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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 (Q91-Q96):

NEW QUESTION # 91

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

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

References:

* Understanding of HTTP and HTTPS protocols¹².

* Definition and role of proxy servers³.

NEW QUESTION # 92

Which SDL security goal is defined as ensuring timely and reliable access to and use of information?

- A. Confidentiality
- B. Integrity
- **C. Availability**
- D. Information security

Answer: C

Explanation:

The term 'availability' in the context of Secure Software Development Lifecycle (SDL) refers to ensuring that systems, applications, and data are accessible to authorized users when needed. This means that the information must be timely and reliable, without undue delays or interruptions. Availability is a critical aspect of security, as it ensures that the software functions correctly and efficiently, providing users with the information they need to perform their tasks.

References:

* The definition of availability as per the National Institute of Standards and Technology (NIST) Glossary¹.

* The Microsoft Security Development Lifecycle (SDL) which emphasizes the importance of availability in secure software design².

* General principles of Secure Software Development Life Cycle (SSDLC) that include availability as a key security goal³.

NEW QUESTION # 93

The organization is moving from a waterfall to an agile software development methodology, so the software security group must adapt the security development life cycle as well. They have decided to break out security requirements and deliverables to fit better in the iterative life cycle by defining every-sprint requirements, one-time requirements, bucket requirements, and final security review requirements.

Which type of requirement states that the team must identify primary security and privacy controls?

- A. Every-sprint requirement
- B. Final security review requirement
- **C. One-time requirement**

- D. Bucket requirement

Answer: C

Explanation:

The OpenSAMM business function being assessed is Verification. This function involves activities related to reviewing and testing to ensure that the software meets the required security standards and practices. In the context of the question, the software security group's focus on reviewing design artifacts to ensure compliance with organizational security standards falls under the Verification function. This includes tasks such as design review, implementation review, and security testing, which are all aimed at verifying that the security measures and controls are correctly integrated into the software design.

References: The information is verified as per the OWASP SAMM documentation, which outlines the Verification function as a core business function that encompasses activities like design review, which is directly related to the assessment of design artifacts mentioned in the question¹.

NEW QUESTION # 94

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

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

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.

: 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 # 95

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. Disable resolution of external entities in the parsing library
- B. Ensure audit trails exist for all sensitive transactions
- 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 # 96

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