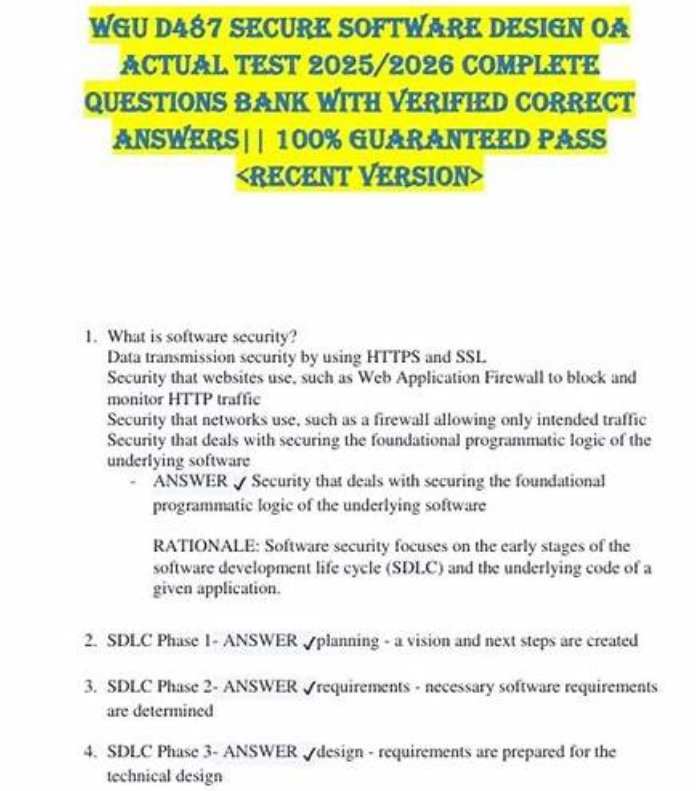
Secure-Software-Design Test Voucher, Test Secure-Software-Design Questions


WGU D487 SECURE SOFTWARE DESIGN OA ACTUAL TEST 2025/2026 COMPLETE QUESTIONS BANK WITH VERIFIED CORRECT ANSWERS|| 100% GUARANTEED PASS <RECENT VERSION>

1. What is software security?
   Data transmission security by using HTTPS and SSL
   Security that websites use, such as Web Application Firewall to block and monitor HTTP traffic
   Security that networks use, such as a firewall allowing only intended traffic
   Security that deals with securing the foundational programmatic logic of the underlying software
   - ANSWER ✓ Security that deals with securing the foundational programmatic logic of the underlying software

     RATIONALE: Software security focuses on the early stages of the software development life cycle (SDLC) and the underlying code of a given application.

2. SDLC Phase 1- ANSWER ✓planning - a vision and next steps are created
3. SDLC Phase 2- ANSWER ✓requirements - necessary software requirements are determined
4. SDLC Phase 3- ANSWER ✓design - requirements are prepared for the technical design

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(KEO1) Exam Practice Test Training

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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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	• 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 (Q81-Q86):

NEW QUESTION # 81
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. Deployment
- B. Governance
- C. Intelligence
- D. Software security development life cycle (SSDL) touchpoints

Answer: C

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 # 82
The software security group is conducting a maturity assessment using the Open Web Application Security Project Software Assurance Maturity Model (OWASP SAMM). They are currently focused on reviewing design artifacts to ensure they comply with organizational security standards.
Which OpenSAMM business function is being assessed?

- A. Deployment
- B. Governance
- C. Verification
- D. Construction

Answer: C

Explanation:
Comprehensive and Detailed In-Depth Explanation:
The Open Web Application Security Project (OWASP) Software Assurance Maturity Model (SAMM) is a framework designed to help organizations assess and improve their software security posture. SAMM is structured around five primary business functions: Governance, Design, Implementation, Verification, and Operations.
In this scenario, the focus is on reviewing design artifacts to ensure compliance with organizational security standards. This activity aligns with the Verification business function within SAMM. The Verification function encompasses security practices related to assessing and validating the security of software artifacts throughout the development lifecycle. Key practices under this function include:
* Design Review: Evaluating design documents and models to identify potential security issues and ensure that security requirements are adequately addressed.
* Code Review: Analyzing source code to detect security vulnerabilities and ensure adherence to secure coding standards.
* Security Testing: Conducting various testing methodologies, such as penetration testing and vulnerability scanning, to identify and remediate security weaknesses in the software.
By focusing on the Verification function, the organization aims to proactively identify and address security concerns during the design and development phases, thereby enhancing the overall security posture of their software products.
References:
* OWASP SAMM - Verification

NEW QUESTION # 83
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. Static Analysis
- C. Dynamic Analysis
- D. Manual Code Review

Answer: A

NEW QUESTION # 84
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 strong password policies are enforced
- B. Ensure user sessions timeout after short intervals
- C. Ensure no sensitive information is stored in plain text in cookies
- D. Ensure role-based access control is enforced for access to all resources

Answer: B

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 # 85
The product development team is preparing for the production deployment of recent feature enhancements.
One morning, they noticed the amount of test data grew exponentially overnight. Most fields were filled with random characters, but some structured query language was discovered.
Which type of security development lifecycle (SDL) tool was likely being used?

- A. Static analysis
- B. Dynamic analysis
- C. Threat model
- D. Fuzzing

Answer: D

Explanation:
Comprehensive and Detailed In-Depth Explanation:
The scenario described indicates that the system was subjected to inputs containing random data and some structured query language (SQL) statements, leading to an exponential increase in test data. This behavior is characteristic of fuzzing, a testing technique used to identify vulnerabilities by inputting a wide range of random or unexpected data into the system.
Fuzzing aims to discover coding errors and security loopholes by bombarding the application with malformed or unexpected inputs, observing how the system responds. The presence of random characters and SQL statements suggests that the fuzzing tool was testing for vulnerabilities such as SQL injection by injecting various payloads into the system.
This approach is part of the Verification business function in the OWASP SAMM, specifically within the Security Testing practice. Security testing involves evaluating the software to identify vulnerabilities that could be exploited, and fuzzing is a common technique employed in this practice to ensure the robustness and security of the application.
References:
* OWASP SAMM: Verification - Security Testing

NEW QUESTION # 86
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