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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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Topic	Details

Topic 1	<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 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.

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q107-Q112):

NEW QUESTION # 107

Which question reflects the security change management component of the change management process?

- A. How is remote administration secured?
- B. Which security objectives are required by the software?
- C. What threats are possible in the environment where the software will be operating?
- D. How critical is the software to meeting the customers' mission?

Answer: A

Explanation:

Option D best addresses security change management, here's why:

- * Focus on Change: The question directly asks about a modification to how remote administration is secured. This aligns with the core goal of security change management, which is to evaluate and control the security implications of changes to systems.
- * Security-Specific: The question is explicitly concerned with security, not general functionality or requirements.
- * Practical Aspect: Remote administration access is a frequent target for attackers, making it a common area for security change management scrutiny.

NEW QUESTION # 108

The security team has a library of recorded presentations that are required viewing for all new developers in the organization. The video series details organizational security policies and demonstrates how to define, test for, and code for possible threats. Which category of secure software best practices does this represent?

- A. Attack models
- B. Architecture analysis
- C. Code review
- D. Training

Answer: D

Explanation:

The category of secure software best practices being described is Training. This is because the focus is on educating new developers about organizational security policies and coding practices to mitigate potential threats. Training is a proactive approach to ensure that developers are aware of security concerns and are equipped with the knowledge to address them in their coding practices.

References: The importance of training in secure software best practices is supported by industry resources such as the SAFECode's "Fundamental Practices for Secure Software Development" which emphasizes the need for application security control definition and management¹, and the NIST's Secure Software Development Framework (SSDF) which recommends integrating secure development practices throughout the software development lifecycle². Additional support for this category can be found in resources detailing effective secure development practices³⁴⁵.

NEW QUESTION # 109

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

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

Answer: C

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 # 110

Due to positive publicity from the release of the new software product, leadership has decided that it is in the best interests of the company to become ISO 27001 compliant. ISO 27001 is the leading international standard focused on information security.

Which security development life cycle deliverable is being described?

- A. Security strategy for M&A products
- B. External vulnerability disclosure response process
- C. **Post-release certifications**
- D. Third-party security review

Answer: C**NEW QUESTION # 111**

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

Answer: B

Explanation:

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.

NEW QUESTION # 112

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