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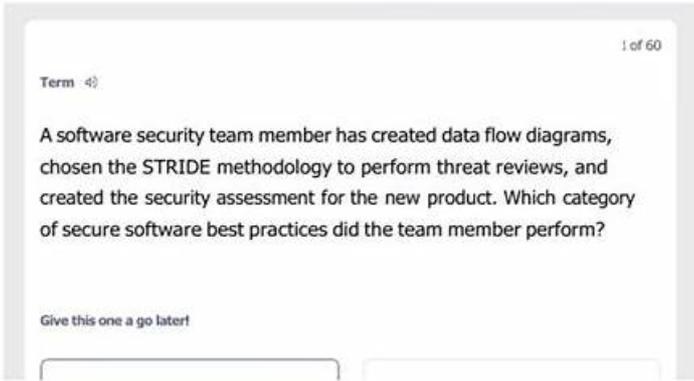
WGU D487 PRE-ASSESSMENT: SECURE SOFTWARE DESIGN (KEO1) (PKEO) | EXPLORE NEW 60 QUESTIONS AND CORRECT ANSWERS | LATEST UPDATE 100% VERIFIED | 2025 GUIDE



Correct 60  
Incorrect 00

SECURE SOFTWARE DESIGN (KEO1) (PKEO)

Questions and answers



1 of 60

Term <>

A software security team member has created data flow diagrams, chosen the STRIDE methodology to perform threat reviews, and created the security assessment for the new product. Which category of secure software best practices did the team member perform?

Give this one a go later!

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## WGU Secure-Software-Design 考試大綱：

主題	簡介
主題 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>
主題 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
主題 3	<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>

## 最新的 Courses and Certificates Secure-Software-Design 免費考試真題 (Q41-Q46):

### 問題 #41

Developers have finished coding, and changes have been peer-reviewed. Features have been deployed to a pre- production environment so that analysts may verify that the product is working as expected.

Which phase of the Software Development Life Cycle (SDLC) is being described?

- A. Design
- B. Requirements
- C. Testing
- D. Deployment

答案： C

解題說明：

Comprehensive and Detailed In-Depth Explanation:

The scenario describes a stage where the developed features are deployed to a pre-production environment for verification by analysts. This aligns with the Testing phase of the Software Development Life Cycle (SDLC).

In the Testing phase, the system undergoes various evaluations to ensure it meets the specified requirements and functions correctly. This includes deploying the software in an environment that simulates production to identify and rectify defects before the actual deployment. The primary goal is to validate the software's quality and performance.

According to the SDLC framework, after the development (coding) phase, the next step is Testing, where the system is rigorously evaluated. This phase is crucial to detect issues that may not have been apparent during development and to ensure that the software operates as intended in a controlled setting before live deployment.

References:

\* Software Development Life Cycle Documentation

### 問題 #42

Which secure coding best practice says to require authentication before allowing any files to be uploaded and to limit the types of files to only those needed for the business purpose?

- A. File management

- B. Communication security
- C. Memory management
- D. Data protection

答案: A

解題說明:

The secure coding best practice that requires authentication before allowing any files to be uploaded, and limits the types of files to only those needed for the business purpose, falls under the category of File Management. This practice is crucial for preventing unauthorized file uploads, which can be a common vector for attacks such as uploading malicious files or scripts. By enforcing authentication, the application ensures that only legitimate users can upload files. Additionally, restricting the file types to those necessary for business operations minimizes the risk of uploading potentially harmful files that could compromise the system.

References:

- \* OWASP Secure Coding Practices1
- \* File Upload Security Best Practices | CodeHandbook2
- \* File Upload Protection - 10 Best Practices for Preventing ... - OPSWAT3

### 問題 #43

What is a countermeasure to the web application security frame (ASF) authentication threat category?

- A. Sensitive information is scrubbed from error messages
- B. Cookies have expiration timestamps.
- C. Role-based access controls restrict access
- D. Credentials and tokens are encrypted.

