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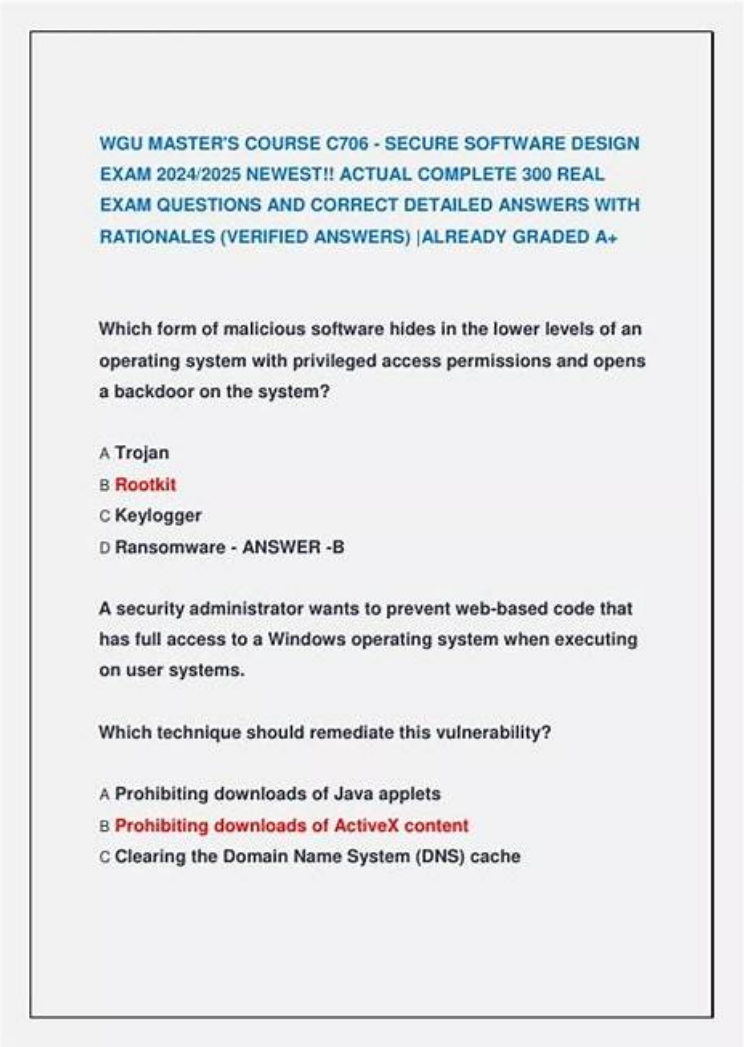

WGU MASTER'S COURSE C706 - SECURE SOFTWARE DESIGN EXAM 2024/2025 NEWEST!! ACTUAL COMPLETE 300 REAL EXAM QUESTIONS AND CORRECT DETAILED ANSWERS WITH RATIONALES (VERIFIED ANSWERS) |ALREADY GRADED A+

Which form of malicious software hides in the lower levels of an operating system with privileged access permissions and opens a backdoor on the system?

A Trojan
B Rootkit
C Keylogger
D Ransomware - ANSWER -B

A security administrator wants to prevent web-based code that has full access to a Windows operating system when executing on user systems.

Which technique should remediate this vulnerability?

A Prohibiting downloads of Java applets
B Prohibiting downloads of ActiveX content
C Clearing the Domain Name System (DNS) cache

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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	• 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 3	• 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 4	• 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.

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WGUSecure Software Design (KEO1) Exam Sample Questions (Q12-Q17):

NEW QUESTION # 12
The software security group is conducting a maturity assessment using the Open Web Application Security Project Software Assurance Maturity Model (OWASP OpenSAMM). They are currently focused on reviewing design artifacts to ensure they comply with organizational security standards.
Which OpenSAMM business function is being assessed?

- A. Construction
- B. Verification
- C. Deployment
- D. Governance

Answer: B

Explanation:
The OpenSAMM business function being assessed is Verification. This function involves activities related to reviewing and testing to ensure that the software meets the required security standards and practices. In the context of the question, the software security group's focus on reviewing design artifacts to ensure compliance with organizational security standards falls under the Verification function. This includes tasks such as design review, implementation review, and security testing, which are all aimed at verifying that the security measures and controls are correctly integrated into the software design.
References: The information is verified as per the OWASP SAMM documentation, which outlines the Verification function as a core business function that encompasses activities like design review, which is directly related to the assessment of design artifacts mentioned in the question1.

NEW QUESTION # 13
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. Requirements
- B. Testing
- C. Design
- D. Deployment

Answer: B

Explanation:
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

NEW QUESTION # 14
Using a web-based common vulnerability scoring system (CVSS) calculator, a security response team member performed an assessment on a reported vulnerability in the company's claims intake component. The base score of the vulnerability was 3.5 and changed to 5.9 after adjusting temporal and environmental metrics.
Which rating would CVSS assign this vulnerability?

- A. High severity
- B. Critical severity
- C. Medium severity
- D. Low severity

Answer: A

Explanation:
The Common Vulnerability Scoring System (CVSS) uses the following ranges to determine the severity rating of a vulnerability:
* 0.1 - 3.9: Low severity
* 4.0 - 6.9: Medium severity
* 7.0 - 8.9: High severity
* 9.0 - 10.0: Critical severity
Since the adjusted score for the vulnerability is 5.9, it falls within the High severity range.
References:
CVSS v3.1 Specification Document - FIRST: https://www.first.org/cvss/specification-document National Vulnerability Database (NVD) - NIST: https://nvd.nist.gov/vuln-metrics/cvss

NEW QUESTION # 15
A new product does not display personally identifiable information, will not let private documents be printed, and requires elevation of privilege to retrieve archive documents. Which secure coding practice is this describing?

- A. Input validation
- B. Authentication
- C. Access control
- D. Data protection

Answer: C

Explanation:
The secure coding practice being described is Access Control. This practice ensures that access to data and features within a system is restricted and controlled. The description given indicates that the product has mechanisms to prevent the display of personally identifiable information (PII), restrict the printing of private documents, and require elevated privileges to access archived documents. These are all measures to control who has access to what data and under what circumstances, which is the essence of access control.
References:
* ISO/IEC 27018 Code of Practice for Protecting Personal Data in the Cloud1.
* NIST SP 800-122, Guide to Protecting the Confidentiality of Personally Identifiable Information (PII)2.
* ISO/IEC 29151:2017, Code of practice for personally identifiable information protection3.

NEW QUESTION # 16
In which step of the PASTA threat modeling methodology will the team capture infrastructure, application, and software dependencies?

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

Answer: D

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 # 17
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