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WGU D487 PRE-ASSESSMENT: SECURE SOFTWARE DESIGN (KEO1) (PKEO)

Exam Questions With Revised Correct Answers

BEST UPDATED!!

1) What are the 11 security design principles? - ANSWER Least privilege, Separation of duties, Defense in depth, fail-safe, Economy of mechanism, Complete mediation, Open Design, Least common mechanism, Psychological acceptability, Weakest link, Leveraging existing components

2) Software Security Maturity Models and the SDL

- ANSWER OWASP's Open Software Assurance Maturity Model (OpenSAMM)
Building Security in Maturity Model

3) OpenSAMM: Governance

- ANSWER is centered on the processes and activities related to how an organization manages overall software development activities. More specifically, this includes

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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">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">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.

WGUSecure Software Design (KEO1) Exam Sample Questions (Q80-Q85):

NEW QUESTION # 80

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

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

Answer: B

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.

: 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 # 81

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

Answer: C

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 practices³⁴⁵.

NEW QUESTION # 82

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

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

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 # 83

A new product does not display personally identifiable information, will not let private documents be printed, and requires elevation of privilege to retrieve archive documents. Which secure coding practice is this describing?

- A. Input validation
- B. Access control
- C. Data protection
- D. Authentication

Answer: B

Explanation:

The secure coding practice being described is Access Control. This practice ensures that access to data and features within a system

is restricted and controlled. The description given indicates that the product has mechanisms to prevent the display of personally identifiable information (PII), restrict the printing of private documents, and require elevated privileges to access archived documents. These are all measures to control who has access to what data and under what circumstances, which is the essence of access control.

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ISO/IEC 27018 Code of Practice for Protecting Personal Data in the Cloud1.

NIST SP 800-122, Guide to Protecting the Confidentiality of Personally Identifiable Information (PII)2.

ISO/IEC 29151:2017, Code of practice for personally identifiable information protection3.

NEW QUESTION # 84

The software security group is conducting a maturity assessment using the Building Security in Maturity Model (BSIMM). They are currently focused on reviewing attack models created during recently completed initiatives.

Which BSIMM domain is being assessed?

- A. Software security development life cycle (SSDL) touchpoints
- **B. Intelligence**
- C. Deployment
- D. Governance

Answer: B

Explanation:

The Intelligence domain in the Building Security in Maturity Model (BSIMM) focuses on gathering and using information about software security. This includes understanding the types of attacks that are possible against the software being developed, which is why reviewing attack models falls under this domain. The BSIMM domain of Intelligence involves creating models of potential attacks on software (attack models), analyzing actual attacks that have occurred (attack intelligence), and sharing this information to improve security measures. By reviewing attack models, the software security group is essentially assessing the organization's ability to anticipate and understand potential security threats, which is a key aspect of the Intelligence domain.

: The references used to verify this answer include the official BSIMM documentation and related resources that describe the various domains and their activities within the BSIMM framework12345.

NEW QUESTION # 85

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