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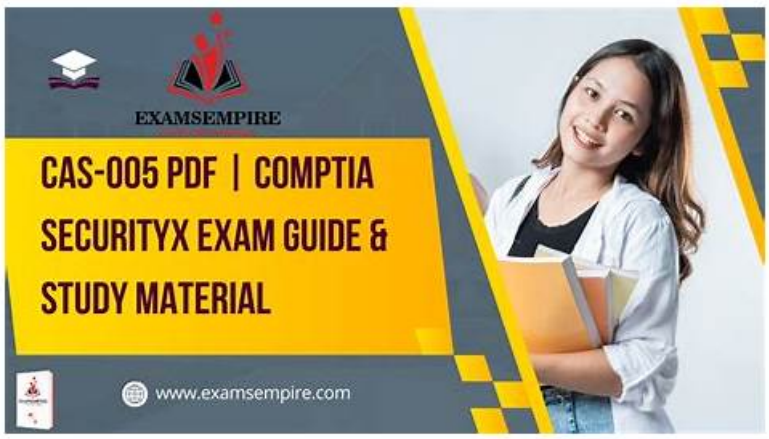

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CompTIA CAS-005 Exam Syllabus Topics:

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

Topic 3	• 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	• 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.

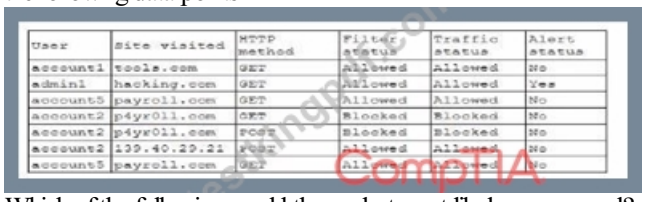
CompTIA SecurityX Certification Exam Sample Questions (Q154-Q159):

NEW QUESTION # 154
A security engineer needs 10 secure the OT environment based on me following requirements
* Isolate the OT network segment
* Restrict Internet access.
* Apply security updates two workstations
* Provide remote access to third-party vendors
Which of the following design strategies should the engineer implement to best meet these requirements?

- A. Enable outbound internet access on the OT firewall to any destination IP address and use the centralized update server for the workstations
- B. Create a staging environment on the OT network for the third-party vendor to access and enable automatic updates on the workstations.
- C. 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.
- D. 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

Answer: C

NEW QUESTION # 155
A security analyst wants to use lessons learned from a poor incident response to reduce dwell lime in the future The analyst is using the following data points



User	Site visited	HTTP method	Filter status	Traffic status	Alert status
account1	tools.com	GET	Allowed	Allowed	No
admin1	hacking.com	GET	Allowed	Allowed	Yes
account5	payroll.com	GET	Allowed	Allowed	No
account2	p4yr0ll.com	GET	Blocked	Blocked	No
account2	p4yr0ll.com	POST	Blocked	Blocked	No
account2	139.40.29.21	POST	Allowed	Allowed	No
account5	payroll.com	GET	Allowed	Allowed	No

Which of the following would the analyst most likely recommend?

- A. utilizing allow lists on the WAF for all users using GFT methods
- B. Allowing TRACE method traffic to enable better log correlation
- C. Enabling alerting on all suspicious administrator behavior
- D. Adjusting the SIEM to alert on attempts to visit phishing sites

Answer: C

Explanation:
In the context of improving incident response and reducing dwell time, the security analyst needs to focus on proactive measures that can quickly detect and alert on potential security breaches. Here's a detailed analysis of the options provided:
A: Adjusting the SIEM to alert on attempts to visit phishing sites: While this is a useful measure to prevent phishing attacks, it primarily addresses external threats and doesn't directly impact dwell time reduction, which focuses on the time a threat remains undetected within a network.
B: Allowing TRACE method traffic to enable better log correlation: The TRACE method in HTTP is used for debugging purposes, but enabling it can introduce security vulnerabilities. It's not typically recommended for enhancing security monitoring or incident

response.
C: Enabling alerting on all suspicious administrator behavior: This option directly targets the potential misuse of administrator accounts, which are often high-value targets for attackers. By monitoring and alerting on suspicious activities from admin accounts, the organization can quickly identify and respond to potential breaches, thereby reducing dwell time significantly. Suspicious behavior could include unusual login times, access to sensitive data not usually accessed by the admin, or any deviation from normal behavior patterns.
This proactive monitoring is crucial for quick detection and response, aligning well with best practices in incident response.
D: Utilizing allow lists on the WAF for all users using GET methods: This measure is aimed at restricting access based on allowed lists, which can be effective in preventing unauthorized access but doesn't specifically address the need for quick detection and response to internal threats.

