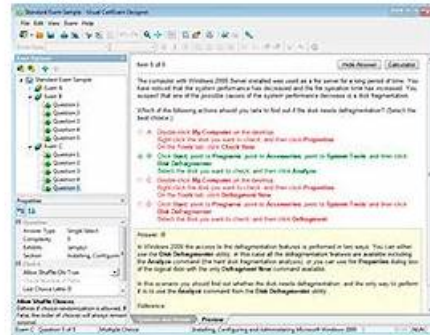


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CompTIA CAS-005 Exam Syllabus Topics:

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">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 3	<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 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 (Q159-Q164):

NEW QUESTION # 159

A company that uses containers to run its applications is required to identify vulnerabilities on every container image in a private repository. The security team needs to be able to quickly evaluate whether to respond to a given vulnerability. Which of the following will allow the security team to achieve the objective with the least effort?

- A. CIS benchmark compliance reports
- B. SAST scan reports
- C. Centralized SBoM
- D. Credentialed vulnerability scan

Answer: C

Explanation:

A centralized Software Bill of Materials (SBoM) is the best solution for identifying vulnerabilities in container images in a private repository. An SBoM provides a comprehensive inventory of all components, dependencies, and their versions within a container image, facilitating quick evaluation and response to vulnerabilities.

Why Centralized SBoM?

* Comprehensive Inventory: An SBoM lists all software components, including their versions and dependencies, allowing for thorough vulnerability assessments.

* Quick Identification: Centralizing SBoM data enables rapid identification of affected containers when a vulnerability is disclosed.

* Automation: SBoMs can be integrated into automated tools for continuous monitoring and alerting of vulnerabilities.

* Regulatory Compliance: Helps in meeting compliance requirements by providing a clear and auditable record of all software components used.

Other options, while useful, do not provide the same level of comprehensive and efficient vulnerability management:

* A. SAST scan reports: Focuses on static analysis of code but may not cover all components in container images.

* C. CIS benchmark compliance reports: Ensures compliance with security benchmarks but does not provide detailed component inventory.

* D. Credentialed vulnerability scan: Useful for in-depth scans but may not be as efficient for quick vulnerability evaluation.

References:

* CompTIA SecurityX Study Guide

* "Software Bill of Materials (SBoM)," NIST Documentation

* "Managing Container Security with SBoM," OWASP

NEW QUESTION # 160

A company undergoing digital transformation is reviewing the resiliency of a CSP and is concerned about meeting SLA requirements in the event of a CSP incident. Which of the following would be best to proceed with the transformation?

- A. An active-active solution within the same tenant
- B. An on-premises solution as a backup
- C. A load balancer with a round-robin configuration
- D. A multicloud provider solution

Answer: D

Explanation:

Multicloud provider solutions involve using services from more than one cloud provider to ensure resiliency and redundancy. In the event of a failure or SLA breach by one CSP, another provider can maintain service continuity. An on-premises backup could help, but does not address CSP-specific SLA concerns directly. Round-robin load balancing and active-active within the same tenant still depend on a single provider, thus posing risks if the CSP fails.

NEW QUESTION # 161

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

- A. insufficient coprocessor support
- B. No use cases to drive adoption
- C. Quantum computers not yet capable
- D. Incomplete mathematical primitives

Answer: A

NEW QUESTION # 162

An organization wants to create a threat model to identify vulnerabilities in its infrastructure.

Which of the following, should be prioritized first?

- A. External facing Infrastructure with a low risk score and no known exploited vulnerabilities
- B. Internal infrastructure with high-severity and Known exploited vulnerabilities
- C. External-facing infrastructure with a high risk score that can only be exploited with local access to the resource
- D. External-facing Infrastructure with known exploited vulnerabilities

Answer: D

Explanation:

When creating a threat model to identify vulnerabilities in an organization's infrastructure, prioritizing external-facing infrastructure with known exploited vulnerabilities is critical.

