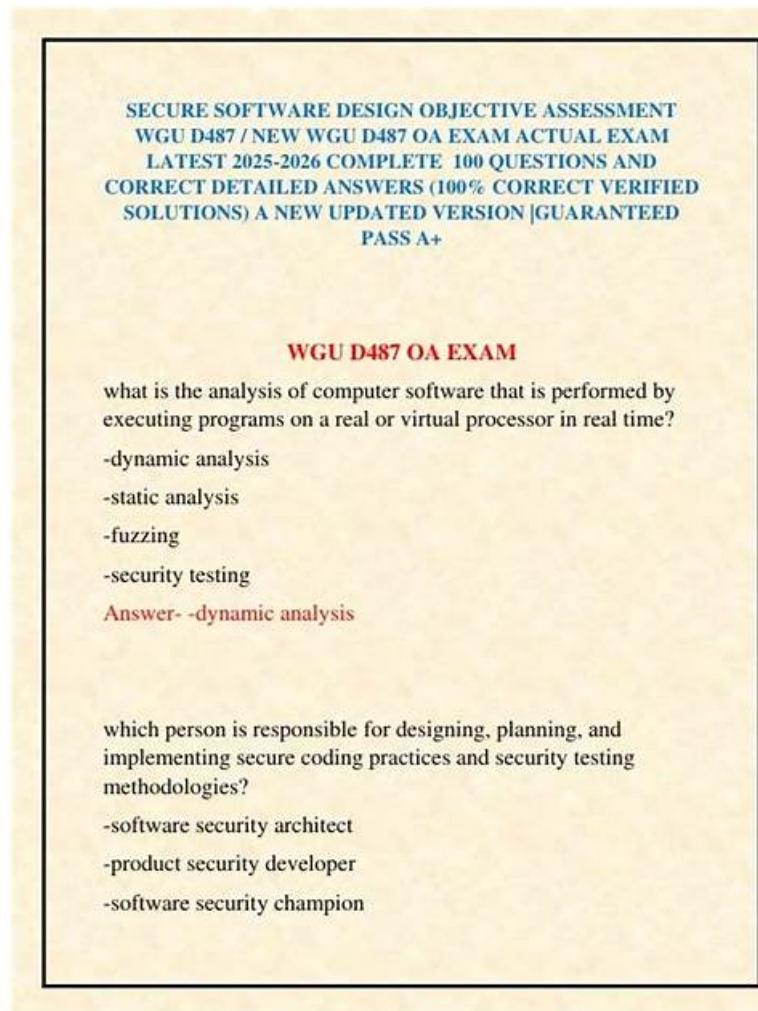


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what is the analysis of computer software that is performed by executing programs on a real or virtual processor in real time?

- 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"><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> |

|         |  |
|---------|--|
| Topic 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>   |
| Topic 3 | <ul style="list-style-type: none"> <li>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.</li> </ul>                              |
| Topic 4 | <ul style="list-style-type: none"> <li>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.</li> </ul> |
| Topic 5 | <ul style="list-style-type: none"> <li>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.</li> </ul>                          |

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### WGU Secure Software Design (KEO1) Exam Sample Questions (Q34-Q39):

#### NEW QUESTION # 34

A legacy application has been replaced by a new product that provides mobile capabilities to the company's customer base. The two products have run concurrently for the last three months to provide a fallback if the new product experienced a large-scale failure. The time has come to turn off access to the legacy application.

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

- A. End of Life
- B. Planning
- C. Maintenance
- D. Design

**Answer: A**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

The scenario outlines the process of decommissioning a legacy application after a new product has successfully taken over its functions. This corresponds to the End of Life phase in the Software Development Life Cycle (SDLC).

The End of Life phase involves retiring outdated systems and transitioning users to newer solutions. This phase ensures that obsolete applications are systematically phased out, reducing maintenance costs and potential security vulnerabilities associated with unsupported software.

In this case, running both the legacy and new applications concurrently provided a safety net to ensure the new system's stability. After confirming the new product's reliability, the organization proceeds to disable the legacy system, marking its End of Life.

References:

\* Systems Development Life Cycle

### NEW QUESTION # 35

While performing functional testing of the new product from a shared machine, a QA analyst closed their browser window but did not logout of the application. A different QA analyst accessed the application an hour later and was not prompted to login. They then noticed the previous analyst was still logged into the application.

How should existing security controls be adjusted to prevent this in the future?

- A. Ensure user sessions timeout after short intervals
- B. Ensure role-based access control is enforced for access to all resources
- C. Ensure strong password policies are enforced
- D. Ensure no sensitive information is stored in plain text in cookies

**Answer: A**

Explanation:

The issue described involves a session management vulnerability where the user's session remains active even after the browser window is closed, allowing another user on the same machine to access the application without logging in. To prevent this security risk, it's essential to adjust the session management controls to include an automatic timeout feature. This means that after a period of inactivity, or when the browser window is closed, the session should automatically expire, requiring a new login to access the application.

