

# Secure-Software-Design Online Test & Secure-Software-Design Prüfungsinformationen



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Während andere Leute in der U-Bahn erstarren, können Sie mit Pad die PDF Version von WGU Secure-Software-Design Prüfungsunterlagen lesen. Während andere im Internet spielen, können Sie mit Online Test Engine der WGU Secure-Software-Design trainieren. Wir glauben, dass so fleißig wie Sie sind, können Sie bestimmt in einer sehr kurzen Zeit die WGU Secure-Software-Design Prüfung bestehen. Während andere noch über Ihre ausgezeichnete Erzeugnisse erstaunen, haben Sie wahrscheinlich ein wunderbare Arbeitsstelle bekommen.

## WGU Secure-Software-Design Prüfungsplan:

| Thema   | Einzelheiten  |
|---------|---|
| Thema 1 | <ul style="list-style-type: none"><li>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.</li></ul> |

|         |   |
|---------|---|
| Thema 2 | <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>                          |
| Thema 3 | <ul style="list-style-type: none"> <li>• <b>Software Architecture Types:</b> 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.</li> </ul>                              |
| Thema 4 | <ul style="list-style-type: none"> <li>• <b>Design Pattern Selection and Implementation:</b> 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.</li> </ul> |
| Thema 5 | <ul style="list-style-type: none"> <li>• <b>Software Architecture and Design:</b> 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>  |

>> **Secure-Software-Design Online Test** <<

## **Secure-Software-Design Prüfungsressourcen: WGUSecure Software Design (KEO1) Exam & Secure-Software-Design Reale Fragen**

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### **WGUSecure Software Design (KEO1) Exam Secure-Software-Design Prüfungsfragen mit Lösungen (Q72-Q77):**

#### **72. Frage**

In which step of the PASTA threat modeling methodology is vulnerability and exploit analysis performed?

- A. Define objectives
- **B. Attack modeling**
- C. Define technical scope
- D. Application decomposition

**Antwort: B**

**Begründung:**

In the PASTA (Process for Attack Simulation and Threat Analysis) threat modeling methodology, vulnerability and exploit analysis is performed during the Attack modeling step. This step involves identifying potential threats and vulnerabilities within the system and understanding how they could be exploited.

\* Attack modeling is a critical phase where the focus is on simulating attacks based on identified vulnerabilities. It allows for a deep understanding of the threats in the context of the application's architecture and system design.

\* During this phase, security analysts use their knowledge of the system's technical scope and application decomposition to simulate how an attacker could exploit the system's vulnerabilities. This helps in prioritizing the risks and planning appropriate mitigation strategies.

\* The goal of attack modeling is not just to identify vulnerabilities but also to understand the potential impact of exploits on the system and the business, which is essential for developing a robust security posture.

References: The information provided is aligned with the PASTA methodology as described in resources such as VerSprite1 and the OWASP Foundation2. These sources detail the seven stages of PASTA, with attack modeling being a key component of the

process.

### 73. Frage

Which threat modeling step collects exploitable weaknesses within the product?

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

**Antwort: D**

Begründung:

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.

: The OWASP Foundation's Threat Modeling Process outlines a structured approach where identifying and documenting threats is a key step<sup>1</sup>. 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 threats<sup>2,3,4,5</sup>.

### 74. Frage

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. Load testing
- D. Reverse engineering

**Antwort: A**

Begründung:

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 protocols<sup>1,2</sup>.

\* Definition and role of proxy servers<sup>3</sup>.

### 75. Frage

During fuzz testing of the new product, random values were entered into input elements. Search requests were sent to the correct API endpoint but many of them failed on execution due to type mismatches.

How should existing security controls be adjusted to prevent this in the future?

- A. Ensure the contents of authentication cookies are encrypted
- **B. Ensure all user input data is validated prior to transmitting requests**
- C. Ensure all requests and responses are encrypted
- D. Ensure sensitive transactions can be traced through an audit log

**Antwort: B**

Begründung:

Validating user input data before it is processed by the application is a fundamental security control in software design. This process, known as input validation, ensures that only properly formed data is entering the workflow of the application, thereby preventing many types of attacks, including type mismatches as mentioned in the question. By validating input data, the application can reject any requests that contain unexpected or malicious data, reducing the risk of security vulnerabilities and ensuring the integrity of the system.

References:

- \* Secure SDLC practices emphasize the importance of integrating security activities, such as creating security and functional requirements, code reviews, security testing, architectural analysis, and risk assessment, into the existing development workflow<sup>1</sup>.
- \* A Secure Software Development Life Cycle (SSDLC) ensures that security is considered at every phase of the development process, from planning and design to coding, testing, deploying, and maintaining the software<sup>2</sup>.

## 76. Frage

Which secure coding best practice says to ensure that buffers are allocated correctly and at the right size, that input strings are truncated to a reasonable length, and that resources, connections, objects, and file handles are destroyed once the application no longer needs them?

- A. Input Validation
- **B. Memory Management**
- C. Session Management
- D. Data Protection

Antwort: B

## 77. Frage

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