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WGU D487 OA EXAM

what is the analysis of computer software that is performed by executing programs on a real or virtual processor in real time?

- dynamic analysis
- static analysis
- fuzzing
- security testing

Answer- -dynamic analysis

which person is responsible for designing, planning, and implementing secure coding practices and security testing methodologies?

- software security architect
- product security developer
- software security champion

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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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.
Topic 2	<ul style="list-style-type: none">• 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.

Topic 3	<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.
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WGUSecure Software Design (KEO1) Exam Sample Questions (Q105-Q110):

NEW QUESTION # 105

The software security group is conducting a maturity assessment using the Building Security in Maturity Model (BSIMM). They are currently focused on reviewing attack models created during recently completed initiatives.

Which BSIMM domain is being assessed?

- A. Governance
- B. Software security development life cycle (SSDL) touchpoints
- **C. Intelligence**
- D. Deployment

Answer: C

Explanation:

The Intelligence domain in the Building Security in Maturity Model (BSIMM) focuses on gathering and using information about software security. This includes understanding the types of attacks that are possible against the software being developed, which is why reviewing attack models falls under this domain. The BSIMM domain of Intelligence involves creating models of potential attacks on software (attack models), analyzing actual attacks that have occurred (attack intelligence), and sharing this information to improve security measures. By reviewing attack models, the software security group is essentially assessing the organization's ability to anticipate and understand potential security threats, which is a key aspect of the Intelligence domain.

References: The references used to verify this answer include the official BSIMM documentation and related resources that describe the various domains and their activities within the BSIMM framework.

NEW QUESTION # 106

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

Answer: A

NEW QUESTION # 107

Which threat modeling methodology involves creating or using collections of similar threats?

- A. Security Profile
- B. Attack Trees
- C. **Attack Libraries**
- D. Data Flow Diagrams

Answer: C

NEW QUESTION # 108

The scrum team decided that before any change can be merged and tested, it must be looked at by the team's lead developer, who will ensure accepted coding patterns are being followed and that the code meets the team's quality standards.

Which category of secure software best practices is the team performing?

- A. Architecture analysis
- B. Training
- C. Code review
- D. **Penetration testing**

Answer: D

Explanation:

The practice described is Code review, which is a part of secure software development best practices. Code reviews are conducted to ensure that the code adheres to accepted coding patterns and meets the team's quality standards. This process involves the examination of source code by a person or a group other than the author to identify bugs, security vulnerabilities, and ensure compliance with coding standards.

References:

* Fundamental Practices for Secure Software Development - SAFECode1.

* Secure Software Development Framework | CSRC2.

* Secure Software Development Best Practices - Hyperproof3.

NEW QUESTION # 109

Senior IT staff has determined that a new product will be hosted in the cloud and will support web and mobile users. Developers will need to deliver secure REST services, Android and iOS mobile apps, and a web application. Developers are currently determining how to deliver each part of the overall product.

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

- A. Maintenance
- B. End of life
- C. **Design**
- D. Deployment

Answer: C

Explanation:

The phase being described is the Design phase of the SDLC. During this phase, developers and IT staff determine the architectural and operational details of the product, which includes decisions on how to deliver various components such as secure REST services, mobile apps, and web applications. The Design phase is crucial for setting the foundation for the development work that will follow, ensuring that the product will be secure, scalable, and maintainable.

References: The information aligns with the descriptions of the SDLC phases provided in resources such as GitHub's explanation of the SDLC¹ and other industry-standard software development lifecycle resources²³⁴.

NEW QUESTION # 110

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