NEW QUESTION # 156
Which of the following best explains the business requirement a healthcare provider fulfills by encrypting patient data at rest?

- A. Providing for non-repudiation data
- B. Securing data transfer between hospitals
- C. Protecting privacy while supporting portability.
- D. Reducing liability from identity theft

Answer: C

Explanation:
Encrypting patient data at rest is a critical requirement for healthcare providers to ensure compliance with regulations such as the Health Insurance Portability and Accountability Act (HIPAA). The primary business requirement fulfilled by this practice is the protection of patient privacy while supporting the portability of medical information. By encrypting data at rest, healthcare providers safeguard sensitive patient information from unauthorized access, ensuring that privacy is maintained even if the storage media are compromised. Additionally, encryption supports the portability of patient records, allowing for secure transfer and access across different systems and locations while ensuring that privacy controls are in place.
Reference:
CompTIA SecurityX Study Guide: Emphasizes the importance of data encryption for protecting sensitive information and ensuring compliance with regulatory requirements.
HIPAA Security Rule: Requires healthcare providers to implement safeguards, including encryption, to protect patient data.
"Health Informatics: Practical Guide for Healthcare and Information Technology Professionals" by Robert E. Hoyt: Discusses encryption as a key measure for protecting patient data privacy and supporting data portability.

NEW QUESTION # 157
Which of the following best describes the reason a network architect would enable forward secrecy on all VPN tunnels?

- A. Modern cryptographic protocols list this process as a prerequisite for use.
- B. The business requirements state that confidentiality is a critical success factor.
- C. This process reduces the success of attackers performing cryptanalysis.
- D. This process is a requirement to enable hardware-accelerated cryptography.

Answer: C

Explanation:
Forward secrecy (also known as perfect forward secrecy, PFS) ensures that session keys used in a VPN tunnel are ephemeral, meaning that even if an attacker compromises a long-term private key, past sessions cannot be decrypted. According to the CompTIA SecurityX CAS-005 study guide (Domain 3: Cybersecurity Technology, 3.1), enabling forward secrecy on VPN tunnels reduces the risk of cryptanalysis by ensuring that each session's encryption key is unique and not derived from a single compromised key. This directly mitigates the impact of attacks like key theft or future decryption attempts.
* Option A:Forward secrecy is not required for hardware-accelerated cryptography, which depends on processor capabilities, not key management.
* Option C:While confidentiality is important, this is too vague and does not specifically explain why forward secrecy is chosen.
* Option D:Modern protocols (e.g., TLS 1.3, IPsec with ECDHE) support forward secrecy but donot mandate it as a prerequisite for use.
* Option B:This is the most precise, as forward secrecy directly reduces the success of cryptanalysis by limiting the scope of key compromise.
Reference:

CompTIA SecurityX CAS-005 Official Study Guide, Domain 3: Cybersecurity Technology, Section 3.1: "Explain cryptographic techniques, including perfect forward secrecy."
CAS-005 Exam Objectives, 3.1: "Evaluate the impact of cryptographic configurations on security."

NEW QUESTION # 158
A hospital provides tablets to its medical staff to enable them to more quickly access and edit patients' charts.
The hospital wants to ensure that if a tablet is Identified as lost or stolen and a remote command is issued, the risk of data loss can be mitigated within seconds. The tablets are configured as follows to meet hospital policy
* Full disk encryption is enabled
* "Always On" corporate VPN is enabled
* ef-use-backed keystore is enabled'ready.
* Wi-Fi 6 is configured with SAE.
* Location services is disabled.
*Application allow list is configured

- A. Revoking the user certificates used for VPN and Wi-Fi access
- B. Using geolocation to find the device
- C. Performing cryptographic obfuscation
- D. Returning on the device's solid-state media to zero
- E. Configuring the application allow list to only per mil emergency calls

Answer: D

Explanation:
To mitigate the risk of data loss on a lost or stolen tablet quickly, the most effective strategy is to return the device's solid-state media to zero, which effectively erases all data on the device. Here's why:
* Immediate Data Erasure: Returning the solid-state media to zero ensures that all data is wiped instantly, mitigating the risk of data loss if the device is lost or stolen.
* Full Disk Encryption: Even though the tablets are already encrypted, physically erasing the data ensures that no residual data can be accessed if someone attempts to bypass encryption.
* Compliance and Security: This method adheres to best practices for data security and compliance, ensuring that sensitive patient data cannot be accessed by unauthorized parties.
* References:
* CompTIA Security+ SY0-601 Study Guide by Mike Chapple and David Seidl
* NIST Special Publication 800-88: Guidelines for Media Sanitization
* ISO/IEC 27002:2013 - Information Security Management

NEW QUESTION # 159
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