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CompTIA SecurityX Certification Exam Sample Questions (Q127-Q132):

NEW QUESTION # 127

An audit finding reveals that a legacy platform has not retained logs for more than 30 days. The platform has been segmented due to its interoperability with newer technology. As a temporary solution, the IT department changed the log retention to 120 days. Which of the following should the security engineer do to ensure the logs are being properly retained?

- A. Configure a Python script to move the logs into a SQL database.
- B. Configure event-based triggers to export the logs at a threshold.
- C. Configure a scheduled task nightly to save the logs
- D. Configure the SIEM to aggregate the logs

Answer: D

Explanation:

To ensure that logs from a legacy platform are properly retained beyond the default retention period, configuring the SIEM to aggregate the logs is the best approach. SIEM solutions are designed to collect, aggregate, and store logs from various sources,

providing centralized log management and retention. This setup ensures that logs are retained according to policy and can be easily accessed for analysis and compliance purposes.

NEW QUESTION # 128

A company's internal network is experiencing a security breach, and the threat actor is still active. Due to business requirements, users in this environment are allowed to utilize multiple machines at the same time.

Given the following log snippet:

Time	User	Process	Status	Machine
10:11	user-a	.exe	blocked	machine02
10:15	user-b	setup.exe	blocked	machine02
10:15	user-A	appwiz.exe	blocked	machine01
10:16	user-c	appwiz.CPL	blocked	machine03
11:17	user-c	cmd.exe	blocked	machine03
11:18	user-h	msconfig.exe	blocked	machine04
11:19	user-d	firefox.exe	blocked	machine04
11:19	user-d	cmd.com	blocked	machine01

Which of the following accounts should a security analyst disable to best contain the incident without impacting valid users?

- A. user-a
- B. user-c
- C. user-b
- D. user-d

Answer: B

Explanation:

User user-c is showing anomalous behavior across multiple machines, attempting to run administrative tools such as cmd.exe and appwiz.CPL, which are commonly used by attackers for system modification. The activity pattern suggests a lateral movement attempt, potentially indicating a compromised account.

* user-a (A) and user-b (B) attempted to run applications but only on one machine, suggesting less likelihood of compromise.

* user-d (D) was blocked running cmd.com, but user-c's pattern is more consistent with an attack technique.

Reference: CompTIA SecurityX (CAS-005) Exam Objectives- Domain 4.0 (Security Operations), Section on Threat Intelligence and Indicators of Attack

NEW QUESTION # 129

A security analyst is reviewing the following log:

Time	File type	Size	Antivirus status	Location
11:25	txt	25mb	block	c:\temp
11:27	dll	10mb	allow	c:\temp
11:29	doc	37mb	block	c:\users\user1\Desktop
11:32	pdf	13mb	allow	c:\users\user2\Downloads
11:35	txt	49mb	allow	c:\users\user2\Documents

Which of the following possible events should the security analyst investigate further?

- A. A text file containing passwords that were leaked
- B. A PDF that exposed sensitive information improperly
- C. A malicious file that was run in this environment
- D. A macro that was prevented from running

Answer: A

Explanation:

Based on the log provided, the most concerning event that should be investigated further is the presence of a text file containing passwords that were leaked. Here's why:

Sensitive Information Exposure: A text file containing passwords represents a significant security risk, as it indicates that sensitive credentials have been exposed in plain text, potentially leading to unauthorized access.

Immediate Threat: Password leaks can lead to immediate exploitation by attackers, compromising user accounts and sensitive data. This requires urgent investi

NEW QUESTION # 130

After a company discovered a zero-day vulnerability in its VPN solution, the company plans to deploy cloud- hosted resources to replace its current on-premises systems. An engineer must find an appropriate solution to facilitate trusted connectivity. Which of the following capabilities is the most relevant?

- A. Microsegmentation
- B. Conditional access
- C. Secure access service edge
- D. Container orchestration

Answer: C

Explanation:

Comprehensive and Detailed Explanation:

The scenario involves replacing an on-premises VPN solution, which has a zero-day vulnerability, with cloud- hosted resources while ensuring trusted connectivity. Trusted connectivity in a cloud environment implies secure, scalable, and modern access control that goes beyond traditional VPNs. Let's analyze the options:

* A. Container orchestration: This refers to managing and automating containerized workloads (e.g., Kubernetes). While useful for application deployment, it doesn't directly address secure connectivity to cloud resources.

* B. Microsegmentation: This involves creating fine-grained security policies within a network to limit lateral movement. It's valuable for internal security but isn't a complete solution for trusted connectivity to cloud-hosted resources.

* C. Conditional access: This ensures access based on conditions (e.g., user identity, device health). It's relevant for identity management but lacks the broader networking and security scope needed here.

NEW QUESTION # 131

Which of the following key management practices ensures that an encryption key is maintained within the organization?

- A. Encrypting using a key escrow process for storage of the encryption key
- B. Encrypting using encryption and key storage systems provided by the cloud provider
- C. Encrypting using a key stored in an on-premises hardware security module
- D. Encrypting using server-side encryption capabilities provided by the cloud provider

Answer: C

Explanation:

Step by Step Explanation:

Understanding the Scenario: The question is about ensuring that an organization retains control over its encryption keys. It focuses on different key storage and management methods.

Analyzing the Answer Choices:

A). Encrypting using a key stored in an on-premises hardware security module (HSM): This is the best option for maintaining complete control over encryption keys. An HSM is a dedicated, tamper-resistant hardware device specifically designed for secure key storage and cryptographic operations. Storing keys on-premises within an HSM ensures the organization has exclusive access. Reference: HSMs are a core component of strong key management practices, often discussed in CASP+ material related to cryptography and data protection.

B). Encrypting using server-side encryption capabilities provided by the cloud provider: With server-side encryption, the cloud provider typically manages the encryption keys. This means the organization is relinquishing some control over the keys.

C). Encrypting using encryption and key storage systems provided by the cloud provider: Similar to option B, using cloud-provider-managed key storage systems means the organization doesn't have full, exclusive control over the keys.

D). Encrypting using a key escrow process for storage of the encryption key: Key escrow involves entrusting a third party with a copy of the encryption key. This introduces a potential security risk, as the organization no longer has sole control over the key. Also, the key is not maintained within the organization.

Reference: Key escrow is sometimes used for data recovery, but it's generally not recommended for maintaining the highest level of

security and control over encryption keys. This is relevant to CASP+ discussions on risk assessment and key management best practices.

Why A is the Correct answer:

Control: On-premises HSMs provide the highest level of control over encryption keys. The organization has physical and logical control over the HSM and the keys stored within it.

Security: HSMs are designed to be tamper-resistant and protect keys from unauthorized access, even if the surrounding systems are compromised.

Compliance: In some industries, regulatory requirements may mandate that organizations maintain direct control over their encryption keys. On-premises HSMs can help meet these requirements.

CASP+ Relevance: HSMs, key management, and data encryption are fundamental topics in CASP+. The exam emphasizes understanding the security implications of different key management approaches.

Elaboration on Key Management Principles:

Key Lifecycle Management: Proper key management involves managing the entire lifecycle of a key, from generation and storage to rotation and destruction.

Separation of Duties: It's generally a good practice to separate the roles of key management and data encryption to enhance security.

Access Control: Strict access controls should be in place to limit who can access and use encryption keys.

In conclusion, using an on-premises HSM for key storage is the best way to ensure that an organization maintains control over its encryption keys. It provides the highest level of security and control, aligning with best practices in cryptography and key management as emphasized in the CASP+ exam objectives.

NEW QUESTION # 132

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