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COMPTIA SECURITYX EXAM OVERVIEW

Exam Code	CAS-005
Exam Duration	165 minutes
Number of Questions	Maximum 90 questions
Question Types	Multiple Choice & Performance-based
Passing Score	Pass/Fail only (no scaled score)
Recommended Experience	10+ years in IT (5+ years in security)
Testing Provider	Pearson VUE (Test center or online)
Launch Date	December 17, 2024
Certification Validity	3 years (renewable through continuing education)

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CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems.

Topic 2	<ul style="list-style-type: none"> • Governance, Risk, and Compliance: This section of the exam measures the skills of CompTIA security architects that cover the implementation of governance components based on organizational security requirements, including developing policies, procedures, and standards. Candidates will learn about managing security programs, including awareness training on phishing and social engineering.
Topic 3	<ul style="list-style-type: none"> • Security Engineering: This section measures the skills of CompTIA security architects that involve troubleshooting common issues related to identity and access management (IAM) components within an enterprise environment. Candidates will analyze requirements to enhance endpoint and server security while implementing hardware security technologies. This domain also emphasizes the importance of advanced cryptographic concepts in securing systems.
Topic 4	<ul style="list-style-type: none"> • Security Operations: This domain is designed for CompTIA security architects and covers analyzing data to support monitoring and response activities, as well as assessing vulnerabilities and recommending solutions to reduce attack surfaces. Candidates will apply threat-hunting techniques and utilize threat intelligence concepts to enhance operational security.

CompTIA SecurityX Certification Exam Sample Questions (Q329-Q334):

NEW QUESTION # 329

An organization found a significant vulnerability associated with a commonly used package in a variety of operating systems. The organization develops a registry of software dependencies to facilitate incident response activities. As part of the registry, the organization creates hashes of packages that have been formally vetted. Which of the following attack vectors does this registry address?

- A. Pass-the-hash attack: This attack involves using a stolen hash of a user's password to authenticate without needing the actual password. It's unrelated to software package integrity.
- B. Pass-the-hash attack
- C. Cipher substitution attack
- D. On-path attack
- E. **Supply chain attack**
- F. Side-channel analysis

Answer: E

Explanation:

Why A is the Correct answer:

A supply chain attack is exactly what the organization is trying to mitigate. By creating a registry of known-good software packages and their hashes, they can verify that the packages they are using are legitimate and haven't been altered.

If an attacker were to compromise a software package in the supply chain, the hash of the altered package would not match the hash in the organization's registry. This would immediately alert the organization to a potential compromise.

CASP+ Relevance: This aligns with the CASP+ exam objectives, which emphasize the importance of risk management, threat intelligence, and implementing security controls to address various attack vectors, including supply chain risks.

How the Registry Works (Elaboration based on CASP+ principles):

Hashing: When a package is vetted, a cryptographic hash function (like SHA-256) is used to generate a unique "fingerprint" (the hash) of the package's contents.

Verification: Before installing or using a package, its hash is calculated and compared to the hash stored in the registry. A match confirms the package's integrity. A mismatch indicates tampering.

Incident Response: If a vulnerability is discovered in a commonly used package, the registry helps the organization quickly identify which systems are affected based on the dependency list and the stored hashes.

Explanation:

Comprehensive and Detailed Step by Step

Understanding the Scenario: The question describes a proactive security measure where an organization maintains a registry of software dependencies and their corresponding hashes. This registry is used to verify the integrity of software packages.

Analyzing the Answer Choices:

A. Supply chain attack: This type of attack involves compromising the software supply chain by injecting malicious code into legitimate software packages.

Reference:

B. Cipher substitution attack: This is a cryptographic attack focused on replacing ciphertext with a different ciphertext to deduce the key. It's not relevant to the scenario.

C Side-channel analysis: This attack involves gathering information from the physical implementation of a system (e.g., timing, power consumption) rather than exploiting the algorithm itself. It's not applicable here.

D . On-path attack (formerly man-in-the-middle): This attack involves intercepting and potentially altering communication between two parties. While important, it's not the primary focus of the registry.

NEW QUESTION # 330

Company A and Company D are merging. Company A's compliance reports indicate branch protections are not in place. A security analyst needs to ensure that potential threats to the software development life cycle are addressed. Which of the following should the analyst consider when completing this basic?

- A. If developers are unable to promote to production
- B. If DAST code is being stored to a single code repository
- C. If role-based training is deployed
- **D. If DAST scans are routinely scheduled**
- E. If role-based training is deployed: While important, training alone does not ensure continuous security assessment.

Answer: D

Explanation:

Dynamic Application Security Testing (DAST) is crucial for identifying and addressing security vulnerabilities during the software development life cycle (SDLC). Ensuring that DAST scans are routinely scheduled helps in maintaining a secure development process.

Why Routine DAST Scans?

Continuous Security Assessment: Regular DAST scans help in identifying vulnerabilities in real-time, ensuring they are addressed promptly.

Compliance: Routine scans ensure that the development process complies with security standards and regulations.

Proactive Threat Mitigation: Regular scans help in early detection and mitigation of potential security threats, reducing the risk of breaches.

Integration into SDLC: Ensures security is embedded within the development process, promoting a security-first approach.

Other options, while relevant, do not directly address the continuous assessment and proactive identification of threats:

A . If developers are unable to promote to production: This is more of an operational issue than a security assessment.

B . If DAST code is being stored to a single code repository: This concerns code management rather than security testing frequency.

Reference:

CompTIA SecurityX Study Guide

OWASP Testing Guide

NIST Special Publication 800-53, "Security and Privacy Controls for Information Systems and Organizations"

NEW QUESTION # 331

An organization determines existing business continuity practices are inadequate to support critical internal process dependencies during a contingency event. A compliance analyst wants the Chief Information Officer (CIO) to identify the level of residual risk that is acceptable to guide remediation activities. Which of the following does the CIO need to clarify?

- A. Impact
- **B. Appetite**
- C. Mitigation
- D. Likelihood

Answer: B

Explanation:

Risk appetite defines the level of residual risk an organization is willing to accept. The CIO must clarify this to guide remediation activities and align business continuity practices with organizational tolerance.

NEW QUESTION # 332

A cyberanalyst has been tasked with recovering PDF files from a provided image file. Which of the following is the best file-carving tool for PDF recovery?

- A. Strings
- B. objdump
- C. dd
- **D. Foremost**

Answer: D

Explanation:

Foremost is a dedicated file-carving utility that scans raw disk images for known file headers and footers, such as PDF's %PDF- and %%EOF, and extracts intact documents without relying on filesystem metadata. This makes it the go-to tool for recovering PDFs from a forensic image.

NEW QUESTION # 333

A security engineer is reviewing the results of an annual penetration test. The report lists one of the results as "critical severity" on several domain-joined workstations:

SSL/TLS Weak Protocols Supported TLS 1.0, TLS 1.1

Which of the following should the security engineer implement to remediate this finding in the most centralized manner?

- A. An SCCM patch to disable weak protocols in the Schannel hive
- B. A registry script to disable weak protocols in the Schannel hive
- C. A PowerShell script to disable weak protocols in the HKLM Schannel hive
- **D. A GPO to disable weak protocols in the Schannel hive**

Answer: D

Explanation:

A Group Policy Object (GPO) is the most centralized and scalable way to implement this change across multiple domain-joined workstations. By configuring a GPO to disable weak protocols (TLS 1.0 and TLS 1.1) in the Schannel hive, the security engineer can ensure consistent enforcement across all affected systems in the domain without needing to manually configure each machine individually.

NEW QUESTION # 334

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