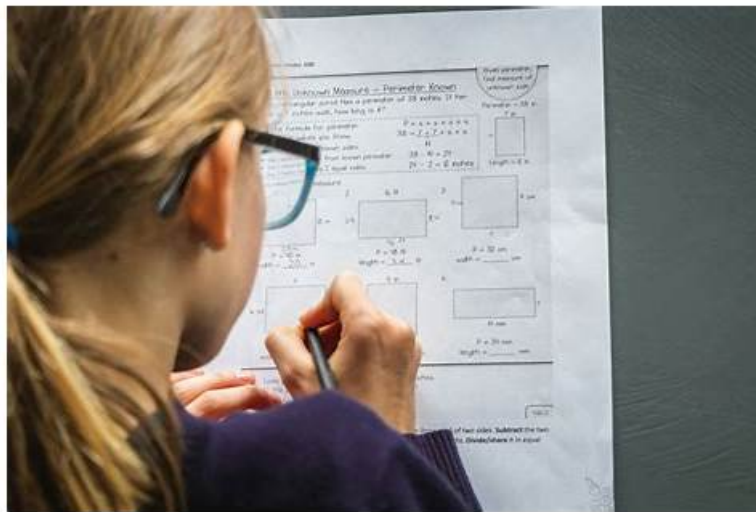


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CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
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 Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems.

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The main key to passing the CAS-005 exam is to use your time affectionately and grasp every topic so you can attempt the maximum number of questions in the actual CAS-005 Exam. By studying the questions mentioned in the prep material, the candidates have control over the exam anxiety in no time.

CompTIA SecurityX Certification Exam Sample Questions (Q345-Q350):

NEW QUESTION # 345

A security administrator is performing a gap assessment against a specific OS benchmark. The benchmark requires the following configurations be applied to endpoints:

- * Full disk encryption
- * Host-based firewall
- * Time synchronization
- * Password policies
- * Application allow listing
- * Zero Trust application access

Which of the following solutions best addresses the requirements? (Select two).

- **A. SASE**
- B. SBoM
- C. CASB
- **D. SCAP**
- E. HIDS

Answer: A,D

Explanation:

To address the specific OS benchmark configurations, the following solutions are most appropriate:

C . SCAP (Security Content Automation Protocol): SCAP helps in automating vulnerability management and policy compliance, including configurations like full disk encryption, host-based firewalls, and password policies.

D . SASE (Secure Access Service Edge): SASE provides a framework for Zero Trust network access and application allow listing, ensuring secure and compliant access to applications and data.

These solutions together cover the comprehensive security requirements specified in the OS benchmark, ensuring a robust security posture for endpoints.

Reference:

CompTIA SecurityX Study Guide: Discusses SCAP and SASE as part of security configuration management and Zero Trust architectures.

NIST Special Publication 800-126, "The Technical Specification for the Security Content Automation Protocol (SCAP)": Details SCAP's role in security automation.

"Zero Trust Networks: Building Secure Systems in Untrusted Networks" by Evan Gilman and Doug Barth: Covers the principles of Zero Trust and how SASE can implement them.

By implementing SCAP and SASE, the organization ensures that all the specified security configurations are applied and maintained effectively.

NEW QUESTION # 346

The Chief Security Officer (CSO) requested the security team implement technical controls that meet the following requirements:

- Monitors traffic to and from both local NAS and cloud-based file repositories
- Prevents on-site staff who are accessing sensitive customer PII documents on file repositories from accidentally or deliberately sharing sensitive documents on personal SaaS solutions
- Uses document attributes to reduce false positives
- Is agentless and not installed on staff desktops or laptops

Which of the following when installed and configured would best meet the CSO's requirements?

(Choose two.)

- **A. CASB**
- B. UEBA

- C. UTM
- D. NGFW
- **E. DLP**
- F. HIPS

Answer: A,E

Explanation:

DLP (Data Loss Prevention): A network-based DLP solution can inspect traffic to and from on-prem NAS devices as well as cloud storage, using document fingerprinting and content-aware rules to reduce false positives without requiring agents on endpoints.
CASB (Cloud Access Security Broker): An agentless CASB sits inline (or via API) between users and cloud services - both sanctioned and unsanctioned - preventing uploads of sensitive PII to personal SaaS apps and enforcing attribute-based policies on documents in cloud repos.

NEW QUESTION # 347

A security architect is mitigating a vulnerability that previously led to a web application data breach. An analysis into the root cause of the issue finds the following:

- * An administrator's account was hijacked and used on several Autonomous System Numbers within 30 minutes.
- * All administrators use named accounts that require multifactor authentication.
- * Single sign-on is used for all company applications. Which of the following should the security architect do to mitigate the issue?

- **A. Enable context-based authentication when network locations change on administrator login attempts.**
- B. Decentralize administrator accounts and force unique passwords for each application.
- C. Configure token theft detection on the single sign-on system with automatic account lockouts.
- D. Enforce biometric authentication requirements for the administrator's named accounts.

Answer: A

Explanation:

Comprehensive and Detailed Explanation:

The hijacked administrator account was used across multiple ASNs (indicating different network locations) in a short time, despite MFA and SSO. This suggests a stolen session or token misuse. Let's analyze:

- * A. Token theft detection with lockouts: Useful for detecting stolen SSO tokens, but it's reactive and may not prevent initial misuse across networks.
- * B. Context-based authentication: This adds real-time checks (e.g., geolocation, IP changes) to verify login attempts. Given the rapid ASN changes, this proactively mitigates the issue by challenging suspicious logins, aligning with CAS-005's focus on adaptive security.
- * C. Decentralize accounts: This removes SSO, increasing complexity and weakening MFA enforcement, which isn't practical or secure.

NEW QUESTION # 348

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

- A. Quantum computers not yet capable
- B. No use cases to drive adoption
- C. Incomplete mathematical primitives
- **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 # 349

A cloud engineer needs to identify appropriate solutions to:

- Provide secure access to internal and external cloud resources.
- Eliminate split-tunnel traffic flows.
- Enable identity and access management capabilities.

Which of the following solutions is the most appropriate?

- **A. SASE**
- B. PAM
- C. SD-WAN
- D. Microsegmentation

Answer: A

Explanation:

SASE (Secure Access Service Edge) is the most appropriate solution because it combines network security and WAN capabilities, providing secure access to both internal and external resources, eliminating split-tunnel traffic, and offering robust identity and access management capabilities. It integrates security directly into the network architecture, which meets all the listed requirements.

NEW QUESTION # 350

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