

Secure-Software-Design Detailed Study Dumps | Secure-Software-Design Dumps



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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
Topic 2	<ul style="list-style-type: none">Large Scale Software System Design: This section of the exam measures skills of Software Architects and covers the design and analysis of large scale software systems. Learners investigate methods for planning complex software architectures that can scale and adapt to changing requirements. The content addresses techniques for creating system designs that accommodate growth and handle increased workload demands.
Topic 3	<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 4	<ul style="list-style-type: none">Software System Management: This section of the exam measures skills of Software Project Managers and covers the management of large scale software systems. Learners study approaches for overseeing software projects from conception through deployment. The material focuses on coordination strategies and management techniques that ensure successful delivery of complex software solutions.

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q86-Q91):

NEW QUESTION # 86

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.

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 # 87

Which type of manual code review technique is being used when the reviewer starts at an input control and traces its value through the application to each of the value's outputs?

- A. Control flow analysis
- B. Threat analysis
- C. Risk analysis
- D. Data flow analysis

Answer: D

Explanation:

Data flow analysis is a manual code review technique where the reviewer traces the path of data from its entry point in the software (input control) through its processing and manipulation within the application, to its exit points (outputs). This technique is used to ensure that the data is handled securely throughout its lifecycle within the application and to identify any potential security vulnerabilities that may arise from improper data handling or processing12

NEW QUESTION # 88

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

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

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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 # 89

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

Answer: A

NEW QUESTION # 90

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 # 91

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