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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 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.

CompTIA SecurityX Certification Exam Sample Questions (Q341-Q346):

NEW QUESTION # 341

Which of the following tests explains why AI output could be inaccurate?

- **A. Model poisoning**
- B. Prompt injections
- C. Social engineering
- D. Output handling

Answer: A

Explanation:

Comprehensive and Detailed Explanation:

Model poisoning occurs when an attacker manipulates the training data or the training process of an AI model so that its predictions are deliberately inaccurate or biased. In the SecurityX CAS-005 objectives, this is part of understanding emerging technology threats, specifically AI/ML vulnerabilities. This differs from:

* Social engineering, which manipulates humans rather than AI models.

* Output handling, which deals with how outputs are processed but doesn't cause inaccuracy at the model level.

* Prompt injections, which manipulate the model at query time, not during training. Because model poisoning directly corrupts the AI model itself, it is the clearest reason AI outputs could be inaccurate.

NEW QUESTION # 342

A hotel chain wants to use point-of-sale systems to allow customers to check in and out of their rooms without employee assistance. These systems should limit access to a specific set of programs approved to run, with all other programs blocked. Which of the following should the company configure to best support this goal?

- A. Anti-malware on these systems and only approved application file locations can be bypassed
- **B. Application control using a fresh image, with the applications fully configured as a baseline to build and block other applications from execution**
- C. A host-based intrusion detection system to monitor and block all suspicious activities if they occur on the systems
- D. Event logs to be collected from the systems for all security events and some custom application logs

Answer: B

Explanation:

Application control using a baseline image ensures only pre-approved programs are allowed to run, effectively blocking all others. This is the best approach for restricting point-of-sale systems to specific functions and maintaining system integrity in an unattended environment.

NEW QUESTION # 343

An organization recently implemented a policy that requires all passwords to be rotated every 90 days. An administrator observes a large volume of failed sign-on logs from multiple servers that are often accessed by users. The administrator determines users are disconnecting from the RDP session but not logging off. Which of the following should the administrator do to prevent account lockouts?

- A. Increase the account lockout threshold.
- **B. Automate logout of inactive sessions.**
- C. Extend the allowed session length.
- D. Enforce password complexity.

Answer: B

Explanation:

When users disconnect from Remote Desktop Protocol (RDP) sessions without properly logging off, their sessions remain active on the server. If their passwords are changed due to the 90-day rotation policy, these lingering sessions may attempt to reauthenticate using outdated credentials, leading to multiple failed login attempts and potential account lockouts.

Automating the logout of inactive sessions ensures that disconnected or idle sessions are terminated after a specified period, preventing stale sessions from causing authentication issues. This approach aligns with best practices for session management and helps maintain security compliance.

Reference: CompTIA SecurityX CAS-005 Exam Objectives, Domain 3.1: "Given a scenario, troubleshoot common issues with identity and access management (IAM) components in an enterprise environment."

NEW QUESTION # 344

An organization is implementing Zero Trust architecture. A systems administrator must increase the effectiveness of the organization's context-aware access system. Which of the following is the best way to improve the effectiveness of the system?

- A. Secure zone architecture
- B. Always-on VPN
- **C. Microsegmentation**
- D. Accurate asset inventory

Answer: C

Explanation:

Microsegmentation is a critical strategy within Zero Trust architecture that enhances context-aware access systems by dividing the network into smaller, isolated segments. This reduces the attack surface and limits lateral movement of attackers within the network. It ensures that even if one segment is compromised, the attacker cannot easily access other segments. This granular approach to network security is essential for enforcing strict access controls and monitoring within Zero Trust environments.

NEW QUESTION # 345

A company notices that cloud environment costs increased after using a new serverless solution based on API requests. Many invalid requests from unknown IPs were found, often within a short time. Which of the following solutions would most likely solve this issue, reduce cost, and improve security?

- **A. Setting authentication processes for the API requests as well as proper rate limits according to regular usage**
- B. Using digital certificates for known customers and performing API authorization through those certificates
- C. Defining request rate limits and comparing new requests from unknown IPs with a list of known-malicious IPs
- D. Only allowing API requests coming from regions with known customers

Answer: A

Explanation:

The best solution is to implement authentication for API requests and apply appropriate rate limiting (C). Authentication ensures that only authorized customers or systems can access the API, while rate limiting helps prevent denial-of-service (DoS)-like conditions and cost inflation from excessive or malicious requests. This addresses both the security (unauthorized access) and cost issues (serverless billing based on execution).

Option A (digital certificates) is a strong control for authentication but may introduce unnecessary complexity and does not address rate abuse directly. Option B (rate limits with IP reputation checks) is useful but insufficient-malicious actors may rotate through new IPs not yet flagged. Option D (regional restrictions) might reduce some noise traffic but risks blocking legitimate global users and is not scalable for a modern cloud service.

CAS-005 highlights securing APIs with authentication, authorization, and throttling as best practices. Thus, the combined approach of API authentication plus rate limiting is the most comprehensive and effective solution.

NEW QUESTION # 346

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