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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Design Pattern Selection and Implementation: 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.
Topic 2	<ul style="list-style-type: none">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	<ul style="list-style-type: none"> • 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.
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WGUSecure Software Design (KEO1) Exam Sample Questions (Q59-Q64):

NEW QUESTION # 59

What are the eight phases of the software development lifecycle (SDLC)?

- A. Plan, gather requirements, identify attack surface, design, write code, perform code reviews, test, deploy
- **B. Planning, requirements, design, implementation, testing, deployment, maintenance, end of life**
- C. Planning, security analysis, requirement analysis, design, implementation, threat mitigation, testing, maintenance
- D. Gather requirements, prototype, perform threat modeling, write code, test, user acceptance testing, deploy, maintain

Answer: B

NEW QUESTION # 60

The security team has a library of recorded presentations that are required viewing for all new developers in the organization. The video series details organizational security policies and demonstrates how to define, test for, and code for possible threats. Which category of secure software best practices does this represent?

- A. Attack models
- **B. Training**
- C. Code review
- D. Architecture analysis

Answer: B

Explanation:

The category of secure software best practices being described is Training. This is because the focus is on educating new developers about organizational security policies and coding practices to mitigate potential threats. Training is a proactive approach to ensure that developers are aware of security concerns and are equipped with the knowledge to address them in their coding practices.

: The importance of training in secure software best practices is supported by industry resources such as the SAFECode's "Fundamental Practices for Secure Software Development" which emphasizes the need for application security control definition and management¹, and the NIST's Secure Software Development Framework (SSDF) which recommends integrating secure development practices throughout the software development lifecycle². Additional support for this category can be found in resources detailing effective secure development practices^{3,4,5}.

NEW QUESTION # 61

Which DREAD category is based on how easily a threat exploit can be found?

- A. Affected Users
- **B. Discoverability**

- C. Reproducibility
- D. Damage Potential

Answer: B

NEW QUESTION # 62

In which step of the PASTA threat modeling methodology will the team capture infrastructure, application, and software dependencies?

- A. Attack modeling
- B. Define objectives
- C. Define technical scope
- D. Risk and impact analysis

Answer: C

Explanation:

The step of the PASTA threat modeling methodology where the team will capture infrastructure, application, and software dependencies is the Define technical scope step. This step involves detailing the technical elements of the project, which includes understanding and documenting the infrastructure, applications, and software dependencies that are critical to the system's operation and security.

References: The PASTA (Process for Attack Simulation and Threat Analysis) threat modeling methodology is a seven-step process that includes defining the technical scope as a critical step for capturing the necessary technical details of the system being analyzed¹²³.

NEW QUESTION # 63

The software security team prepared a detailed schedule mapping security development lifecycle phases to the type of analysis they will execute.

Which design and development deliverable aid the team prepare?

- A. Updated threat modeling artifacts
- B. Security test plans
- C. Design security review
- D. Privacy implementation assessment results

Answer: B

Explanation:

The deliverable that would aid a software security team in preparing a detailed schedule mapping security development lifecycle phases to the type of analysis they will execute is Security test plans. These plans are crucial as they outline the testing strategies and specific security tests that will be conducted during the development lifecycle to ensure the software meets the required security standards.

* Security test plans are developed after the requirements and design phases and are used throughout the implementation, verification, and release phases. They include detailed instructions for security testing, criteria for success, and the types of security testing to be performed, such as static and dynamic analysis, penetration testing, and code review.

* These plans are living documents that should be updated as new threats are identified and as the project evolves. They ensure that all team members understand the security goals, the risks, and the measures that need to be taken to mitigate those risks.

* By having a well-defined security test plan, the team can ensure that security is not an afterthought but is integrated into every phase of the software development lifecycle, thus producing more secure software.

References: The importance of security test plans in the software development lifecycle is supported by best practices and guidelines from sources such as Microsoft's Security Development Lifecycle¹ and Snyk's Secure Software Development Life Cycle principles².

NEW QUESTION # 64

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