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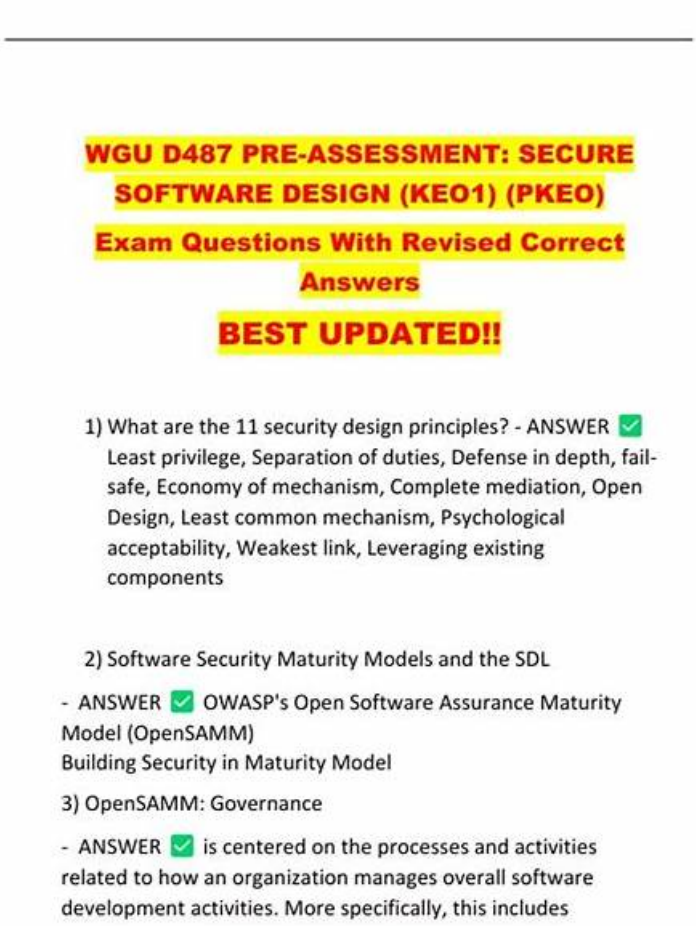
WGU D487 PRE-ASSESSMENT: SECURE SOFTWARE DESIGN (KEO1) (PKEO)

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 Prüfungsplan:

Thema	Einzelheiten

Thema 1	• 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.
Thema 2	• 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.
Thema 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.

Secure-Software-Design Ausbildungsressourcen, Secure-Software-Design Fragen Und Antworten

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WGUSecure Software Design (KEO1) Exam Secure-Software-Design Prüfungsfragen mit Lösungen (Q34-Q39):

34. Frage
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. Deployment
- C. Requirements
- D. Testing

Antwort: D

Begründung:
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

35. Frage
Which security assessment deliverable identities possible security vulnerabilities in the product?

- A. Metrics template
- B. Threat profile
- C. List of third-party software
- D. SDL project outline

Antwort: B

Begründung:
A threat profile is a security assessment deliverable that identifies possible security vulnerabilities in a product. It involves a systematic examination of the product to uncover any weaknesses that could potentially be exploited by threats. The process typically includes identifying the assets that need protection, assessing the threats to those assets, and evaluating the vulnerabilities that could be exploited by those threats. This deliverable is crucial for understanding the security posture of a product and for prioritizing remediation efforts.
References: The importance of a threat profile in identifying security vulnerabilities is supported by various security resources. For instance, Future Processing's blog on vulnerability assessments outlines the steps involved in identifying security vulnerabilities, which align with the creation of a threat profile1. Additionally, UpGuard's article on conducting vulnerability assessments further emphasizes the role of identifying vulnerabilities as part of the security assessment process2.

36. Frage
Which step in the change management process includes modifying the source code?

- A. Patch management
- B. Installation management
- C. Policy compliance analysis
- D. Privacy implementation assessment

Antwort: A

Begründung:
Modifying the source code is typically associated with the patch management step in the change management process. Patch management involves the acquisition, testing, and installation of code changes, which can include updates, bug fixes, or improvements to existing software. This step ensures that modifications to the software are made in a controlled and systematic manner, maintaining the integrity and security of the software throughout the change.
References: The information provided aligns with industry-standard practices for change management in software engineering1.

37. Frage
The product development team is preparing for the production deployment of recent feature enhancements.
One morning, they noticed the amount of test data grew exponentially overnight. Most fields were filled with random characters, but some structured query language was discovered.
Which type of security development lifecycle (SDL) tool was likely being used?

- A. Dynamic analysis
- B. Static analysis
- C. Fuzzing
- D. Threat model

Antwort: C

Begründung:
Comprehensive and Detailed In-Depth Explanation:
The scenario described indicates that the system was subjected to inputs containing random data and some structured query language (SQL) statements, leading to an exponential increase in test data. This behavior is characteristic of fuzzing, a testing technique used to identify vulnerabilities by inputting a wide range of random or unexpected data into the system.
Fuzzing aims to discover coding errors and security loopholes by bombarding the application with malformed or unexpected inputs, observing how the system responds. The presence of random characters and SQL statements suggests that the fuzzing tool was testing for vulnerabilities such as SQL injection by injecting various payloads into the system.

This approach is part of the Verification business function in the OWASP SAMM, specifically within the Security Testing practice. Security testing involves evaluating the software to identify vulnerabilities that could be exploited, and fuzzing is a common technique employed in this practice to ensure the robustness and security of the application.
References:
* OWASP SAMM: Verification - Security Testing

38. Frage
The security team is reviewing all noncommercial software libraries used in the new product to ensure they are being used according to the legal specifications defined by the authors.
What activity of the Ship SDL phase is being performed?

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

Antwort: A

Begründung:
The activity described pertains to the review of noncommercial software libraries to ensure compliance with the legal specifications set by the authors. This is part of the open-source licensing review, which is a critical activity in the Ship phase of the Security Development Lifecycle (SDL). This review ensures that all open- source components are used in accordance with their licenses, which is essential for legal and security compliance.
: The Ship phase of the SDL includes various activities such as policy compliance review, vulnerability scanning, penetration testing, open-source licensing review, and final security and privacy reviews12. The open-source licensing review specifically addresses the legal aspects of using third-party software components2.

39. Frage
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