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WGU D487 SECURE SOFTWARE DESIGN PRE-ASSESSMENT TEST WITH VERIFIED ANSWERS. LATEST 2024/2025

Which secure coding best practice uses well tested, publicly available algorithms to hide product data from unauthorized access? Cryptographic practices

Which design and development deliverable details the progress of personal information requirements created in earlier phases of the security development lifecycle? Privacy compliance report

Which secure coding best practice uses welltested, publicly available algorithms to hide product data from unauthorized access? Cryptographic practices

Which secure coding best practice ensures servers, frameworks, and system components are all running the latest approved versions? System configuration

What is a study of real-world software security initiatives organized so companies can measure their initiatives and understand how to evolve them over time? Building Security In Maturity Model (BSIMM)

What is the analysis of computer software that is performed without executing programs? Static analysis

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WGUSecure Software Design (KEO1) Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Design Pattern Selection and Implementation: This section of the exam measures skills of Software Developers and Software Architects and covers the selection and implementation of appropriate design patterns. Learners examine common design patterns and their applications in software development. The material focuses on understanding when and how to apply specific patterns to solve recurring design problems and improve code organization.
Topic 2	<ul style="list-style-type: none">Reliable and Secure Software Systems: This section of the exam measures skills of Software Engineers and Security Architects and covers building well structured, reliable, and secure software systems. Learners explore principles for creating software that performs consistently and protects against security threats. The content addresses methods for implementing reliability measures and security controls throughout the software development lifecycle.
Topic 3	<ul style="list-style-type: none">Software Architecture Types: This section of the exam measures skills of Software Architects and covers various architecture types used in large scale software systems. Learners explore different architectural models and frameworks that guide system design decisions. The content addresses how to identify and evaluate architectural patterns that best fit specific project requirements and organizational needs.

WGUSecure Software Design (KEO1) Exam Sample Questions (Q107-Q112):

NEW QUESTION # 107

Features have been developed and fully tested, the production environment has been created, and leadership has approved the release of the new product. Technicians have scheduled a time and date to make the product available to customers.

Which phase of the software development lifecycle (SDLC) is being described?

- A. Deployment
- B. Testing
- C. Maintenance
- D. End of life

Answer: A

Explanation:

The phase being described is the Deployment phase of the SDLC. This phase involves making the software available for use by customers after it has been developed, tested, and approved for release. It includes the installation of the software in the production environment, ensuring that all features are operational as intended, and obtaining formal approval from leadership to proceed with making the product available to end-users. The deployment phase is critical as it transitions the software from a development setting to a real-world operational environment.

References:

* SDLC Deployment Phase - A Step by Step Guide1

* Understanding the SDLC: Software Development Lifecycle Explained2

NEW QUESTION # 108

The software security team prepared a detailed schedule mapping security development lifecycle phases to the type of analysis they

will execute.

Which design and development deliverable aid the team prepare?

- A. Updated threat modeling artifacts
- B. Design security review
- C. Privacy implementation assessment results
- D. **Security test plans**

Answer: D

Explanation:

The deliverable that would aid a software security team in preparing a detailed schedule mapping security development lifecycle phases to the type of analysis they will execute is Security test plans. These plans are crucial as they outline the testing strategies and specific security tests that will be conducted during the development lifecycle to ensure the software meets the required security standards.

* Security test plans are developed after the requirements and design phases and are used throughout the implementation, verification, and release phases. They include detailed instructions for security testing, criteria for success, and the types of security testing to be performed, such as static and dynamic analysis, penetration testing, and code review.

* These plans are living documents that should be updated as new threats are identified and as the project evolves. They ensure that all team members understand the security goals, the risks, and the measures that need to be taken to mitigate those risks.

* By having a well-defined security test plan, the team can ensure that security is not an afterthought but is integrated into every phase of the software development lifecycle, thus producing more secure software.

References: The importance of security test plans in the software development lifecycle is supported by best practices and guidelines from sources such as Microsoft's Security Development Lifecycle¹ and Snyk's Secure Software Development Life Cycle principles².

NEW QUESTION # 109

Which secure software design principle assumes attackers have the source code and specifications of the product?

- A. Psychological Acceptability
- B. **Open Design**
- C. Total Mediation
- D. Separation of Privileges

Answer: B

NEW QUESTION # 110

The Chief Information Security Officer (CISO) has recommended contracting with external experts to perform annual reviews of the enterprise's software products, including penetration testing.

Which post-release deliverable is being described?

- A. Post-Release Certifications
- B. Security Strategy for Legacy Code
- C. **Third-Party Security Review**
- D. External Vulnerability Disclosure Response Process

Answer: C

NEW QUESTION # 111

In which step of the PASTA threat modeling methodology is vulnerability and exploit analysis performed?

- A. **Attack modeling**
- B. Define technical scope
- C. Application decomposition
- D. Define objectives

Answer: A

Explanation:

In the PASTA (Process for Attack Simulation and Threat Analysis) threat modeling methodology, vulnerability and exploit analysis is performed during the Attack modeling step. This step involves identifying potential threats and vulnerabilities within the system and understanding how they could be exploited.

* Attack modeling is a critical phase where the focus is on simulating attacks based on identified vulnerabilities. It allows for a deep understanding of the threats in the context of the application's architecture and system design.

* During this phase, security analysts use their knowledge of the system's technical scope and application decomposition to simulate how an attacker could exploit the system's vulnerabilities. This helps in prioritizing the risks and planning appropriate mitigation strategies.

* The goal of attack modeling is not just to identify vulnerabilities but also to understand the potential impact of exploits on the system and the business, which is essential for developing a robust security posture.

References: The information provided is aligned with the PASTA methodology as described in resources such as VerSprite1 and the OWASP Foundation2. These sources detail the seven stages of PASTA, with attack modeling being a key component of the process.

NEW QUESTION # 112

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