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CompTIA CAS-005 Exam Syllabus Topics:

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

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CompTIA SecurityX Certification Exam Sample Questions (Q138-Q143):

NEW QUESTION # 138
A threat hunter is identifying potentially malicious activity associated with an APT. When the threat hunter runs queries against the SIEM platform with a date range of 60 to 90 days ago, the involved account seems to be typically most active in the evenings. When the threat hunter reruns the same query with a date range of 5 to 30 days ago, the account appears to be most active in the early morning. Which of the following techniques is the threat hunter using to better understand the data?

- A. User behavior analytics
- B. OSINT analysis activities
- C. TTP-based inquiries
- D. Adversary emulation

Answer: A

Explanation:
User behavior analytics (UBA) detects anomalous activity by analyzing historical patterns and comparing them to recent behavior. The time shift in account activity suggests potential compromise or misuse.
* TTP-based inquiries (A) focus on known attack tactics, techniques, and procedures but do not involve behavior tracking.
* Adversary emulation (C) simulates attacks but does not analyze real data trends.
* OSINT analysis (D) gathers intelligence from public sources, which is unrelated to internal account behavior analysis.

NEW QUESTION # 139
A security analyst is reviewing the following event timeline from an COR solution:

Time	File name	File action	Action verdict
4:08 p.m.	hr-reporting.docx	File save	Allowed
4:09 p.m.	hr-reporting.docx	Scan initiated	Pending
4:10 p.m.	hr-reporting.docx	File execute	Allowed
4:16 p.m.	paychecks.xlsx	File save	Allowed
4:16 p.m.	paychecks.xlsx	File shared	Allowed
4:17 p.m.	hr-reporting.docx	Script launched	Allowed
4:19 p.m.	hr-reporting.docx	Scan complete	Malware found
4:20 p.m.	paychecks.xlsx	File edit	Allowed

Which of the following most likely has occurred and needs to be fixed?

- A. A logic law has introduced a TOCTOU vulnerability and must be addressed by the COR vendor
- B. An EDR bypass was utilized by a threat actor and updates must be installed by the administrator.
- C. A potential insider threat is being investigated and will be addressed by the senior management team.
- D. The Dl P has failed to block malicious exfiltration and data tagging is not being utilized property

Answer: A

Explanation:
The event timeline indicates a sequence where a file (hr-reporting.docx) was saved, scanned, executed, and eventually found to contain malware. The critical issue here is that the malware scan completed after the file was already executed. This suggests a Time-Of-Check to Time-Of-Use (TOCTOU) vulnerability, where the state of the file changed between the time it was checked and the time it was used.

NEW QUESTION # 140
A security analyst isreviewing the following event timeline from an COR solution:

Time	File name	File action	Action verdict
4:08 p.m.	hr-reporting.docx	File save	Allowed
4:09 p.m.	hr-reporting.docx	Scan initiated	Pending
4:10 p.m.	hr-reporting.docx	File execute	Allowed
4:16 p.m.	paychecks.xlsx	File save	Allowed
4:16 p.m.	paychecks.xlsx	File shared	Allowed
4:17 p.m.	hr-reporting.docx	Script launched	Allowed
4:19 p.m.	hr-reporting.docx	Scan complete	Malware found
4:20 p.m.	paychecks.xlsx	File edit	Allowed

Which of the following most likely has occurred and needs to be fixed?

- A. A logic law has introduced a TOCTOU vulnerability and must be addressed by the COR vendor
- B. A potential insider threat is being investigated and will be addressed by the senior management team.
- C. The Dl P has failed to block malicious exfiltration and data tagging is not being utilized property
- D. An EDRbypass was utilized by a threat actor and updates must be installed by the administrator.

Answer: A

Explanation:
The event timeline indicates a sequence where a file (hr-reporting.docx) was saved, scanned, executed, and eventually found to contain malware. The critical issue here is that the malware scan completed after the file was already executed. This suggests a Time-Of-Check to Time-Of-Use (TOCTOU) vulnerability, where the state of the file changed between the time it was checked and the time it was used.
References:
CompTIA SecurityX Study Guide: Discusses TOCTOU vulnerabilities as a timing attack where the state of a resource changes after it has been validated.
NIST Special Publication 800-53, "Security and Privacy Controls for Federal Information Systems and Organizations": Recommends addressing TOCTOU vulnerabilities to ensure the integrity of security operations.
"The Art of Software Security Assessment" by Mark Dowd, John McDonald, and Justin Schuh: Covers logic flaws and timing vulnerabilities, including TOCTOU issues.

NEW QUESTION # 141
Engineers are unable to control pumps at Site A from Site B when the SCADA controller at Site A experiences an outage. A security analyst must provide a secure solution that ensures Site A pumps can be controlled by a SCADA controller at Site B if a similar outage occurs again. Which of the following represents the most cost-effective solution?

- A. Isolate the OT environment by providing an air-gapped network segment. Place the SCADA controller for each site in this network segment to minimize outages.
- B. Configure VPN concentrators inside the OT network segments at Site A and Site B and allow the controllers to act as secondary devices for the other site's pumps across this encrypted tunnel.
- C. Procure direct fiber connectivity between Site A and Site B and limit its use to the critical SCADA controller traffic only
- D. Install backup SCADA controllers at each site, isolate them from the OT network, and assign these backup controllers as high-availability pairs.

Answer: B

Explanation:
The most cost-effective and secure solution is to configure VPN concentrators inside the OT networks at both sites (Option D). This setup allows encrypted communications between Site A and Site B, enabling controllers at either site to serve as secondary or failover devices for the other. By leveraging VPN tunnels, the organization avoids the expensive and time-consuming process of laying new fiber infrastructure, while still ensuring secure, authenticated, and encrypted connections across sites.
Option A, direct fiber connectivity, provides high performance but is extremely costly and less flexible than VPN solutions. Option

B, deploying redundant SCADA controllers at each site, increases hardware, licensing, and management costs while still requiring interconnectivity. Option C, air-gapping the OT network, may improve isolation but would prevent remote failover capabilities, contradicting the requirement for cross-site control.

NEW QUESTION # 142
Asecuntv administrator is performing a gap assessment against a specific OS benchmark The benchmark requires the following configurations be applied to endpomts:
* 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. SBoM
- B. SCAP
- C. HIDS
- D. SASE
- E. CASB

Answer: B,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.
References:
* 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 # 143
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