


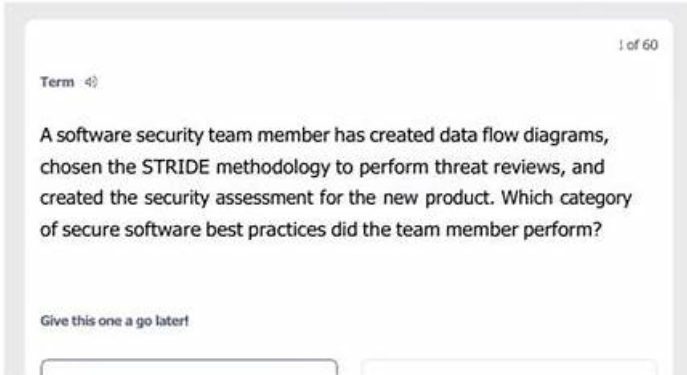
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SECURE SOFTWARE DESIGN (KEO1) (PKEO)

Questions and answers



Term 40 1 of 60

A software security team member has created data flow diagrams, chosen the STRIDE methodology to perform threat reviews, and created the security assessment for the new product. Which category of secure software best practices did the team member perform?

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q66-Q71):

NEW QUESTION # 66

What are the three primary goals of the secure software development process?

- A. Confidentiality, integrity, and availability
- B. Performance, reliability, and maintainability
- C. Cost, speed to market, and profitability
- D. Redundancy, scalability, and portability

Answer: A

Explanation:

The three primary goals of the secure software development process, often referred to as the CIA triad, are confidentiality, integrity, and availability. These principles form the cornerstone of security considerations in the software development life cycle (SDLC).

* Confidentiality ensures that sensitive information is accessed only by authorized individuals and systems. This involves implementing access controls and encryption to protect data from unauthorized access.

* Integrity refers to maintaining the accuracy and consistency of data across its lifecycle. This means that the data is not altered or tampered with by unauthorized entities. Techniques like checksums and digital signatures help ensure data integrity.

* Availability ensures that information and resources are accessible to authorized users when needed. This involves creating resilient systems that can withstand attacks and recover quickly from any disruptions.

By integrating these security goals into each phase of the SDLC, from planning and design to development, testing, and maintenance, organizations can create more secure software systems that are resilient to cyber threats.

References: The information provided here is verified as per the Secure Software Design documents and best practices in the field, as outlined by sources such as Snyk1, GeeksforGeeks2, and SAFECODE3.

NEW QUESTION # 67

A recent vulnerability scan uncovered an XML external entity (XXE) flaw that could allow attackers to return the contents of a system file by including a specific payload in an XML request.

How should the organization remediate this vulnerability?

- A. Ensure audit trails exist for all sensitive transactions
- B. Disable resolution of external entities in the parsing library
- C. Enforce role-based authorization in all application layers
- D. Ensure authentication cookies are encrypted

Answer: D

Explanation:

Security change management within the change management process involves ensuring that any changes, including updates or modifications to software, do not introduce new vulnerabilities and are in line with security policies. The question about securing remote administration directly reflects this component because it addresses the security considerations that must be managed when changes are made to how software is accessed and controlled remotely. This includes implementing secure protocols, authentication methods, and monitoring to prevent unauthorized access or breaches, which are crucial when managing changes in a secure manner.

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Change management in cybersecurity emphasizes the structured approach to implementing alterations in security protocols, technologies, and processes, ensuring systematic assessment and monitoring1.

The role of change management in cybersecurity includes decisions about network access and ensuring the right person can access

the right information at the right time, which aligns with securing remote administration².

Seminal change management models in cybersecurity, like PROSCI's ADKAR model, guide individuals through the change process, managing resistance and identifying training needs, which is relevant to securing remote administration³.

NEW QUESTION # 68

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 the contents of authentication cookies are encrypted
- D. Ensure sensitive transactions can be traced through an audit log

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.

References:

- * 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.

NEW QUESTION # 69

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 claims intake component. The base score of the vulnerability was 3.5 and changed to 5.9 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:

The Common Vulnerability Scoring System (CVSS) uses the following ranges to determine the severity rating of a vulnerability:

- * 0.1 - 3.9: Low severity
- * 4.0 - 6.9: Medium severity
- * 7.0 - 8.9: High severity
- * 9.0 - 10.0: Critical severity

Since the adjusted score for the vulnerability is 5.9, it falls within the High severity range.

References:

- * CVSS v3.1 Specification Document - FIRST: <https://www.first.org/cvss/specification-document>
- * National Vulnerability Database (NVD) - NIST: <https://nvd.nist.gov/vuln-metrics/cvss>

NEW QUESTION # 70

The security software team has cloned the source code repository of the new software product so they can perform vulnerability testing by modifying or adding small snippets of code to see if they can cause unexpected behavior and application failure.

Which security testing technique is being used?

- A. Binary Fault Injection
- B. Fuzz Testing
- C. Dynamic Code Analysis
- **D. Source-Code Fault Injection**

Answer: D

NEW QUESTION # 71

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