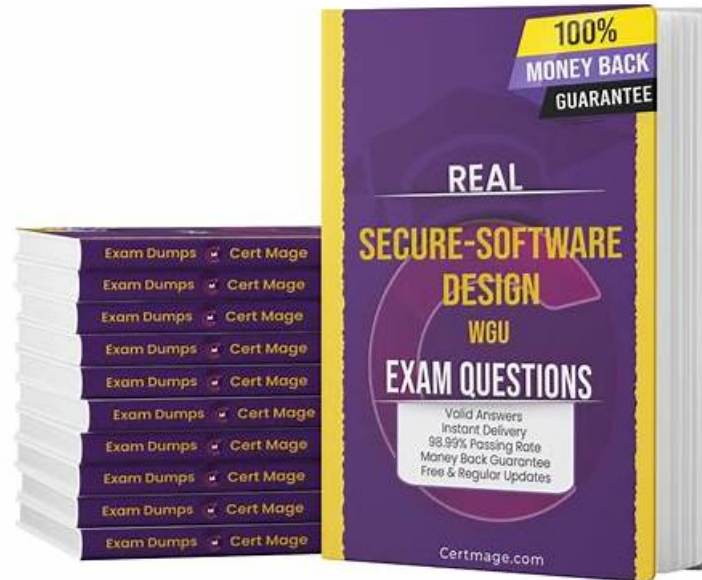


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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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 Architecture and Design: This module covers topics in designing, analyzing, and managing large scale software systems. Students will learn various architecture types, how to select and implement appropriate design patterns, and how to build well structured, reliable, and secure software systems.
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WGUSecure Software Design (KEO1) Exam Sample Questions (Q85-Q90):

NEW QUESTION # 85

The software security team is performing security testing for a new software product that is close to production release. They are concentrating on integrations between the new product and database servers, web servers, and web services.

Which security testing technique is being used?

- **A. Fuzz testing**
- B. Binary code analysis
- C. Binary fault injection
- D. Dynamic code analysis

Answer: A

Explanation:

Fuzz testing is the ideal technique in this scenario. Here's why:

* **Focus on Integrations:** The scenario emphasizes testing links between the software, databases, web servers, and web services.

Fuzz testing is specifically designed to find vulnerabilities in how software handles data and communication between components.

* **Pre-release Testing:** The product being close to release indicates a critical need to identify security flaws before public deployment.

Fuzz testing is effective in uncovering unexpected behavior and potential vulnerabilities.

* **Fuzz Testing Targets:** Fuzz testing works by injecting invalid or unexpected data into interfaces (like those between databases, web components, etc.) to observe how the software reacts. This helps expose potential security gaps and weaknesses.

NEW QUESTION # 86

What is a countermeasure to the web application security frame (ASF) authentication threat category?

- A. Credentials and tokens are encrypted.
- B. Sensitive information is scrubbed from error messages
- **C. Role-based access controls restrict access**
- D. Cookies have expiration timestamps.

Answer: C

Explanation:

* **ASF Authentication Threats:** The Web Application Security Frame (ASF) authentication category encompasses threats related to how users and systems prove their identity to the application. This includes issues like weak passwords, compromised credentials, and inadequate access controls.

* **Role-Based Access Control (RBAC):** RBAC is a well-established security principle that aligns closely with addressing authentication threats. It involves assigning users to roles and granting those roles specific permissions based on the principle of least privilege. This limits the attack surface and reduces the impact of a compromised user account.

Let's analyze the other options:

- * B. Credentials and tokens are encrypted: While vital for security, encryption primarily protects data at rest or in transit. It doesn't directly address authentication risks like brute-force attacks or weak password management.
- * C. Cookies have expiration timestamps: Expiring cookies are a good practice, but their primary benefit is session management rather than directly mitigating authentication-specific threats.
- * D. Sensitive information is scrubbed from error messages: While essential for preventing information leakage, this practice doesn't address the core threats within the ASF authentication category.

References:

* NIST Special Publication 800-53 Revision 4, Access Control (AC)

Family: (<https://csrc.nist.gov/publications/detail/sp/800-53/rev-4/final>) Details the importance of RBAC as a cornerstone of access control.

* The Web Application Security Frame (ASF): (<https://patents.google.com/patent/US7818788B2/en>) Outlines the ASF categories, with authentication being one of the primary areas.

NEW QUESTION # 87

Which type of threat exists when an attacker can intercept and manipulate form data after the user clicks the save button but before the request is posted to the API?

- **A. Tampering**
- B. Elevation of privilege
- C. Spoofing
- D. Information disclosure

Answer: A

Explanation:

The type of threat described is Tampering. This threat occurs when an attacker intercepts and manipulates data being sent from the client to the server, such as form data being submitted to an API. The attacker may alter the data to change the intended operation, inject malicious content, or compromise the integrity of the system. Tampering attacks are a significant concern in secure software design because they can lead to unauthorized changes and potentially harmful actions within the application.

References:

* Understanding the different types of API attacks and their prevention¹.

* Comprehensive guide on API security and threat mitigation².

* Detailed analysis of Man-in-the-Middle (MitM) attacks and their impact on API security³.

NEW QUESTION # 88

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

Answer: D

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 # 89

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.

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 # 90

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