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WGU D487 SECURE SOFTWARE DESIGN PRE-ASSESSMENT TEST WITH VERIFIED ANSWERS. LATEST 2024/2025

Which secure coding best practice uses well tested, publicly available algorithms to hide product data from unauthorized access? ☒ Cryptographic practices

Which design and development deliverable details the progress of personal information requirements created in earlier phases of the security development lifecycle? ☒ Privacy compliance report

Which secure coding best practice uses well tested, publicly available algorithms to hide product data from unauthorized access? ☒ Cryptographic practices

Which secure coding best practice ensures servers, frameworks, and system components are all running the latest approved versions? ☒ System configuration

What is a study of real-world software security initiatives organized so companies can measure their initiatives and understand how to evolve them over time? ☒ Building Security In Maturity Model (BSIMM)

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

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q59-Q64):

NEW QUESTION # 59

Recent vulnerability scans discovered that the organization's production web servers were responding to ping requests with server type, version, and operating system, which hackers could leverage to plan attacks.

How should the organization remediate this vulnerability?

- A. Ensure servers are regularly updated with the latest security patches
- B. Always uninstall or disable features that are not required
- C. Ensure servers are configured to return as little information as possible to network requests
- D. Access to configuration files is limited to administrators

Answer: C

Explanation:

To remediate the vulnerability of servers responding to ping requests with sensitive information, the organization should configure the servers to return as little information as possible to network requests. This practice is known as reducing the attack surface. By limiting the amount of information disclosed, potential attackers have less data to use when attempting to exploit vulnerabilities. Regular updates and patching (Option B) are also important, but they do not address the specific issue of information disclosure. Uninstalling or disabling unnecessary features (Option C) and restricting access to configuration files (Option D) are good security practices, but they do not directly prevent the leakage of server information through ping responses.

: The remediation steps are aligned with best practices in vulnerability management, which include finding, prioritizing, and fixing vulnerabilities, as well as configuring servers to minimize the exposure of sensitive information¹²³.

NEW QUESTION # 60

The software security team is using an automation tool that generates random data to input into every field in the new product and track results.

Which security testing technique is being used?

- A. Byte Code Analysis
- B. Fuzz Testing
- C. Black-Box Debugging
- D. Binary Code Analysis

Answer: B

NEW QUESTION # 61

Which threat modeling approach concentrates on things the organization wants to protect?

- A. Application-centric
- B. Server-centric
- C. Asset-centric
- D. Attacker-centric

Answer: C

Explanation:

The Asset-centric approach to threat modeling focuses on identifying and protecting the assets that are most valuable to an organization. This method prioritizes the assets themselves, assessing their sensitivity, value, and the impact on the business should they be compromised. It is a strategic approach that aims to safeguard the confidentiality, integrity, and availability of the organization's key assets.

References:

- * A Review of Asset-Centric Threat Modelling Approaches¹.
- * Approaches to Threat Modeling - are you getting what you need?².
- * What Is Threat Modeling? - CrowdStrike³.

NEW QUESTION # 62

Which software development model starts by specifying and implementing just a part of the software, which is then reviewed and identifies further requirements that are implemented by repeating the cycle?

- A. Code and fix
- B. Implementation
- C. Waterfall
- **D. Iterative**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The Iterative software development model fits this description. It involves specifying and implementing a portion of the software, reviewing it, gathering feedback, and refining or adding requirements in successive cycles. This approach supports evolving requirements and continuous improvement. Iterative models contrast with Waterfall (C), which is linear and sequential, with no repetition of phases. "Code and fix" (D) is an informal, ad hoc process lacking formal review cycles. Implementation (B) is a phase, not a model. The iterative approach is advocated in ISO/IEC 12207 and NIST guidelines for secure development, as it allows early detection and remediation of security issues by incremental design and testing.

References:

ISO/IEC 12207 Software Lifecycle Processes

NIST SP 800-64 Revision 2: Security Considerations in SDLC

Microsoft SDL Documentation

NEW QUESTION # 63

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. Third-Party Security Review**
- C. Post-Release Certifications
- D. External Vulnerability Disclosure Response Process

Answer: B

NEW QUESTION # 64

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