizes the structured approach to implementing alterations in security protocols, technologies, and processes, ensuring systematic assessment and monitoring¹.

The role of change management in cybersecurity includes decisions about network access and ensuring the right person can access the right information at the right time, which aligns with securing remote administration².

Seminal change management models in cybersecurity, like PROSCI's ADKAR model, guide individuals through the change process, managing resistance and identifying training needs, which is relevant to securing remote administration³.

NEW QUESTION # 15

The software security team has been tasked with assessing a document management application that has been in use for many years and developing a plan to ensure it complies with organizational policies.

Which post-release deliverable is being described?

- A. External vulnerability disclosure response process
- B. Post-release certifications
- C. **Security strategy for legacy code**
- D. Security strategy for M&A products

Answer: C

Explanation:

The task described involves assessing a document management application that has been in use for many years. This scenario typically requires a security strategy that addresses the unique challenges of legacy code.

Legacy code refers to software that has been around for a long time and may not have been developed with current security standards in mind. A security strategy for legacy code would include measures to ensure that the application complies with current organizational policies, which may involve code reviews, updates, and the implementation of modern security practices to mitigate any potential vulnerabilities inherent in older code¹².

References:

- * Remotebase, "Best Practices for Managing Legacy Code"
- * Medium, "The Engineer's Complete Guide to Legacy Code"
- * Parasoft, "Testing Legacy Code & 3 Steps to Update"

NEW QUESTION # 16

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