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D487 - Secure Software Design Exam Questions and Answers.

SDLC Phase 1 - Correct Answer planning - a vision and next steps are created

SDLC Phase 2 - Correct Answer requirements - necessary software requirements are determined

SDLC Phase 3 - Correct Answer design - requirements are prepared for the technical design

SDLC Phase 4 - Correct Answer implementation - the resources involved in the application from a known resource are determined

SDLC Phase 5 - Correct Answer testing - software is tested to verify its functions through a known environment

SDLC Phase 6 - Correct Answer deployment - security is pushed out

SDLC Phase 7 - Correct Answer maintenance - ongoing security monitoring is implemented

SDLC Phase 8 - Correct Answer end of life - the proper steps for removing software completely are considered

BSIMM - Correct Answer a study of real-world software security that allows you to develop your software security over time

OWASP SAMM - Correct Answer flexible framework for building security into a software development organization

Static Analysis - Correct Answer the analysis of computer software that is performed without executing programs

Dynamic Analysis - Correct Answer the analysis of computer software that is performed when executing programs on a real or virtual processor in real time

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q48-Q53):

NEW QUESTION # 48

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

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

Answer: D

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.

:

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 # 49

Which privacy impact statement requirement type defines processes to keep personal information updated and accurate?

- **A. Data integrity requirements**
- B. Personal information retention requirements
- C. Collection of personal information requirements
- D. Access requirements

Answer: A

Explanation:

Data integrity requirements within a privacy impact statement ensure that personal information is maintained in an accurate and up-to-date manner. This involves establishing processes to regularly review and update personal data, as well as correct any inaccuracies. These requirements are crucial for maintaining the trustworthiness of the data and ensuring that decisions made based on this information are sound and reliable.

References:

* The Office of the Privacy Commissioner of Canada's guide on the Privacy Impact Assessment process emphasizes the importance of accuracy and currency of personal information¹.

* The European Union's General Data Protection Regulation (GDPR) outlines principles for data processing, including the necessity for data to be accurate and kept up to date².

* The General Data Protection Regulation (GDPR) also includes provisions for data protection impact assessments, which involve documenting processes before starting data processing³.

NEW QUESTION # 50

The security team is reviewing whether changes or open issues exist that would affect requirements for handling personal information documented in earlier phases of the development life cycle.

Which activity of the Ship SDL phase is being performed?

- A. Open-source licensing review
- **B. Final privacy review**
- C. Final security review
- D. Vulnerability scan

Answer: B

Explanation:

The activity being performed is the final privacy review. This step is crucial in the Ship phase of the Security Development Lifecycle (SDL), where the security team assesses if there are any changes or unresolved issues that could impact the requirements for handling personal information. These requirements are typically documented in the earlier stages of the development lifecycle, and the final privacy review ensures that the software complies with these requirements before release.

: The explanation is based on the best practices outlined in the SDL Activities and Best Practices, which detail the importance of conducting a final privacy review during the Ship phase to ensure that all privacy issues have been addressed¹².

NEW QUESTION # 51

Developers have finished coding, and changes have been peer-reviewed. Features have been deployed to a pre- production environment so that analysts may verify that the product is working as expected.

Which phase of the Software Development Life Cycle (SDLC) is being described?

- A. Deployment
- **B. Testing**
- C. Requirements
- D. Design

Answer: B

Explanation:

Comprehensive and Detailed In-Depth Explanation:

The scenario describes a stage where the developed features are deployed to a pre-production environment for verification by analysts. This aligns with the Testing phase of the Software Development Life Cycle (SDLC).

In the Testing phase, the system undergoes various evaluations to ensure it meets the specified requirements and functions correctly. This includes deploying the software in an environment that simulates production to identify and rectify defects before the actual deployment. The primary goal is to validate the software's quality and performance.

According to the SDLC framework, after the development (coding) phase, the next step is Testing, where the system is rigorously evaluated. This phase is crucial to detect issues that may not have been apparent during development and to ensure that the software operates as intended in a controlled setting before live deployment.

References:

* Software Development Life Cycle Documentation

NEW QUESTION # 52

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

```
SELECT * FROM accounts WHERE account_id = 1 or '1'='1';
```

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

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

Answer: B

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.

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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 # 53

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