This adjustment ensures that even if a user forgets to log out, their session won't remain active indefinitely, reducing the risk of unauthorized access.

References:

- \* Secure SDLC practices emphasize the importance of security at every stage of the software development life cycle, including the implementation of proper session management controls<sup>12</sup>.
- \* Best practices for access control in security highlight the significance of managing session timeouts to prevent unauthorized access<sup>3</sup>.
- \* Industry standards and guidelines often recommend session timeouts as a critical security control to protect against unauthorized access<sup>4</sup>.

### NEW QUESTION # 36

Which type of security analysis is limited by the fact that a significant time investment of a highly skilled team member is required?

- A. Fuzz testing
- B. Manual code review
- C. Dynamic code analysis
- D. Static code analysis

**Answer: B**

Explanation:

Manual code review is a type of security analysis that requires a significant time investment from a highly skilled team member. This process involves a detailed and thorough examination of the source code to identify security vulnerabilities that automated tools might miss. It is labor-intensive because it relies on the expertise of the reviewer to understand the context, logic, and potential security implications of the code.

Unlike automated methods like static or dynamic code analysis, manual code review demands a deep understanding of the codebase, which can be time-consuming and requires a high level of skill and experience.

References: The information provided here is based on industry best practices and standards for secure software design and development, as well as my understanding of security analysis methodologies<sup>12</sup>.

### NEW QUESTION # 37

Due to positive publicity from the release of the new software product, leadership has decided that it is in the best interests of the company to become ISO 27001 compliant. ISO 27001 is the leading international standard focused on information security.

Which security development life cycle deliverable is being described?

- A. Post-release certifications
- B. Security strategy for M&A products
- C. Third-party security review
- D. External vulnerability disclosure response process

**Answer: A**

Explanation:

Comprehensive and Detailed In-Depth Explanation:

ISO/IEC 27001 is an international standard that outlines the requirements for establishing, implementing, maintaining, and continually improving an information security management system (ISMS). Achieving ISO 27001 certification demonstrates an organization's commitment to information security and provides assurance to customers and stakeholders that security best practices are in place.

In the context of the software development life cycle (SDLC), post-release certifications refer to obtaining formal certifications, such as ISO 27001, after a product has been developed and released. This process involves a comprehensive assessment of the organization's information security practices to ensure they align with the standards set forth by ISO 27001. The certification process typically includes:

- \* Gap Analysis: Evaluating existing information security measures against ISO 27001 requirements to identify areas needing improvement.
- \* Implementation: Addressing identified gaps by implementing necessary policies, procedures, and controls.
- \* Internal Audit: Conducting internal audits to verify the effectiveness of the ISMS and readiness for external assessment.
- \* External Audit: Engaging an accredited certification body to perform a thorough evaluation, leading to certification if compliance is demonstrated.

By pursuing ISO 27001 certification post-release, the company aims to enhance its security posture, comply with international standards, and build trust with its customer base.

References:

- \* ISO/IEC 27001:2022 - Information Security Management Systems

**NEW QUESTION # 38**

Recent vulnerability scans discovered that the organization's production web servers were responding to ping requests with server type, version, and operating system, which hackers could leverage to plan attacks.

How should the organization remediate this vulnerability?

- A. Always uninstall or disable features that are not required
- B. Ensure servers are configured to return as little information as possible to network requests
- C. Access to configuration files is limited to administrators
- D. Ensure servers are regularly updated with the latest security patches

**Answer: B**

Explanation:

To remediate the vulnerability of servers responding to ping requests with sensitive information, the organization should configure the servers to return as little information as possible to network requests. This practice is known as reducing the attack surface. By limiting the amount of information disclosed, potential attackers have less data to use when attempting to exploit vulnerabilities.

Regular updates and patching (Option B) are also important, but they do not address the specific issue of information disclosure. Uninstalling or disabling unnecessary features (Option C) and restricting access to configuration files (Option D) are good security practices, but they do not directly prevent the leakage of server information through ping responses.

: The remediation steps are aligned with best practices in vulnerability management, which include finding, prioritizing, and fixing vulnerabilities, as well as configuring servers to minimize the exposure of sensitive information123.

**NEW QUESTION # 39**

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As the tech industry continues to evolve and adapt to new technologies, professionals who hold the WGU Secure Software Design (KEO1) Exam (Secure-Software-Design) certification are better equipped to navigate these changes and stay ahead of the curve, increasing their value to employers and clients. In today's fast-paced and ever-changing WGU sector, having the WGU Secure-Software-Design Certification has become a necessary requirement for individuals looking to advance their careers and stay competitive in the job market.

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