




Pass Guaranteed Newest WGU - Secure-Software-Design - WGU Secure Software Design (KEO1) Exam Exam Reference

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 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.
Topic 4	<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 5	<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.

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q69-Q74):

NEW QUESTION # 69

Which threat modeling step collects exploitable weaknesses within the product?

- A. Set the scope
- B. Rate threats
- **C. Identify and document threats**
- D. Analyze the target

Answer: C

Explanation:

The step in threat modeling that involves collecting exploitable weaknesses within the product is Identify and document threats. This step is crucial as it directly addresses the identification of potential security issues that could be exploited. It involves a detailed examination of the system to uncover vulnerabilities that could be targeted by threats.

References: The OWASP Foundation's Threat Modeling Process outlines a structured approach where identifying and documenting threats is a key step¹. Additionally, various sources on threat modeling agree that the identification of threats is a fundamental aspect of the process, as it allows for the subsequent analysis and mitigation of these threats²³⁴⁵.

NEW QUESTION # 70

What sits between a browser and an internet connection and alters requests and responses in a way the developer did not intend?

- **A. Intercept proxy**
- B. Input validation

- C. Reverse engineering
- D. Load testing

Answer: A

Explanation:

An intercept proxy, also known as a proxy server, sits between a web client (such as a browser) and an external server to filter, monitor, or manipulate the requests and responses passing through it. This can be used for legitimate purposes, such as security testing and user privacy, but it can also be exploited by attackers to alter web traffic in a way that the developer did not intend, potentially leading to security vulnerabilities.

References:

- * Understanding of HTTP and HTTPS protocols¹².
- * Definition and role of proxy servers³.

NEW QUESTION # 71

The organization has contracted with an outside firm to simulate an attack on the new software product and report findings and remediation recommendations.

Which activity of the Ship SDL phase is being performed?

- **A. Penetration testing**
- B. Policy compliance analysis
- C. Final security review
- D. Open-source licensing review

Answer: A

Explanation:

Penetration testing is an activity where a simulated attack is performed on a software product to identify vulnerabilities that could be exploited by attackers. It is a proactive and authorized attempt to evaluate the security of an IT infrastructure by safely trying to exploit system vulnerabilities, including OS, service and application flaws, improper configurations, and risky end-user behavior. In the context of the Ship phase of the Security Development Lifecycle (SDL), penetration testing is conducted as a final check to uncover any potential security issues that might have been missed during previous phases. This ensures that the software product is robust and secure before it is released.

References:

- * The Ship phase of the SDL includes activities such as policy compliance review, vulnerability scanning, penetration testing, open-source licensing review, and final security and privacy reviews¹.
- * Penetration testing is a critical component of the Ship phase, as it helps to identify and fix security vulnerabilities before the software is deployed².

NEW QUESTION # 72

Which software control test examines the internal logical structures of a program and steps through the code line by line to analyze the program for potential errors?

- A. Black box testing
- B. Dynamic testing
- **C. White box testing**
- D. Reasonableness testing

Answer: C

Explanation:

White box testing, also known as clear box testing, glass box testing, transparent box testing, and structural testing, is a method of software testing where the internal structure, design, and coding of the software are tested to verify the flow of input-output and to improve the design, usability, and security. It involves looking at the structures that are internal to the system, with the tester having knowledge of the internal workings of the product. This type of testing is concerned with examining the internal logical structures of the program and is typically performed by stepping through the code line by line to analyze the program for potential errors, which aligns with the description of the control test in question.

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Control Structure Testing - GeeksforGeeks¹

NEW QUESTION # 73

Which DKEAD category has a risk rating based on the threat exploit's potential level of harm?

- **A. Damage potential**
- B. Reproducibility
- C. Affected users
- D. Exploitability

Answer: A

Explanation:

The DKEAD category that has a risk rating based on the threat exploit's potential level of harm is Damage potential. This category assesses the total damage or impact that a threat could cause if it is exploited by an attacker. The risk rating in this category is determined by evaluating the severity of the potential damage, which could range from information disclosure to complete system destruction or loss of system availability.

References:

- * DREAD Threat Modeling¹
- * OWASP Risk Rating Methodology²
- * DREAD Threat Modeling: An Introduction to Qualitative Risk Analysis³

NEW QUESTION # 74

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