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WGUSecure Software Design (KEO1) Exam Sample Questions (Q75-Q80):

NEW QUESTION # 75

Which design and development deliverable contains the types of evaluations that were performed, how many times they were performed, and how many times they were re-evaluated?

- A. Security test execution report
- B. Remediation report
- C. Privacy compliance report
- **D. Security testing reports**

Answer: D

Explanation:

Security testing reports are the most likely deliverables to contain detailed records of evaluations, their frequency, and re-evaluations. Here's why:

* Purpose of Security Testing Reports: These reports document the results of security testing, including:

* Types of tests: Vulnerability scans, penetration tests, code reviews, etc.

* Frequency: How often tests were conducted (e.g., per build, per release cycle).

* Re-evaluations: If vulnerabilities were discovered, these reports will track whether and how often those were retested after remediation.

* Focus on Testing: The question specifically emphasizes evaluations, which aligns with the core content of security testing reports.

NEW QUESTION # 76

Using a web-based common vulnerability scoring system (CVSS) calculator, a security response team member performed an assessment on a reported vulnerability in the company's customer portal. The base score of the vulnerability was 9.9 and changed to 8.0 after adjusting temporal and environmental metrics.

Which rating would CVSS assign this vulnerability?

- **A. High severity**
- B. Low severity
- C. Medium severity
- D. Critical severity

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

CVSS scores are classified into severity levels based on numeric ranges. A base score of 9.9 falls within the Critical range (9.0-10.0), but after adjustment for temporal and environmental metrics, the score is 8.0, which falls into the High severity category (7.0-8.9). Therefore, the final rating assigned is High severity.

Medium severity corresponds to scores between 4.0 and 6.9, and low severity is below 4.0. This scoring methodology is defined by the FIRST Common Vulnerability Scoring System v3.1 Specification which guides how scores are adjusted to reflect real-world risk contexts.

References:

FIRST CVSS v3.1 Specification

OWASP Vulnerability Severity Classification

NIST National Vulnerability Database (NVD)

NEW QUESTION # 77

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

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

Answer: B

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 # 78

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

Answer: A

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 # 79

During fuzz testing of the new product, random values were entered into input elements. Search requests were sent to the correct API endpoint but many of them failed on execution due to type mismatches.

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

- A. Ensure all requests and responses are encrypted
- B. Ensure all user input data is validated prior to transmitting requests
- C. Ensure sensitive transactions can be traced through an audit log
- D. Ensure the contents of authentication cookies are encrypted

Answer: B

Explanation:

Validating user input data before it is processed by the application is a fundamental security control in software design. This process, known as input validation, ensures that only properly formed data is entering the workflow of the application, thereby preventing many types of attacks, including type mismatches as mentioned in the question. By validating input data, the application can reject any requests that contain unexpected or malicious data, reducing the risk of security vulnerabilities and ensuring the integrity of the system.

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Secure SDLC practices emphasize the importance of integrating security activities, such as creating security and functional requirements, code reviews, security testing, architectural analysis, and risk assessment, into the existing development workflow¹. A Secure Software Development Life Cycle (SSDLC) ensures that security is considered at every phase of the development process, from planning and design to coding, testing, deploying, and maintaining the software².

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