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Exam : **CAS-005**

Title : CompTIA SecurityX
Certification Exam

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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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CompTIA SecurityX Certification Exam Sample Questions (Q193-Q198):

NEW QUESTION # 193

A security engineer needs to secure the OT environment based on the following requirements

- * Isolate the OT network segment
- * Restrict Internet access.
- * Apply security updates to workstations
- * Provide remote access to third-party vendors

Which of the following design strategies should the engineer implement to best meet these requirements?

- A. Deploy a jump box on the third party network to access the OT environment and provide updates using a physical delivery method on the workstations
- **B. Implement a bastion host in the OT network with security tools in place to monitor access and use a dedicated update server for the workstations.**
- C. Create a staging environment on the OT network for the third-party vendor to access and enable automatic updates on the workstations.
- D. Enable outbound internet access on the OT firewall to any destination IP address and use the centralized update server for the workstations

Answer: B

NEW QUESTION # 194

An organization has been using self-managed encryption keys rather than the free keys managed by the cloud provider. The Chief Information Security Officer (CISO) reviews the monthly bill and realizes the self-managed keys are more costly than anticipated. Which of the following should the CISO recommend to reduce costs while maintaining a strong security posture?

- A. Utilize an on-premises HSM to locally manage keys.
- B. Begin using cloud-managed keys on all new resources deployed in the cloud.
- **C. Adjust the configuration for cloud provider keys on data that is classified as public.**
- D. Extend the key rotation period to one year so that the cloud provider can use cached keys.

Answer: C

Explanation:

Comprehensive and Detailed Step by Step

Understanding the Scenario: The organization is using customer-managed encryption keys in the cloud, which is more expensive than using the cloud provider's free managed keys. The CISO needs to find a way to reduce costs without significantly weakening the security posture.

Analyzing the Answer Choices:

A . Utilize an on-premises HSM to locally manage keys: While on-premises HSMs offer strong security, they introduce additional costs and complexity (procurement, maintenance, etc.). This option is unlikely to reduce costs compared to cloud-based key management.

B . Adjust the configuration for cloud provider keys on data that is classified as public: This is the most practical and cost-effective approach. Data classified as public doesn't require the same level of protection as sensitive data. Using the cloud provider's free managed keys for public data can significantly reduce costs without compromising security, as the data is intended to be publicly accessible anyway.

Reference:

C . Begin using cloud-managed keys on all new resources deployed in the cloud: While this would reduce costs, it's a broad approach that doesn't consider the sensitivity of the data. Applying cloud-managed keys to sensitive data might not be acceptable from a security standpoint.

D . Extend the key rotation period to one year so that the cloud provider can use cached keys: Extending the key rotation period weakens security. Frequent key rotation is a security best practice to limit the impact of a potential key compromise.

Why B is the Correct answer:

Risk-Based Approach: Using cloud-provider-managed keys for public data is a reasonable risk-based decision. Public data, by definition, is not confidential.

Cost Optimization: This directly addresses the CISO's concern about cost, as cloud-provider-managed keys are often free or significantly cheaper.

Security Balance: It maintains a strong security posture for sensitive data by continuing to use customer-managed keys where appropriate, while optimizing costs for less sensitive data.

CASP+ Relevance: This approach demonstrates an understanding of risk management, data classification, and cost-benefit analysis in security decision-making, all of which are important topics in CASP+.

Elaboration on Data Classification:

Data Classification Policy: Organizations should have a clear data classification policy that defines different levels of data sensitivity (e.g., public, internal, confidential, restricted).

Security Controls Based on Classification: Security controls, including encryption key management, should be applied based on the data's classification level.

Cost-Benefit Analysis: Data classification helps organizations make informed decisions about where to invest in stronger security controls and where cost optimization is acceptable.

In conclusion, adjusting the configuration to use cloud-provider-managed keys for data classified as public is the most effective way to reduce costs while maintaining a strong security posture. It's a practical, risk-based approach that aligns with data classification principles and cost-benefit considerations, all of which are important concepts covered in the CASP+ exam objectives.

NEW QUESTION # 195

Which of the following supports the process of collecting a large pool of behavioral observations to inform decision-making?

- **A. Big Data**
- B. Distributed consensus
- C. Linear regression
- D. Machine learning

Answer: A

Explanation:

Collecting a large pool of behavioral observations requires handling vast datasets, which is the domain of Big Data. Big Data technologies enable the storage, processing, and analysis of large-scale data (e.g., user behavior logs) to inform decisions, a key capability in security analytics.

NEW QUESTION # 196

A security engineer is reviewing the results of an annual penetration test. The report lists one of the results as "critical severity" on several domain-joined workstations:

SSL/TLS Weak Protocols Supported TLS 1.0, TLS 1.1

Which of the following should the security engineer implement to remediate this finding in the most centralized manner?

- A. A registry script to disable weak protocols in the Schannel hive
- **B. A GPO to disable weak protocols in the Schannel hive**
- C. An SCCM patch to disable weak protocols in the Schannel hive
- D. A PowerShell script to disable weak protocols in the HKLM Schannel hive

Answer: B

Explanation:

A Group Policy Object (GPO) is the most centralized and scalable way to implement this change across multiple domain-joined workstations. By configuring a GPO to disable weak protocols (TLS 1.0 and TLS 1.1) in the Schannel hive, the security engineer can ensure consistent enforcement across all affected systems in the domain without needing to manually configure each machine individually.

NEW QUESTION # 197

A company recently acquired a SaaS company and performed a gap analysis. The results of the gap analysis indicate security controls are absent throughout the SDLC and have led to several vulnerable production releases. Which of the following security tools best reduces the risk of vulnerable code being pushed to production in the future?

- A. Regression testing
- B. Sandboxing
- **C. Static application security testing**
- D. Code signing

Answer: C

Explanation:

Static application security testing (SAST) is the best tool for identifying security vulnerabilities in code early in the Software Development Life Cycle (SDLC). SAST tools analyze source code or binaries for vulnerabilities without executing the program, allowing teams to catch and address security issues before the code is pushed to production. This aligns with reducing the risk of vulnerable code being released.

NEW QUESTION # 198

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