答案: C

解題說明:

\* ASF Authentication Threats: The Web Application Security Frame (ASF) authentication category encompasses threats related to how users and systems prove their identity to the application. This includes issues like weak passwords, compromised credentials, and inadequate access controls.

\* Role-Based Access Control (RBAC): RBAC is a well-established security principle that aligns closely with addressing authentication threats. It involves assigning users to roles and granting those roles specific permissions based on the principle of least privilege. This limits the attack surface and reduces the impact of a compromised user account.

Let's analyze the other options:

\* B. Credentials and tokens are encrypted: While vital for security, encryption primarily protects data at rest or in transit. It doesn't directly address authentication risks like brute-force attacks or weak password management.

\* C. Cookies have expiration timestamps: Expiring cookies are a good practice, but their primary benefit is session management rather than directly mitigating authentication-specific threats.

\* D. Sensitive information is scrubbed from error messages: While essential for preventing information leakage, this practice doesn't address the core threats within the ASF authentication category.

References:

NIST Special Publication 800-53 Revision 4, Access Control (AC) Family: (<https://csrc.nist.gov/publications/detail/sp/800-53/rev-4/final>) Details the importance of RBAC as a cornerstone of access control.

The Web Application Security Frame (ASF): (<https://patents.google.com/patent/US7818788B2/en>) Outlines the ASF categories, with authentication being one of the primary areas.

### 問題 #44

Using a web-based common vulnerability scoring system (CVSS) calculator, a security response team member performed an assessment on a reported vulnerability in the company's claims intake component. The base score of the vulnerability was 3.5 and changed to 5.9 after adjusting temporal and environmental metrics.

Which rating would CVSS assign this vulnerability?

- A. High severity
- B. Low severity
- C. Medium severity
- D. Critical severity

答案: A

解題說明:

The Common Vulnerability Scoring System (CVSS) uses the following ranges to determine the severity rating of a vulnerability:

- \* 0.1 - 3.9: Low severity
- \* 4.0 - 6.9: Medium severity
- \* 7.0 - 8.9: High severity
- \* 9.0 - 10.0: Critical severity

Since the adjusted score for the vulnerability is 5.9, it falls within the High severity range.

References:

CVSS v3.1 Specification Document - FIRST: <https://www.first.org/cvss/specification-document> National Vulnerability Database (NVD) - NIST: <https://nvd.nist.gov/vuln-metrics/cvss>

#### 問題 #45

Company leadership has discovered an untapped revenue stream within its customer base and wants to meet with IT to share its vision for the future and determine whether to move forward.

Which phase of the software development lifecycle (SDLC) is being described?

- A. Design
- B. Implementation
- C. Requirements
- **D. Planning**

答案: D

解題說明:

The phase being described is the Planning phase of the SDLC. This initial stage involves gathering business requirements and evaluating the feasibility of the project. It's when the company leadership would typically meet with IT and other stakeholders to share visions for the future, discuss potential revenue streams, and determine the project's direction before moving forward with development. This phase is crucial for setting the groundwork for all subsequent phases of the SDLC.

References:

- \* The Software Development Life Cycle (SDLC): 7 Phases and 5 Models<sup>1</sup>.
- \* What Is the Software Development Life Cycle? SDLC Explained<sup>2</sup>.
- \* Software Development Life Cycle (SDLC) Phases & Models<sup>3</sup>.

#### 問題 #46

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上帝讓我成為一個有實力的人，而不是一個好看的布娃娃。當我選擇了IT行業的時候就已經慢慢向上帝證明了我的實力，可是上帝是個無法滿足的人，逼著我一直向上。這次通過 WGU的Secure-Software-Design考試認證是我人生中的一大挑戰，所以我拼命的努力學習，不過不要緊，我購買了NewDumps WGU的Secure-Software-Design考試認證培訓資料，有了它，我就有了實力通過 WGU的Secure-Software-Design考試認證，選擇NewDumps培訓網站只說明，路在我們腳下，沒有人決定它的方向，擁有了NewDumps WGU的Secure-Software-Design考試培訓資料，就等於擁有一個美好的未來。

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