

Exam Questions for WGU Secure-Software-Design - Money-Back Guarantee

WGU D487 SECURE SOFTWARE DESIGN EXAM 2025/2026
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QUESTIONS WITH DETAILED VERIFIED ANSWERS (100%
CORRECT ANSWERS) ALREADY GRADED A+

What is the study of real-world software security initiatives organized so companies can measure their initiatives and understand how to evolve them over time?

A) Building Security in Maturity Model (BSIMM)
B) Security features and design
C) OWASP Software Assurance Maturity Model (SAMM)
D) ISO 27001 - Correct Answer - A) Building Security in Maturity Model (BSIMM)

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

A) Static analysis
B) Fuzzing
C) Dynamic analysis
D) OWASP ZAP - Correct Answer - A) Static analysis

A new product will require an administration section for a small number of users. Normal users will be able to view limited customer information and should not see admin functionality within the application.

Which concept is being used?

A) Principle of least privilege

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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
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"> 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 (Q39-Q44):

NEW QUESTION # 39

What is the privacy impact rating of an application that stores personally identifiable information, monitors users with ongoing transfers of anonymous data, and changes settings without notifying the user?

- A. P1 high privacy risk
- B. P3 low privacy risk
- C. P2 moderate privacy risk
- D. P4 no privacy risk

Answer: A

Explanation:

The privacy impact rating for an application that stores personally identifiable information (PII), monitors users with ongoing transfers of anonymous data, and changes settings without notifying the user would be P1 high privacy risk. Storing PII already poses a significant risk due to the potential for data breaches and misuse. Monitoring users and transferring data, even if anonymous, increases the risk as it involves ongoing data collection. Changing settings without user notification is a serious privacy concern because it can lead to unauthorized data processing or sharing, further elevating the risk level.

References:

* Practical Data Security and Privacy for GDPR and CCPA - ISACA1.

* Privacy risk assessment and privacy-preserving data monitoring2.

* How To Effectively Monitor Your Privacy Program A New Series3.

NEW QUESTION # 40

Security testers have completed testing and are documenting the results of vulnerability scans and penetration analysis. They are also creating documentation to share with the organization's largest customers.

Which deliverable is being prepared?

- A. Customer engagement framework
- B. Security testing reports
- C. Remediation report
- D. Open-source licensing review report

Answer: B

Explanation:

After completing vulnerability scans and penetration analysis, security testers document the results to share with stakeholders, such as the organization's largest customers. The deliverable being prepared in this context is the Security testing reports. These reports typically include detailed findings from the security assessments, explanations of the vulnerabilities discovered, the potential risks they pose, and recommendations for remediation. The purpose of these reports is to provide transparency about the security posture of the software or system and to guide the organization in addressing the identified security issues^{1,2}. References: 1, 2
<https://blog.halosecurity.com/what-really-matters-when-it-comes-to-pentesting-deliverables/>

NEW QUESTION # 41

During penetration testing, an analyst was able to create hundreds of user accounts by executing a script that sent individual requests to the registration endpoint.

How should the organization remediate this vulnerability?

- A. Enforce Idle Time-Outs on Session IDs
- B. Enforce Strong Password Complexity Standards
- C. Use a Tool Like CAPTCHA to Prevent Batched Registrations and Bots
- D. Ensure All Data Is Encrypted in Transit

Answer: C**NEW QUESTION # 42**

A recent vulnerability scan uncovered an XML external entity (XXE) flaw that could allow attackers to return the contents of a system file by including a specific payload in an XML request.

How should the organization remediate this vulnerability?

- A. Enforce role-based authorization in all application layers
- B. Disable resolution of external entities in the parsing library
- C. Ensure authentication cookies are encrypted
- D. Ensure audit trails exist for all sensitive transactions

Answer: C

Explanation:

Security change management within the change management process involves ensuring that any changes, including updates or modifications to software, do not introduce new vulnerabilities and are in line with security policies. The question about securing remote administration directly reflects this component because it addresses the security considerations that must be managed when changes are made to how software is accessed and controlled remotely. This includes implementing secure protocols, authentication methods, and monitoring to prevent unauthorized access or breaches, which are crucial when managing changes in a secure manner. References:

* Change management in cybersecurity emphasizes the structured approach to implementing alterations in security protocols, technologies, and processes, ensuring systematic assessment and monitoring¹.

* The role of change management in cybersecurity includes decisions about network access and ensuring the right person can access the right information at the right time, which aligns with securing remote administration².

* Seminal change management models in cybersecurity, like PROSCI's ADKAR model, guide individuals through the change process, managing resistance and identifying training needs, which is relevant to securing remote administration³.

NEW QUESTION # 43

Which category classifies identified threats that do not have defenses in place and expose the application to exploits?

- A. Fully mitigated threat
- B. Unmitigated threats
- C. Threat profile
- D. Partially mitigated threat

Answer: B

Explanation:

The category that classifies identified threats with no defenses in place, exposing the application to exploits, is Unmitigated Threats. This term refers to vulnerabilities for which no countermeasures or mitigations have been implemented. These threats are critical because they represent actual weaknesses that attackers can exploit. In the context of secure software design, it's essential to identify these threats early in the SDLC to ensure that appropriate security controls can be designed and implemented to protect against them.

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Taxonomy of Cyber Threats to Application Security and Applicable Defenses1.

OWASP Foundation's Threat Modeling Process2.

Mitigating Persistent Application Security Threats3.

NEW QUESTION # 44

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