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WGU C706 - Secure Software Design Exam 2022/2023

1. What is Extreme Programming (XP) method of the Agile SDLC Model (answer) - Small teams working in the same room to encourage communication, only required documentation created.

2. What is Crystal Clear for (answer) For noncritical projects using discretionary money, requiring up to six or eight people. One team same room. Max release 2 months.

3. What is Crystal Orange for (answer) Adequate for critical, but not life-critical, projects requiring up to 40 people. Different teams. From 2 to 4 months, two user viewings per release.

4. How does a SQL Injection attack work (answer) takes advantage of a vulnerability that appears when a web application fails to properly filter or validate data a user enters on a web page to order a product or communicate with a company. An attacker can send a malformed SQL query to the underlying database to break into it, plant malicious code or access other systems.

5. Agility & Discipline of XP Method (answer) Agility - High, Discipline required - High

6. Agility & Discipline of Crystal Clear Method (answer) Agility - High, Discipline re- quired - Low

7. Agility & Discipline of Crystal Orange Method (answer) Agility - Medium, Discipline required - Medium

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q10-Q15):

NEW QUESTION # 10

While performing functional testing of the new product from a shared machine, a QA analyst closed their browser window but did not logout of the application. A different QA analyst accessed the application an hour later and was not prompted to login. They then noticed the previous analyst was still logged into the application.

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

- A. Ensure role-based access control is enforced for access to all resources
- B. Ensure no sensitive information is stored in plain text in cookies
- C. Ensure strong password policies are enforced
- **D. Ensure user sessions timeout after short intervals**

Answer: D

Explanation:

The issue described involves a session management vulnerability where the user's session remains active even after the browser window is closed, allowing another user on the same machine to access the application without logging in. To prevent this security risk, it's essential to adjust the session management controls to include an automatic timeout feature. This means that after a period of inactivity, or when the browser window is closed, the session should automatically expire, requiring a new login to access the application. This adjustment ensures that even if a user forgets to log out, their session won't remain active indefinitely, reducing the risk of unauthorized access.

References:

* Secure SDLC practices emphasize the importance of security at every stage of the software development life cycle, including the implementation of proper session management controls¹².

* Best practices for access control in security highlight the significance of managing session timeouts to prevent unauthorized access³.

* Industry standards and guidelines often recommend session timeouts as a critical security control to protect against unauthorized access⁴.

NEW QUESTION # 11

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

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

Answer: C

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 # 12

Which security assessment deliverable defines measures that can be periodically reported to management?

- A. Product Risk Profile
- **B. Metrics Template**
- C. Threat Profile
- D. SDL Project Outline

Answer: B

NEW QUESTION # 13

The security team has a library of recorded presentations that are required viewing for all new developers in the organization. The video series details organizational security policies and demonstrates how to define, test for, and code for possible threats.

Which category of secure software best practices does this represent?

- A. Code review
- **B. Training**
- C. Attack models
- D. Architecture analysis

Answer: B

Explanation:

The category of secure software best practices being described is Training. This is because the focus is on educating new developers about organizational security policies and coding practices to mitigate potential threats. Training is a proactive approach to ensure that developers are aware of security concerns and are equipped with the knowledge to address them in their coding practices.

: The importance of training in secure software best practices is supported by industry resources such as the SAFECode's "Fundamental Practices for Secure Software Development" which emphasizes the need for application security control definition and management¹, and the NIST's Secure Software Development Framework (SSDF) which recommends integrating secure development practices throughout the software development lifecycle². Additional support for this category can be found in resources detailing effective secure development practices^{3,4,5}.

NEW QUESTION # 14

Which type of security analysis is performed by injecting malformed data into open interfaces of an executable or running application and is most commonly executed during the testing or deployment phases of the SDLC?

- **A. Fuzz Testing**
- B. Manual Code Review
- C. Dynamic Analysis
- D. Static Analysis

Answer: A

NEW QUESTION # 15

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