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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 4	• 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 5	• 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.

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q73-Q78):

NEW QUESTION # 73
A potential threat was discovered during automated system testing when a PATCH request sent to the API caused an unhandled server exception. The API only supports GET. POST. PUT,and DELETE requests.
How should existing security controls be adjusted to prevent this in the future?

- A. Property configure acceptable API requests
- B. Use API keys to enforce authorization of every request
- C. Enforce role-based authorization
- D. Ensure audit logs are in place for sensitive transactions

Answer: A

Explanation:
The issue described involves a PATCH request causing an unhandled server exception because the API does not support this method. The most direct and effective way to prevent such exceptions is to ensure that the API is configured to accept only the supported request methods: GET, POST, PUT, and DELETE. This can be achieved by implementing strict input validation to reject any requests that do not conform to thedefined API specifications, including the request method. By doing so, any requests using unsupported methods like PATCH will be immediately rejected, thus preventing the server from reaching an exception state.
References:
* OWASP's guidance on error and exception handling emphasizes the importance of managing exceptions in a centralized manner and ensuring that all unexpected behavior is correctly handled within the application1.
* Additional best practices for error handling in software development suggest the significance of input validation and the implementation of defensive programming techniques to prevent errors2.
* The OWASP Foundation also highlights the principle that all security mechanisms should deny access until specifically granted, which supports the approach of configuring acceptable API requests3.

NEW QUESTION # 74
The security team contracts with an independent security consulting firm to simulate attacks on deployed products and report results to organizational leadership.
Which category of secure software best practices is the team performing?

- A. Code review
- B. Architecture analysis
- C. Penetration testing
- D. Attack models

Answer: C

Explanation:
Comprehensive and Detailed In-Depth Explanation:
Engaging an independent security consulting firm to simulate attacks on deployed products is an example of Penetration Testing. Penetration testing involves authorized simulated attacks on a system to evaluate its security. The objective is to identify vulnerabilities that could be exploited by malicious entities and to assess the system's resilience against such attacks. This proactive approach helps organizations understand potential weaknesses and implement necessary safeguards.
According to the OWASP Testing Guide, penetration testing is a critical component of a comprehensive security program: "Penetration testing involves testing the security of systems and applications by simulating attacks from malicious individuals."
References:
* OWASP Testing Guide

NEW QUESTION # 75
The final security review determined that two low-risk security issues identified in testing are still outstanding. Developers have assured the security team that both issues can be resolved quickly once they have time to fix them. The security team is confident that developers can fix the flaws in the first post-release patch.
What is the result of the final security review?

- A. Passed with Exceptions
- B. Passed
- C. Not Passed and Requires Escalation
- D. Not Passed but Does Not Require Escalation

Answer: A

NEW QUESTION # 76
Which design and development deliverable contains the results of each type of evaluation that was performed and the type and number of vulnerabilities discovered?

- A. Remediation report
- B. Security test execution report
- C. Security testing reports
- D. Privacy compliance report

Answer: C

Explanation:
Security testing reports are the deliverables that typically contain detailed results of the security evaluations performed. These reports include the types of tests conducted, such as static and dynamic analysis, penetration testing, and code reviews, as well as the number and types of vulnerabilities discovered. The purpose of these reports is to document the security posture of the software at the time of testing and to provide a basis for remediation efforts.
: The information aligns with best practices in secure software development, which emphasize the importance of documenting security requirements and conducting risk analysis during the design phase to identify and mitigate vulnerabilities early in the SDLC12.

NEW QUESTION # 77
Which threat modeling step assigns a score to discovered threats?

- A. Rate Threats
- B. Analyze the Target
- C. Identify and Document Threats
- D. Set the Scope

Answer: A

NEW QUESTION # 78
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