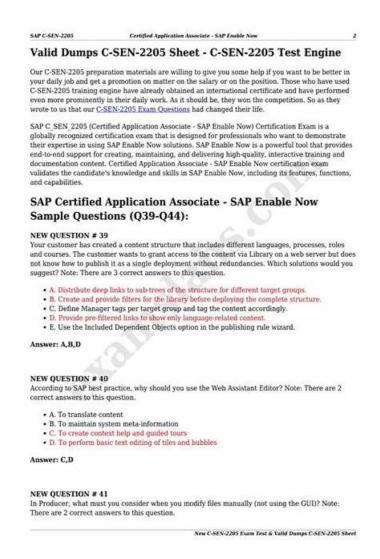
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WGUSecure Software Design (KEO1) Exam Sample Questions (Q40-Q45):

NEW QUESTION #40

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

Answer: D

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.

: 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 #41

The product team has been tasked with updating the user interface (UI). They will change the layout and also add restrictions to field lengths and what data will be accepted.

Which secure coding practice is this?

- A. Data protection
- B. Access control
- C. Input validation
- D. Communication security

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

This is an example of Input validation, which involves ensuring all user inputs conform to expected formats, lengths, and content before processing. Restricting field lengths and validating accepted data types prevents injection attacks, buffer overflows, and improper data handling. Access control (B) restricts user permissions, communication security (C) protects data in transit, and data protection (D) focuses on confidentiality and integrity of stored data. OWASP Secure Coding Practices and Microsoft SDL emphasize rigorous input validation as a first line of defense against many vulnerabilities.

References:

OWASP Secure Coding Practices - Input Validation

Microsoft SDL Secure Coding Guidelines

NIST SP 800-53: Security and Privacy Controls for Information Systems

NEW QUESTION #42

What is a countermeasure to the web application security frame (ASF) authentication threat category?

- A. Credentials and tokens are encrypted.
- B. Cookies have expiration timestamps.
- C. Sensitive information is scrubbed from error messages
- D. Role-based access controls restrict access

Answer: D

Explanation:

- * ASF Authentication Threats: The Web Application Security Frame (ASF) authentication category encompasses threats related to how users and systems prove their identity to the application. This includes issues like weak passwords, compromised credentials, and inadequate access controls.
- * Role-Based Access Control (RBAC): RBAC is a well-established security principle that aligns closely with addressing authentication threats. It involves assigning users to roles and granting those roles specific permissions based on the principle of least privilege. This limits the attack surface and reduces the impact of a compromised user account.

 Let's analyze the other options:
- * B. Credentials and tokens are encrypted: While vital for security, encryption primarily protects data at rest or in transit. It doesn't directly address authentication risks like brute-force attacks or weak password management.
- * C. Cookies have expiration timestamps: Expiring cookies are a good practice, but their primary benefit is session management rather than directly mitigating authentication-specific threats.
- \ast D. Sensitive information is scrubbed from error messages: While essential for preventing information leakage, this practice doesn't address the core threats within the ASF authentication category.
- References:
- * NIST Special Publication 800-53 Revision 4, Access Control (AC) Family: (https://csrc.nist.gov/publications/detail/sp/800-53/rev-4/final) Details the importance of RBAC as a cornerstone of access control.
- * The Web Application Security Frame (ASF): (https://patents.google.com/patent/US7818788B2/en) Outlines the ASF categories, with authentication being one of the primary areas.

NEW QUESTION #43

The software security group is conducting a maturity assessment using the Open Web Application Security Project Software Assurance Maturity Model (OWASP SAMM). They are currently focused on reviewing design artifacts to ensure they comply with organizational security standards.

Which OpenSAMM business function is being assessed?

- A. Verification
- B. Construction
- C. Governance
- D. Deployment

Answer: A

Explanation:

Comprehensive and Detailed In-Depth Explanation:

The Open Web Application Security Project (OWASP) Software Assurance Maturity Model (SAMM) is a framework designed to help organizations assess and improve their software security posture. SAMM is structured around five primary business functions: Governance, Design, Implementation, Verification, and Operations.

In this scenario, the focus is on reviewing design artifacts to ensure compliance with organizational security standards. This activity aligns with the Verification business function within SAMM. The Verification function encompasses security practices related to assessing and validating the security of software artifacts throughout the development lifecycle. Key practices under this function include:

- * Design Review: Evaluating design documents and models to identify potential security issues and ensure that security requirements are adequately addressed.
- * Code Review: Analyzing source code to detect security vulnerabilities and ensure adherence to secure coding standards.
- * Security Testing: Conducting various testing methodologies, such as penetration testing and vulnerability scanning, to identify and remediate security weaknesses in the software.

By focusing on the Verification function, the organization aims to proactively identify and address security concerns during the design and development phases, thereby enhancing the overall security posture of their software products.

References:

* OWASP SAMM - Verification

NEW QUESTION #44

Which software control test examines an application from a user perspective by providing a wide variety of input scenarios and inspecting the output?

- A. Static
- B. White box
- C. Dynamic
- D. Black box

Answer: D

Explanation:

The software control test that examines an application from a user perspective by providing a wide variety of input scenarios and inspecting the output is known as black box testing. This testing method focuses on the functionality of the application rather than its internal structures or workings. Testers provide inputs and examine outputs without knowing how and where the inputs are worked upon. It's designed to test the system's external behavior.

- * Black box testing is used to verify that the system meets the requirements and behaves as expected in various scenarios, including edge cases and incorrect input data. It helps in identifying discrepancies between the system's actual functionality and its specified requirements.
- * This type of testing is applicable across various levels of software testing, including unit, integration,
- * system, and acceptance testing. It is particularly useful for validating user stories and use cases during the software development process.
- * Since black box testing treats the software as a "black box", it does not require the tester to have knowledge of the programming languages or the system's implementation. This allows testers to objectively test the software's behavior and performance. References: The concept of black box testing is well-documented and is a standard practice in secure software design, as outlined by sources such as LambdaTest1 and other industry best practices.

NEW QUESTION #45

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