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Exam : **CAS-005**

Title : CompTIA SecurityX
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CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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.
Topic 4	<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.

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CompTIA SecurityX Certification Exam Sample Questions (Q33-Q38):

NEW QUESTION # 33

An organization plans to deploy new software. The project manager compiles a list of roles that will be involved in different phases of the deployment life cycle. Which of the following should the project manager use to track these roles?

- A. RACI matrix
- B. Recall tree
- C. ITIL
- D. CMDB

Answer: A

Explanation:

* RACI matrix(Responsible, Accountable, Consulted, Informed) is used for role mapping across the project lifecycle.

* CMDB is a configuration inventory; ITIL is a framework. Recall trees are for disaster recovery /business continuity.

* FromCAS-005, Domain 1: Security Governance and Compliance:

* "The RACI matrix is essential in role assignment and accountability for software development and operational processes."

Reference:CAS-005 Official Guide, Chapter 3: Governance Frameworks, pg. 78-79

NEW QUESTION # 34

A company needs to quickly assess whether software deployed across the company's global corporate network contains specific software libraries. Which of the following best enables the company's SOC to respond quickly when such an assessment is required?

- A. Requiring all suppliers and internal developers to implement a thorough SBoM
- B. Contractually requiring all software vendors to attest to third-party risk mitigations
- C. Implementing a GRC tool to maintain a list of all software vendors and internal developers
- D. Maintaining SAST/DAST reports on a server with access restricted to SOC staff

Answer: A

Explanation:

A Software Bill of Materials (SBoM) provides an inventory of all libraries and components in deployed software. Maintaining SBoMs allows the SOC to quickly identify affected systems when a vulnerable library is discovered, enabling a rapid and accurate response.

NEW QUESTION # 35

Recent reports indicate that a software tool is being exploited. Attackers were able to bypass user access controls and load a database. A security analyst needs to find the vulnerability and recommend a mitigation.

The analyst generates the following output:

□ Which of the following would the analyst most likely recommend?

- A. Installing appropriate EDR tools to block pass-the-hash attempts
- **B. Removing hard coded credentials from the source code**
- C. Not allowing users to change their local passwords
- D. Adding additional time to software development to perform fuzz testing

Answer: B

Explanation:

The output indicates that the software tool contains hard-coded credentials, which attackers can exploit to bypass user access controls and load the database. The most likely recommendation is to remove hard-coded credentials from the source code. Here's why:

Security Best Practices: Hard-coded credentials are a significant security risk because they can be easily discovered through reverse engineering or simple inspection of the code. Removing them reduces the risk of unauthorized access.

Credential Management: Credentials should be managed securely using environment variables, secure vaults, or configuration management tools that provide encryption and access controls.

Mitigation of Exploits: By eliminating hard-coded credentials, the organization can prevent attackers from easily bypassing authentication mechanisms and gaining unauthorized access to sensitive systems.

References:

CompTIA Security+ SY0-601 Study Guide by Mike Chapple and David Seidl

OWASP Top Ten: Insecure Design

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

NEW QUESTION # 36

A security analyst discovered requests associated with IP addresses known for both legitimate and bot-related traffic. Which of the following should the analyst use to determine whether the requests are malicious?

- **A. User-agent string**
- B. Byte length of the request
- C. Web application headers
- D. HTML encoding field

Answer: A

Explanation:

The user-agent string can provide valuable information to distinguish between legitimate and bot-related traffic. It contains details about the browser, device, and sometimes the operating system of the client making the request.

Why Use User-Agent String?

* **Identify Patterns:** User-agent strings can help identify patterns that are typical of bots or legitimate users.

* **Block Malicious Bots:** Many bots use known user-agent strings, and identifying these can help block malicious requests.

* **Anomalies Detection:** Anomalous user-agent strings can indicate spoofing attempts or malicious activity.

Other options provide useful information but may not be as effective for initial determination of the nature of the request:

* **B. Byte length of the request:** This can indicate anomalies but does not provide detailed information about the client.

* **C. Web application headers:** While useful, they may not provide enough distinction between legitimate and bot traffic.

* **D. HTML encoding field:** This is not typically used for identifying the nature of the request.

References:

* CompTIA SecurityX Study Guide

* "User-Agent Analysis for Security," OWASP

* NIST Special Publication 800-94, "Guide to Intrusion Detection and Prevention Systems (IDPS)"

NEW QUESTION # 37

A company wants to implement hardware security key authentication for accessing sensitive information systems. The goal is to prevent unauthorized users from gaining access with a stolen password. Which of the following models should the company implement to best solve this issue?

- A. Time-based
- B. Rule based
- C. Context-based
- D. Role based

Answer: C

Explanation:

Context-based authentication enhances traditional security methods by incorporating additional layers of information about the user's current environment and behavior. This can include factors such as the user's location, the time of access, the device used, and the behavior patterns. It is particularly useful in preventing unauthorized access even if an attacker has obtained a valid password.

Rule-based (A) focuses on predefined rules and is less flexible in adapting to dynamic threats.

Time-based (B) authentication considers the time factor but doesn't provide comprehensive protection against stolen credentials.

Role-based (C) is more about access control based on the user's role within the organization rather than authenticating the user based on current context.

By implementing context-based authentication, the company can ensure that even if a password is compromised, the additional contextual factors required for access (which an attacker is unlikely to possess) provide a robust defense mechanism.

Reference:

CompTIA SecurityX guide on authentication models and best practices.

NIST guidelines on authentication and identity proofing.

Analysis of multi-factor and adaptive authentication techniques.

NEW QUESTION # 38

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