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WGU Secure-Software-Design Exam Syllabus Topics:

Topic	Details

Topic 1	• 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.
Topic 2	• 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	• 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.

WGUSecure Software Design (KEO1) Exam Sample Questions (Q24-Q29):

NEW QUESTION # 24
In which step of the PASTA threat modeling methodology is vulnerability and exploit analysis performed?

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

Answer: D

Explanation:
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.
: 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.

NEW QUESTION # 25
Which secure coding best practice says to assume all incoming data should be considered untrusted and should be validated to ensure the system only accepts valid data?

- A. System configuration
- B. Input validation
- C. Session management
- D. General coding practices

Answer: B

Explanation:
The secure coding best practice that emphasizes treating all incoming data as untrusted and subjecting it to validation is known as input validation. This practice is crucial for ensuring that a system only processes valid, clean data, thereby preventing many types of vulnerabilities, such as SQL injection, cross-site scripting (XSS), and buffer overflows, which can arise from maliciously crafted inputs.

* Input validation involves verifying that the data meets certain criteria before it is processed by the system. This includes checking for the correct data type, length, format, and range. It also involves sanitizing the data to ensure that it does not contain any potentially harmful elements that could lead to security breaches.
* A centralized input validation routine is recommended for the entire application, which helps in maintaining consistency and effectiveness in the validation process. This routine should be implemented on a trusted system, typically server-side, to prevent tampering or bypassing of the validation logic.
* It's important to classify all data sources into trusted and untrusted categories and to apply rigorous validation to all data from untrusted sources, such as user input, databases, file streams, and network interfaces.
By adhering to the input validation best practice, developers can significantly reduce the attack surface of their applications and protect against a wide array of common security threats.
References: The verified answer is supported by the Secure Coding Practices outlined by the OWASP Foundation1 and other reputable sources such as Coding Dojo2 and CERT Secure Coding3.

NEW QUESTION # 26
Which type of manual code review technique is being used when the reviewer starts at an input control and traces its value through the application to each of the value's outputs?

* A. Risk analysis
* B. Data flow analysis
* C. Control flow analysis
* D. Threat analysis

Answer: B

Explanation:
Data flow analysis is a manual code review technique where the reviewer traces the path of data from its entry point in the software (input control) through its processing and manipulation within the application, to its exit points (outputs). This technique is used to ensure that the data is handled securely throughout its lifecycle within the application and to identify any potential security vulnerabilities that may arise from improper data handling or processing12

NEW QUESTION # 27
What are the three primary goals of the secure software development process?

* A. Confidentiality, integrity, and availability
* B. Cost, speed to market, and profitability
* C. Redundancy, scalability, and portability
* D. Performance, reliability, and maintainability

Answer: A

Explanation:
The three primary goals of the secure software development process, often referred to as the CIA triad, are confidentiality, integrity, and availability. These principles form the cornerstone of security considerations in the software development life cycle (SDLC).
* Confidentiality ensures that sensitive information is accessed only by authorized individuals and systems. This involves implementing access controls and encryption to protect data from unauthorized access.
* Integrity refers to maintaining the accuracy and consistency of data across its lifecycle. This means that the data is not altered or tampered with by unauthorized entities. Techniques like checksums and digital signatures help ensure data integrity.
* Availability ensures that information and resources are accessible to authorized users when needed. This involves creating resilient systems that can withstand attacks and recover quickly from any disruptions.
By integrating these security goals into each phase of the SDLC, from planning and design to development, testing, and maintenance, organizations can create more secure software systems that are resilient to cyber threats.
References: The information provided here is verified as per the Secure Software Design documents and best practices in the field, as outlined by sources such as Snyk1, GeeksforGeeks2, and SAFECode3.

NEW QUESTION # 28
A product team, consisting of a Scrum Master, a Business Analyst, two Developers, and a Quality Assurance Tester, are on a video call with the Product Owner. The team is reviewing a list of work items to determine how many they feel can be added to their

backlog and completed within the next two-week iteration.
Which Scrum ceremony is the team participating in?

- A. Sprint Planning
- B. Sprint Review
- C. Sprint Retrospective
- D. Daily Scrum

Answer: A

NEW QUESTION # 29

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