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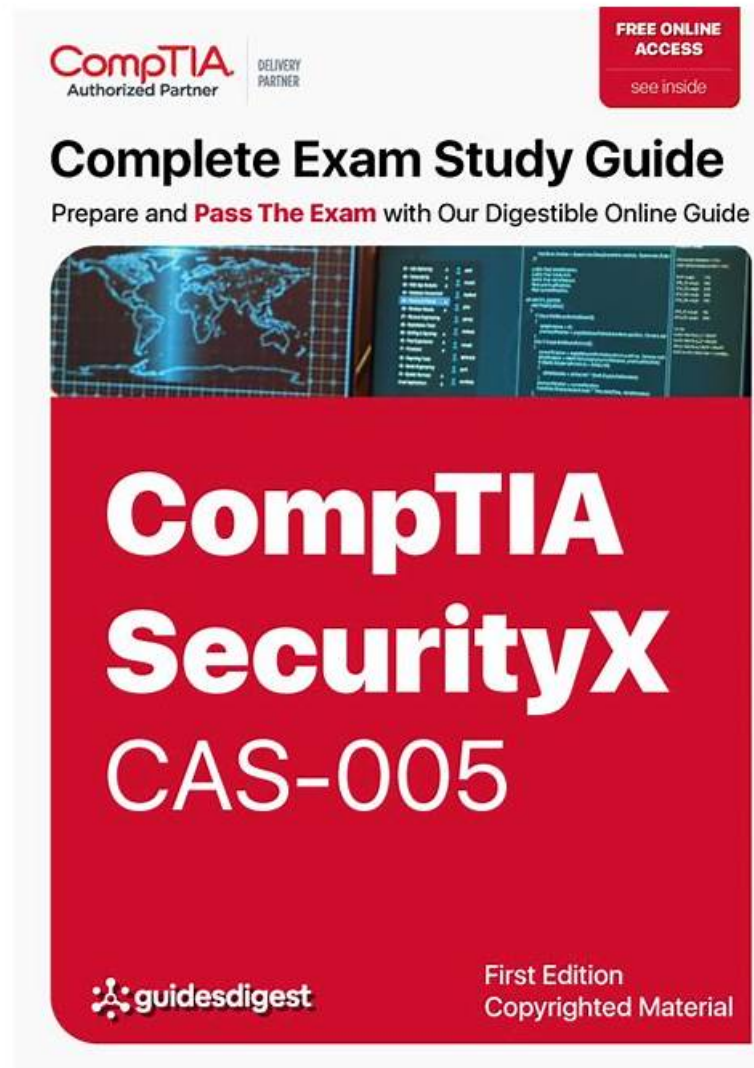

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CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems.
Topic 4	• 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.

Quiz CompTIA - CAS-005 - High Hit-Rate New CompTIA SecurityX Certification Exam Test Registration

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CompTIA SecurityX Certification Exam Sample Questions (Q517-Q522):

NEW QUESTION # 517
Which of the following best explains the importance of determining organization risk appetite when operating with a constrained budget?

- A. Risk appetite directly influences which breaches are disclosed publicly
- B. Organizational risk appetite varies from organization to organization
- C. Risk appetite directly impacts acceptance of high-impact low-likelihood events.
- D. Budgetary pressure drives risk mitigation planning in all companies

Answer: C

Explanation:
Risk appetite is the amount of risk an organization is willing to accept to achieve its objectives. When operating with a constrained budget, understanding the organization's risk appetite is crucial because:
* It helps prioritize security investments based on the level of risk the organization is willing to tolerate.
* High-impact, low-likelihood events may be deemed acceptable if they fall within the organization's risk appetite, allowing for budget allocation to other critical areas.
* Properly understanding and defining risk appetite ensures that limited resources are used effectively to manage risks that align with the organization's strategic goals.
References:
* CompTIA Security+ Study Guide
* NIST Risk Management Framework (RMF) guidelines
* ISO 31000, "Risk Management - Guidelines"

NEW QUESTION # 518
A security engineer is developing a solution to meet the following requirements?
* All endpoints should be able to establish telemetry with a SIEM.
* All endpoints should be able to be integrated into the XDR platform.
* SOC services should be able to monitor the XDR platform

Which of the following should the security engineer implement to meet the requirements?

