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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 (Q292-Q297):

NEW QUESTION # 292

A user reports application access issues to the help desk. The help desk reviews the logs for the user

Which of the following is most likely The reason for the issue?

- A. The user is not allowed to access the human resources system outside of business hours
- B. The user did not attempt to connect from an approved subnet
- C. A threat actor has compromised the user ' s account and attempted to log, m
- **D. The user inadvertently tripped the impossible travel security rule in the SSO system.**

Answer: D

Explanation:

Based on the provided logs, the user has accessed various applications from different geographic locations within a very short timeframe. This pattern is indicative of the " impossible travel " security rule, a common feature in Single Sign-On (SSO) systems designed to detect and prevent fraudulent access attempts.

Analysis of Logs:

At 8:47 p.m., the user accessed a VPN from Toronto.

At 8:48 p.m., the user accessed email from Los Angeles.

At 8:48 p.m., the user accessed the human resources system from Los Angeles.

At 8:49 p.m., the user accessed email again from Los Angeles.

At 8:52 p.m., the user attempted to access the human resources system from Toronto, which was denied.

These rapid changes in location are physically impossible and typically trigger security measures to prevent unauthorized access. The SSO system detected these inconsistencies and likely flagged the activity as suspicious, resulting in access denial.

References:

CompTIA SecurityX Study Guide

NIST Special Publication 800-63B, " Digital Identity Guidelines "

" Impossible Travel Detection, " Microsoft Documentation

NEW QUESTION # 293

A vulnerability scan was performed on a website, and the following encryption suites were found:

Which of the following actions will remediate the vulnerability?

- A. Deploying a WAF to monitor web traffic
- B. Rearranging the order of the ciphers from strongest to weakest
- C. Reissuing new SSL certificates for the website
- **D. Removing any ciphers utilizing cipher block chaining**

Answer: D

Explanation:

Cipher suites that use CBC (Cipher Block Chaining), such as TLS_ECDHE_RSA_WITH_AES_128_CBC_SHA256 and

TLS_RSA_WITH_AES_128_CBC_SHA, are vulnerable to padding oracle and related attacks.

Removing CBC-based ciphers ensures only modern and secure cipher suites (e.g., GCM, ChaCha20) are used, remediating the vulnerability.

NEW QUESTION # 294

To prevent data breaches, security leaders at a company decide to expand user education to:

- * Create a healthy security culture.
- * Comply with regulatory requirements.
- * Improve incident reporting.

Which of the following would best meet their objective?

- A. Deploying fake ransomware
- B. Performing a DoS attack
- C. Scheduling regular penetration tests
- **D. Simulating a phishing campaign**

Answer: D

Explanation:

Phishing

SIMULATIONS are a proven method for reinforcing security awareness, meeting compliance training requirements, and improving user incident reporting. In CAS-005, social engineering testing is a recommended component of organizational security culture programs.

DoS attacks (A) and penetration tests (B) assess technical security, not user awareness.

Fake ransomware (D) can cause unnecessary alarm and operational disruption.

NEW QUESTION # 295

An organization wants to implement a platform to better identify which specific assets are affected by a given vulnerability. Which of the following components provides the best foundation to achieve this goal?

- A. SASE
- B. SBoM
- C. SLM
- **D. CMDB**

Answer: D

Explanation:

A Configuration Management Database (CMDB) provides the best foundation for identifying which specific assets are affected by a given vulnerability. A CMDB maintains detailed information about the IT environment, including hardware, software, configurations, and relationships between assets. This comprehensive view allows organizations to quickly identify and address vulnerabilities affecting specific assets.

References:

- * CompTIA SecurityX Study Guide: Discusses the role of CMDBs in asset management and vulnerability identification.
- * ITIL (Information Technology Infrastructure Library) Framework: Recommends the use of CMDBs for effective configuration and asset management.
- * "Configuration Management Best Practices" by Bob Aiello and Leslie Sachs: Covers the importance of CMDBs in managing IT assets and addressing vulnerabilities.

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