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WGU D487 PRE-ASSESSMENT: SECURE SOFTWARE DESIGN (KEO1) (PKEO)

Exam Questions With Revised Correct Answers

BEST UPDATED!!

- 1) What are the 11 security design principles? - ANSWER
Least privilege, Separation of duties, Defense in depth, fail-safe, Economy of mechanism, Complete mediation, Open Design, Least common mechanism, Psychological acceptability, Weakest link, Leveraging existing components

- 2) Software Security Maturity Models and the SDL
- ANSWER OWASP's Open Software Assurance Maturity Model (OpenSAMM)
Building Security in Maturity Model

- 3) OpenSAMM: Governance
- ANSWER is centered on the processes and activities related to how an organization manages overall software development activities. More specifically, this includes

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WGU Secure-Software-Design Exam Syllabus Topics:

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

WGU Secure Software Design (KEO1) Exam Sample Questions (Q82-Q87):

NEW QUESTION # 82

While performing functional testing of the ordering feature in the new product, a tester noticed that the order object was transmitted to the POST endpoint of the API as a human-readable JSON object.

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

- A. Ensure passwords and private information are not logged
- **B. Ensure all requests and responses are encrypted**
- C. Ensure the contents of authentication cookies are encrypted
- D. Ensure sensitive transactions can be traced through an audit log

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation:

Transmitting data in a human-readable format, such as JSON, over an API can expose sensitive information if the communication channel is not secure. To protect the confidentiality and integrity of the data, it's essential to encrypt all requests and responses between clients and servers.

Implementing encryption, typically through protocols like HTTPS (which utilizes TLS/SSL), ensures that data transmitted over the network is not readable by unauthorized parties. This prevents potential attackers from intercepting and understanding the data, thereby safeguarding sensitive information contained within the API communications.

This practice is a fundamental aspect of secure software development and aligns with the Implementation business function of the OWASP SAMM. Within this function, the Secure Build practice emphasizes the importance of configuring the software to operate securely in its intended environment, which includes enforcing encryption for data in transit.

References:

* OWASP SAMM: Implementation - Secure Build

NEW QUESTION # 83

A potential threat was discovered during vulnerability testing when an environment configuration file was found that contained the database username and password stored in plain text.

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

- A. Enforce Role-Based Authorization
- B. Ensure Strong Password Policies are in Effect
- C. Encrypt Secrets in Storage and Transit
- D. Validate All User Input

Answer: C

NEW QUESTION # 84

The security team is reviewing all noncommercial software libraries used in the new product to ensure they are being used according to the legal specifications defined by the authors.

What activity of the Ship SDL phase is being performed?

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

Answer: B

Explanation:

The activity described pertains to the review of noncommercial software libraries to ensure compliance with the legal specifications set by the authors. This is part of the open-source licensing review, which is a critical activity in the Ship phase of the Security Development Lifecycle (SDL). This review ensures that all open-source components are used in accordance with their licenses, which is essential for legal and security compliance.

References: The Ship phase of the SDL includes various activities such as policy compliance review, vulnerability scanning, penetration testing, open-source licensing review, and final security and privacy reviews¹². The open-source licensing review specifically addresses the legal aspects of using third-party software components².

NEW QUESTION # 85

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

Answer: C

NEW QUESTION # 86

A software security team recently completed an internal assessment of the company's security assurance program. The team delivered a set of scorecards to leadership along with proposed changes designed to improve low-scoring governance, development, and deployment functions.

Which software security maturity model did the team use?

- A. Building Security In Maturity Model (BSIMM)
- B. International Organization for Standardization ISO/IEC 27034
- C. Open Web Application Security Project (OWASP) Open Software Assurance Maturity Model (SAMM)
- D. U.S. Department of Homeland Security Software Assurance Program