- A. CDR and central logging
- B. HIPS and host-based firewall
- C. HIDS and vTPM
- D. WAF and syslog

Answer: B

Explanation:
To meet the requirements of having all endpoints establish telemetry with a SIEM, integrate into an XDR platform, and allow SOC services to monitor the XDR platform, the best approach is to implement Host Intrusion Prevention Systems (HIPS) and a host-based firewall. HIPS can provide detailed telemetry data to the SIEM and can be integrated into the XDR platform for comprehensive monitoring and response. The host-based firewall ensures that only authorized traffic is allowed, providing an additional layer of security.
Reference:
CompTIA SecurityX Study Guide: Describes the roles of HIPS and host-based firewalls in endpoint security and their integration with SIEM and XDR platforms.
NIST Special Publication 800-94, "Guide to Intrusion Detection and Prevention Systems (IDPS)": Highlights the capabilities of HIPS for security monitoring and incident response.
"Network Security Monitoring" by Richard Bejtlich: Discusses the integration of various security tools, including HIPS and firewalls, for effective security monitoring.

NEW QUESTION # 519
A company wants to install a three-tier approach to separate the web. database, and application servers A security administrator must harden the environment which of the following is the best solution?

- A. Configuring a SASb solution to restrict users to server communication
- B. installing a firewall and making it the network core
- C. Implementing microsegmentation on the server VLANs
- D. Deploying a VPN to prevent remote locations from accessing server VLANs

Answer: C

Explanation:
The best solution to harden a three-tier environment (web, database, and application servers) is to implement microsegmentation on the server VLANs. Here's why:
Enhanced Security: Microsegmentation creates granular security zones within the data center, allowing for more precise control over east-west traffic between servers. This helps prevent lateral movement by attackers who may gain access to one part of the network.
Isolation of Tiers: By segmenting the web, database, and application servers, the organization can apply specific security policies and controls to each segment, reducing the risk of cross-tier attacks.
Compliance and Best Practices: Microsegmentation aligns with best practices for network security and helps meet compliance requirements by ensuring that sensitive data and systems are properly isolated and protected.

NEW QUESTION # 520
Developers have been creating and managing cryptographic material on their personal laptops fix use in production environment. A security engineer needs to initiate a more secure process. Which of the following is the best strategy for the engineer to use?

- A. Disabling the BIOS and moving to UEFI
- B. Employing shielding lo prevent LMI
- C. Managing secrets on the vTPM hardware
- D. Managing key material on a HSM

Answer: D

Explanation:
The best strategy for securely managing cryptographic material is to use a Hardware Security Module (HSM). Here's why:
Security and Integrity: HSMs are specialized hardware devices designed to protect and manage digital keys. They provide high

levels of physical and logical security, ensuring that cryptographic material is well protected against tampering and unauthorized access.

Centralized Key Management: Using HSMs allows for centralized management of cryptographic keys, reducing the risks associated with decentralized and potentially insecure key storage practices, such as on personal laptops.

Compliance and Best Practices: HSMs comply with various industry standards and regulations (such as FIPS 140-2) for secure key management. This ensures that the organization adheres to best practices and meets compliance requirements.

Reference:

CompTIA Security+ SY0-601 Study Guide by Mike Chapple and David Seidl

NIST Special Publication 800-57: Recommendation for Key Management

ISO/IEC 19790:2012: Information Technology - Security Techniques - Security Requirements for Cryptographic Modules

NEW QUESTION # 521

During a security assessment using an CDR solution, a security engineer generates the following report about the assets in me system:

After five days, the EDR console reports an infection on the host 0WIN23 by a remote access Trojan Which of the following is the most probable cause of the infection?

- A. The EDR has an unknown vulnerability that was exploited by the attacker.
- B. OW1N23 uses a legacy version of Windows that is not supported by the EDR
- C. LN002 was not supported by the EDR solution and propagates the RAT
- D. 0W1N29 spreads the malware through other hosts in the network

Answer: B

Explanation:

OWIN23 is running Windows 7, which is a legacy operating system. Many EDR solutions no longer provide full support for outdated operating systems like Windows 7, which has reached its end of life and is no longer receiving security updates from Microsoft. This makes such systems more vulnerable to infections and attacks, including remote access Trojans (RATs).

A . OWIN23 uses a legacy version of Windows that is not supported by the EDR: This is the most probable cause because the lack of support means that the EDR solution may not fully protect or monitor this system, making it an easy target for infections.

B . LN002 was not supported by the EDR solution and propagates the RAT: While LN002 is unmanaged, it is less likely to propagate the RAT to OWIN23 directly without an established vector.

C . The EDR has an unknown vulnerability that was exploited by the attacker: This is possible but less likely than the lack of support for an outdated OS.

D . OWIN29 spreads the malware through other hosts in the network: While this could happen, the status indicates OWIN29 is in a bypass mode, which might limit its interactions but does not directly explain the infection on OWIN23.

Reference:

CompTIA Security+ Study Guide

NIST SP 800-53, "Security and Privacy Controls forInformation Systems and Organizations" Microsoft's Windows 7 End of Support documentation

NEW QUESTION # 522

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