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## WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Software System Management:</b> 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Large Scale Software System Design:</b> 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Reliable and Secure Software Systems:</b> 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.</li> </ul>

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## Quiz Secure-Software-Design - WGUSecure Software Design (KEO1) Exam – Trustable Practice Braindumps

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### WGUSecure Software Design (KEO1) Exam Sample Questions (Q18-Q23):

#### NEW QUESTION # 18

Which SDL security goal is defined as ensuring timely and reliable access to and use of information?

- A. Information security
- **B. Availability**
- C. Confidentiality
- D. Integrity

**Answer: B**

Explanation:

The term 'availability' in the context of Secure Software Development Lifecycle (SDL) refers to ensuring that systems, applications, and data are accessible to authorized users when needed. This means that the information must be timely and reliable, without undue delays or interruptions. Availability is a critical aspect of security, as it ensures that the software functions correctly and efficiently, providing users with the information they need to perform their tasks.

References:

- \* The definition of availability as per the National Institute of Standards and Technology (NIST) Glossary1.
- \* The Microsoft Security Development Lifecycle (SDL) which emphasizes the importance of availability in secure software design2.
- \* General principles of Secure Software Development Life Cycle (SSDLC) that include availability as a key security goal3.

#### NEW QUESTION # 19

An individual is developing a software application that has a back-end database and is concerned that a malicious user may run the following SQL query to pull information about all accounts from the database:

Which technique should be used to detect this vulnerability without running the source codes?

- A. Dynamic analysis
- B. Fuzz testing
- C. Static analysis
- D. Cross-site scripting

**Answer: C**

Explanation:

Static analysis is a method used to detect vulnerabilities in software without executing the code. It involves examining the codebase for patterns that are indicative of security issues, such as SQL injection vulnerabilities. This technique can identify potential threats and weaknesses by analyzing the code's structure, syntax, and data flow.

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Static analysis as a means to identify security vulnerabilities<sup>1</sup>.

The importance of static analysis in the early stages of the SDLC to prevent security issues<sup>2</sup>.

Learning-based approaches to fix SQL injection vulnerabilities using static analysis<sup>3</sup>.

### NEW QUESTION # 20

Which secure coding best practice says to assume all incoming data should be considered untrusted and should be validated to ensure the system only accepts valid data?

- A. Session management
- B. System configuration
- C. Input validation
- D. General coding practices

**Answer: C**

Explanation:

The secure coding best practice that emphasizes treating all incoming data as untrusted and subjecting it to validation is known as input validation. This practice is crucial for ensuring that a system only processes valid, clean data, thereby preventing many types of vulnerabilities, such as SQL injection, cross-site scripting (XSS), and buffer overflows, which can arise from maliciously crafted inputs.

\* Input validation involves verifying that the data meets certain criteria before it is processed by the system. This includes checking for the correct data type, length, format, and range. It also involves sanitizing the data to ensure that it does not contain any potentially harmful elements that could lead to security breaches.

\* A centralized input validation routine is recommended for the entire application, which helps in maintaining consistency and effectiveness in the validation process. This routine should be implemented on a trusted system, typically server-side, to prevent tampering or bypassing of the validation logic.

\* It's important to classify all data sources into trusted and untrusted categories and to apply rigorous validation to all data from untrusted sources, such as user input, databases, file streams, and network interfaces.

By adhering to the input validation best practice, developers can significantly reduce the attack surface of their applications and protect against a wide array of common security threats.

: The verified answer is supported by the Secure Coding Practices outlined by the OWASP Foundation<sup>1</sup> and other reputable sources such as Coding Dojo<sup>2</sup> and CERT Secure Coding<sup>3</sup>.

### NEW QUESTION # 21

Which secure software design principle states that it is always safer to require agreement of more than one entity to make a decision?

- A. Separation of Privileges
- B. Total Mediation
- C. Least Privilege
- D. Psychological Acceptability

**Answer: A**

### NEW QUESTION # 22

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

**Answer: A**

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 # 23

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### Software-Design Correct Answers

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