Exposure to Attack: External-facing infrastructure is directly exposed to the internet, making it a primary target for attackers. Any vulnerabilities in this layer pose an immediate risk to the organization's security.

Known Exploited Vulnerabilities: Vulnerabilities that are already known and exploited in the wild are of higher concern because they are actively being used by attackers. Addressing these vulnerabilities reduces the risk of exploitation significantly.

Risk Mitigation: By prioritizing external-facing infrastructure with known exploited vulnerabilities, the organization can mitigate the most immediate and impactful threats, thereby improving overall security posture.

NEW QUESTION # 163

An organization is implementing advanced security controls associated with the execution of software applications on corporate endpoints. The organization must implement a deny-all, permit-by-exception approach to software authorization for all systems regardless of OS. Which of the following should be implemented to meet these requirements?

- A. Atomic execution
- B. MDM
- C. XDR
- D. Block list
- E. SELinux

Answer: D

Explanation:

Comprehensive and Detailed Step by Step Explanation:

Understanding the Scenario: The organization wants a strict application control policy: deny all software execution by default and only allow specifically authorized applications. This must be enforced across all operating systems. It is implied that they mean an Allow list, but Block List is the only reasonable answer.

Analyzing the Answer Choices:

A: SELinux (Security-Enhanced Linux): SELinux is a security module for the Linux kernel that provides Mandatory Access Control (MAC). While it can enforce application control, it's specific to Linux and doesn't meet the "regardless of OS" requirement.

Reference: SELinux is a powerful tool often covered in CASP+ material, but its OS-specific nature makes it unsuitable here.

B: MDM (Mobile Device Management): MDM solutions are primarily used to manage mobile devices (smartphones, tablets). While some MDM solutions offer application control features, they are not designed for comprehensive application control across all OS types (including desktops).

Reference: MDM is relevant to CASP+ in the context of mobile security, but it's not the best fit for this cross- platform application control requirement.

C: XDR (Extended Detection and Response): XDR is a threat detection and response platform that integrates multiple security

products. While important for security, it's not designed to enforce application control policies.

Reference: XDR is a key component of modern security architectures and is covered in CASP+, but its focus is threat detection, not preventative application control.

D: Allow List (Corrected from "Block List"): An allow list (also known as an application whitelisting) is a security mechanism that explicitly lists applications authorized to run. All other applications are blocked by default. This directly aligns with the "deny-all, permit-by-exception" approach.

Reference: Allow lists (whitelisting) are a fundamental security control emphasized in CASP+. They are a core component of application control strategies.

E: Atomic execution: This is not a recognized security control or term related to application control.

Why D (Corrected to Allow List) is the Correct Answer:

An allow list perfectly implements the required security policy. By defining a list of approved applications, the organization ensures that only those applications can execute.

This approach is effective across different operating systems, as long as the OS has a mechanism to implement application allow lists (most modern OSs do).

CASP+ Relevance: Allow listing is a critical security control discussed in CASP+ as a method to reduce the attack surface, prevent malware execution, and enhance endpoint security.

Implementation Considerations (Elaboration based on CASP+ principles):

Creating the Allow List: This requires careful planning and inventorying of all necessary applications.

Enforcement Mechanisms: Different OSs have different tools for enforcing application control policies.

Windows has AppLocker, macOS has its own mechanisms, and various third-party endpoint security solutions also provide this functionality.

Updating the Allow List: A process must be in place to add new applications to the allow list when needed, ensuring proper vetting and authorization.

Exceptions: There might be a need for exceptions for certain users or systems, requiring careful consideration and management.

In conclusion, an allow list (application whitelisting) is the most appropriate solution to implement a "deny-all, permit-by-exception" application control policy across all operating systems. It's a powerful security control aligned with the principles of least privilege and is a core concept covered in the CASP+ exam objectives. It is implied that the question was intended to be Allow List, but as written, Block List is the only reasonable answer.

NEW QUESTION # 164

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