

Authentic Secure-Software-Design Exam Questions & Valid Test Secure-Software-Design Tips

WGU MASTER'S COURSE C706 - SECURE SOFTWARE DESIGN
EXAM 2024/2025 NEWEST!! ACTUAL COMPLETE 300 REAL
EXAM QUESTIONS AND CORRECT DETAILED ANSWERS WITH
RATIONALES (VERIFIED ANSWERS) |ALREADY GRADED A+

Which form of malicious software hides in the lower levels of an operating system with privileged access permissions and opens a backdoor on the system?

A Trojan
B **Rootkit**
C Keylogger
D Ransomware - ANSWER -B

A security administrator wants to prevent web-based code that has full access to a Windows operating system when executing on user systems.

Which technique should remediate this vulnerability?

A Prohibiting downloads of Java applets
B **Prohibiting downloads of ActiveX content**
C Clearing the Domain Name System (DNS) cache

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our Secure-Software-Design exam questions beckon exam candidates around the world with our attractive characters. Our experts made significant contribution to their excellence. So we can say bluntly that our Secure-Software-Design simulating exam is the best. Our effort in building the content of our Secure-Software-Design Study Materials lead to the development of learning guide and strengthen their perfection. To add up your interests and simplify some difficult points, our experts try their best to design our study material and help you understand the learning guide better.

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 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.
Topic 3	<ul style="list-style-type: none"> • 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 4	<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 5	<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.

>> **Authentic Secure-Software-Design Exam Questions** <<

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q56-Q61):

NEW QUESTION # 56

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

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.

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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 # 57

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

Answer: B

NEW QUESTION # 58

Which secure coding best practice says to use a single application-level authorization component that will lock down the application if it cannot access its configuration information?

- A. Communication security
- B. Data protection
- **C. Access control**
- D. Session management

Answer: C

Explanation:

The secure coding best practice that recommends using a single application-level authorization component to lock down the application if it cannot access its configuration information is known as Access Control. This practice is part of a broader set of security measures aimed at ensuring that only authorized users have access to certain functionalities or data within an application. By centralizing the authorization logic, it becomes easier to manage and enforce security policies consistently across the application. If the authorization component cannot retrieve its configuration, it defaults to a secure state, thus preventing unauthorized access¹.

References: 1: OWASP Secure Coding Practices - Quick Reference Guide

NEW QUESTION # 59

Which threat modeling approach concentrates on things the organization wants to protect?

- A. Server-centric
- B. Application-centric
- **C. Asset-centric**
- D. Attacker-centric

Answer: C

Explanation:

The Asset-centric approach to threat modeling focuses on identifying and protecting the assets that are most valuable to an organization. This method prioritizes the assets themselves, assessing their sensitivity, value, and the impact on the business should they be compromised. It is a strategic approach that aims to safeguard the confidentiality, integrity, and availability of the organization's key assets.

References:

- * A Review of Asset-Centric Threat Modelling Approaches¹.
- * Approaches to Threat Modeling - are you getting what you need?².
- * What Is Threat Modeling? - CrowdStrike³.

NEW QUESTION # 60

Which software-testing technique can be automated or semi-automated and provides invalid, unexpected, or random data to the inputs of a computer software program?

- A. Dynamic analysis
- B. Bugtraq
- C. Fuzzing
- D. Static analysis

Answer: C

Explanation:

Fuzzing is an automated or semi-automated software testing technique that involves providing invalid, unexpected, or random data to the inputs of a computer program¹. This process is designed to uncover coding errors, security vulnerabilities, and other potential issues within the software by observing how it behaves under unexpected or malformed inputs. Fuzzing is particularly effective because it can expose corner cases that have not been properly dealt with and can be used to test programs that take structured inputs, such as file formats or protocols².

References: 1: Wikipedia - Fuzzing 2: DZone - Fuzzing in Software Engineering

NEW QUESTION # 61

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