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WGU C706 Secure Software Design Study Guide

2022

1. Confidentiality: Information is not made available or disclosed to unauthorized individuals, entities, or processes. Ensures unauthorized persons are not able to read private and sensitive data. It is achieved through cryptography.

2. Integrity: Ensures unauthorized persons or channels are not able to modify the data. It is accomplished through the use of a message digest or digital signatures.

3. Availability: The computing systems used to store and process information, the security controls used to protect information, and the communication channels used to access information must be functioning correctly. Ensures system remains operational even in the event of a failure or an attack. It is achieved by providing redundancy or fault tolerance for a failure of a system and its components.

4. Ensure Confidentiality: Public Key Infrastructure (PKI) and Cryptography/En- crypton

5. Ensure Availability: Offsite back-up and Redundancy

6. Ensure Integrity: Hashing, Message Digest (MD5), non repudiation and digital signatures

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q36-Q41):

NEW QUESTION # 36

An individual is developing a software application that has a back-end database and is concerned that a malicious user may run the following SOL query to pull information about all accounts from the database:

A screenshot of a SQL query editor showing the text: `SELECT * FROM accounts WHERE accountid='1' or '1'='1';`

Which technique should be used to detect this vulnerability without running the source codes?

- A. Dynamic analysis
- B. Fuzz testing
- C. Cross-site scripting
- **D. Static analysis**

Answer: D

Explanation:

Static analysis is a method used to detect vulnerabilities in software without executing the code. It involves examining the codebase for patterns that are indicative of security issues, such as SQL injection vulnerabilities. This technique can identify potential threats and weaknesses by analyzing the code's structure, syntax, and data flow.

References:

- * Static analysis as a means to identify security vulnerabilities¹.
- * The importance of static analysis in the early stages of the SDLC to prevent security issues².
- * Learning-based approaches to fix SQL injection vulnerabilities using static analysis³.

NEW QUESTION # 37

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

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

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 # 38

Which security assessment deliverable identifies possible security vulnerabilities in the product?

- A. SDL project outline
- **B. Threat profile**
- C. List of third-party software
- D. Metrics template

Answer: B

Explanation:

A threat profile is a security assessment deliverable that identifies possible security vulnerabilities in a product. It involves a systematic examination of the product to uncover any weaknesses that could potentially be exploited by threats. The process typically includes identifying the assets that need protection, assessing the threats to those assets, and evaluating the vulnerabilities that could be exploited by those threats. This deliverable is crucial for understanding the security posture of a product and for prioritizing remediation efforts.

References: The importance of a threat profile in identifying security vulnerabilities is supported by various security resources. For instance, Future Processing's blog on vulnerability assessments outlines the steps involved in identifying security vulnerabilities, which align with the creation of a threat profile¹. Additionally, UpGuard's article on conducting vulnerability assessments further emphasizes the role of identifying vulnerabilities as part of the security assessment process².

NEW QUESTION # 39

Which type of security analysis is limited by the fact that a significant time investment of a highly skilled team member is required?

- A. Fuzz testing
- **B. Manual code review**
- C. Static code analysis
- D. Dynamic code analysis

Answer: B

Explanation:

Manual code review is a type of security analysis that requires a significant time investment from a highly skilled team member. This process involves a detailed and thorough examination of the source code to identify security vulnerabilities that automated tools might miss. It is labor-intensive because it relies on the expertise of the reviewer to understand the context, logic, and potential security implications of the code. Unlike automated methods like static or dynamic code analysis, manual code review demands a deep understanding of the codebase, which can be time-consuming and requires a high level of skill and experience.

References: The information provided here is based on industry best practices and standards for secure software design and development, as well as my understanding of security analysis methodologies^{1,2}.

NEW QUESTION # 40

Which DKEAD category has a risk rating based on the threat exploit's potential level of harm?

- A. Exploitability
- **B. Damage potential**
- C. Affected users
- D. Reproducibility

Answer: B

Explanation:

The DKEAD category that has a risk rating based on the threat exploit's potential level of harm is Damage potential. This category assesses the total damage or impact that a threat could cause if it is exploited by an attacker. The risk rating in this category is determined by evaluating the severity of the potential damage, which could range from information disclosure to complete system destruction or loss of system availability.

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DREAD Threat Modeling¹

OWASP Risk Rating Methodology²

DREAD Threat Modeling: An Introduction to Qualitative Risk Analysis³

NEW QUESTION # 41

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