

Quiz 2026 WGU Secure-Software-Design: High Pass-Rate WGU Secure Software Design (KEO1) Exam Valid Exam Pattern

WGU D487 SECURE SOFTWARE DESIGN EXAM 2025/2026
TEST BANK| COMPLETE 1300 ACCURATE EXAM
QUESTIONS WITH DETAILED VERIFIED ANSWERS (100%
CORRECT ANSWERS) ALREADY GRADED A+

What is the study of real-world software security initiatives organized so companies can measure their initiatives and understand how to evolve them over time?

A) Building Security in Maturity Model (BSIMM)
B) Security features and design
C) OWASP Software Assurance Maturity Model (SAMM)
D) ISO 27001 - Correct Answer - A) Building Security in Maturity Model (BSIMM)

What is the analysis of computer software that is performed without executing programs?

A) Static analysis
B) Fuzzing
C) Dynamic analysis
D) OWASP ZAP - Correct Answer - A) Static analysis

A new product will require an administration section for a small number of users. Normal users will be able to view limited customer information and should not see admin functionality within the application.

Which concept is being used?

A) Principle of least privilege

pg.1

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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"> 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.
Topic 3	<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.

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q17-Q22):

NEW QUESTION # 17

In which step of the PASTA threat modeling methodology is vulnerability and exploit analysis performed?

- A. Define technical scope
- B. Attack modeling**
- C. Define objectives
- D. Application decomposition

Answer: B

Explanation:

In the PASTA (Process for Attack Simulation and Threat Analysis) threat modeling methodology, vulnerability and exploit analysis is performed during the Attack modeling step. This step involves identifying potential threats and vulnerabilities within the system and understanding how they could be exploited.

* Attack modeling is a critical phase where the focus is on simulating attacks based on identified vulnerabilities. It allows for a deep understanding of the threats in the context of the application's architecture and system design.

* During this phase, security analysts use their knowledge of the system's technical scope and application decomposition to simulate how an attacker could exploit the system's vulnerabilities. This helps in prioritizing the risks and planning appropriate mitigation strategies.

* The goal of attack modeling is not just to identify vulnerabilities but also to understand the potential impact of exploits on the system and the business, which is essential for developing a robust security posture.

References: The information provided is aligned with the PASTA methodology as described in resources such as VerSprite1 and the OWASP Foundation2. These sources detail the seven stages of PASTA, with attack modeling being a key component of the process.

NEW QUESTION # 18

What is a countermeasure to the web application security frame (ASF) data validation/parameter validation threat category?

- A. All exceptions are handled in a structured way.
- B. All administrative activities are logged and audited.
- C. Sensitive information is not logged.
- D. Inputs enforce type, format, length, and range checks.

Answer: D

NEW QUESTION # 19

The Chief Information Security Officer (CISO) has recommended contracting with external experts to perform annual reviews of the enterprise's software products, including penetration testing.

Which post-release deliverable is being described?

- A. Third-Party Security Review
- B. Post-Release Certifications
- C. Security Strategy for Legacy Code
- D. External Vulnerability Disclosure Response Process

Answer: A

NEW QUESTION # 20

A company is moving forward with a new product. Product scope has been determined, teams have formed, and backlogs have been created. Developers are actively writing code for the new product, with one team concentrating on delivering data via REST services, one Team working on the mobile apps, and a third team writing the web application.

Which phase of the software development lifecycle (SDLC) is being described?

- A. Implementation
- B. Design
- C. Requirements
- D. Deployment

Answer: A

Explanation:

The phase being described is the Implementation phase of the SDLC. During this phase, the actual development starts, and the product begins to be built. The teams are actively writing code, which is a key activity of the Implementation phase. This phase involves translating the design and specifications into executable code, developing the software's features, and then integrating the various components into a full-fledged system.

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The Software Development Life Cycle (SDLC): 7 Phases and 5 Models1.

What Is the Software Development Life Cycle? SDLC Explained2.

SDLC: 6 Main Stages of the Software Product Development Lifecycle3.

Software Development Life Cycle (SDLC) Phases & Models4.

NEW QUESTION # 21

Which secure coding best practice says to assume all incoming data should be considered untrusted and should be validated to ensure the system only accepts valid data?

- A. Input validation
- B. System configuration
- C. General coding practices
- D. Session management

Answer: A

Explanation:

The secure coding best practice that emphasizes treating all incoming data as untrusted and subjecting it to validation is known as

input validation. This practice is crucial for ensuring that a system only processes valid, clean data, thereby preventing many types of vulnerabilities, such as SQL injection, cross-site scripting (XSS), and buffer overflows, which can arise from maliciously crafted inputs.

* Input validation involves verifying that the data meets certain criteria before it is processed by the system. This includes checking for the correct data type, length, format, and range. It also involves sanitizing the data to ensure that it does not contain any potentially harmful elements that could lead to security breaches.

* A centralized input validation routine is recommended for the entire application, which helps in maintaining consistency and effectiveness in the validation process. This routine should be implemented on a trusted system, typically server-side, to prevent tampering or bypassing of the validation logic.

* It's important to classify all data sources into trusted and untrusted categories and to apply rigorous validation to all data from untrusted sources, such as user input, databases, file streams, and network interfaces.

By adhering to the input validation best practice, developers can significantly reduce the attack surface of their applications and protect against a wide array of common security threats.

References: The verified answer is supported by the Secure Coding Practices outlined by the OWASP Foundation¹ and other reputable sources such as Coding Dojo² and CERT Secure Coding³.

NEW QUESTION # 22

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