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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	• 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	• 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	• 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.

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CompTIA SecurityX Certification Exam Sample Questions (Q33-Q38):

NEW QUESTION # 33
A company detects suspicious activity associated with external connections Security detection tools are unable to categorize this activity. Which of the following is the best solution to help the company overcome this challenge?

- A. Monitor the dark web
- B. Implement an Interactive honeypot
- C. implement UEBA
- D. Map network traffic to known loCs.

Answer: C

Explanation:
User and Entity Behavior Analytics (UEBA) is the best solution to help the company overcome challenges associated with suspicious activity that cannot be categorized by traditional detection tools. UEBA uses advanced analytics to establish baselines of normal behavior for users and entities within the network. It then identifies deviations from these baselines, which may indicate malicious activity. This approach is particularly effective for detecting unknown threats and sophisticated attacks that do not match known indicators of compromise (IoCs).

NEW QUESTION # 34
A security analyst is troubleshooting the reason a specific user is having difficulty accessing company resources The analyst reviews the following information:

User	Source IP	Source location	User assigned location	MFA satisfied?	Sign-in status
SALES1	8.11.4.16	Germany	France	Yes	Blocked
SALES1	8.11.4.16	Germany	France	Yes	Blocked
ACCT1	192.168.4.18	France	France	No	Allowed
SALES1	8.11.4.16	Germany	France	Yes	Blocked
ACCT1	8.11.4.16	Germany	France	Yes	Blocked
SALES2	8.11.4.20	France	France	Yes	Allowed

Which of the following is most likely the cause of the issue?

- A. A network geolocation is being misidentified by the authentication server
- B. Administrator access from an alternate location is blocked by company policy
- C. The local network access has been configured to bypass MFA requirements.
- D. Several users have not configured their mobile devices to receive OTP codes

Answer: A

Explanation:
The table shows that the user "SALES1" is consistently blocked despite having met the MFA requirements. The common factor in these blocked attempts is the source IP address (8.11.4.16) being identified as from Germany while the user is assigned to France. This discrepancy suggests that the network geolocation is being misidentified by the authentication server, causing legitimate access attempts to be blocked.
Why Network Geolocation Misidentification?
Geolocation Accuracy: Authentication systems often use IP geolocation to verify the location of access attempts. Incorrect geolocation data can lead to legitimate requests being denied if they appear to come from unexpected locations.
Security Policies: Company security policies might block access attempts from certain locations to prevent unauthorized access. If

the geolocation is wrong, legitimate users can be inadvertently blocked.
Consistent Pattern: The user "SALES1" from the IP address 8.11.4.16 is always blocked, indicating a consistent issue with geolocation.
Other options do not align with the pattern observed:
A . Bypass MFA requirements: MFA is satisfied, so bypassing MFA is not the issue.
C . Administrator access policy: This is about user access, not specific administrator access.
D . OTP codes: The user has satisfied MFA, so OTP code configuration is not the issue.
Reference:
CompTIA SecurityX Study Guide
"Geolocation and Authentication," NIST Special Publication 800-63B
"IP Geolocation Accuracy," Cisco Documentation

NEW QUESTION # 35
A security analyst is using data provided from a recent penetration test to calculate CVSS scores to prioritize remediation. Which of the following metric groups would the analyst need to determine to get the overall scores? (Select three).

- A. Environmental
- B. Base
- C. Impact
- D. Confidentiality
- E. Availability
- F. Integrity
- G. Attack vector
- H. Temporal

Answer: A,B,H

Explanation:
The Common Vulnerability Scoring System (CVSS) v3.1 uses three metric groups to calculate overall scores:
Base,Temporal, andEnvironmental.
* Base (E):Mandatory metrics assessing exploitability (e.g., attack vector) and impact (confidentiality, integrity, availability).
* Temporal (A):Optional metrics reflecting the current state of the vulnerability (e.g., exploit availability, remediation level).
* Environmental (F):Optional metrics tailoring the score to the organization's context (e.g., security requirements).
* B, C, D (Availability, Integrity, Confidentiality):These are subcomponents of the Base Impact metrics, not standalone groups.
* G (Impact):A category within Base, not a group.
* H (Attack vector):A single Base metric, not a group.

NEW QUESTION # 36
An analyst reviews a SIEM and generates the following report:

Host	Rule	Offense Trigger
VM002	Network connection	TCP connection generated to web.corp.local
HOST002	Network connection	Web navigation to comptia.org
HOST002	File download	File download from web browser from web.corp.local
VM002	Network connection	Web navigation to web.corp.local
HOST002	Network connection	Web navigation to comptia.org/files
HOST002	Log-in activity	Log-in successful after two attempts

Only HOST002 is authorized for internet traffic. Which of the following statements is accurate?

- A. The network connection activity is unusual, and a network infection is highly possible.
- B. The HOST002 host is under attack, and a security incident should be declared.
- C. The SIEM platform is reporting multiple false positives on the alerts.
- D. The VM002 host is misconfigured and needs to be revised by the network team.

Answer: A

Explanation:
Comprehensive and Detailed
Understanding the Security Event:
HOST002 is the only device authorized for internet traffic. However, the SIEM logs show that VM002 is making network

connections to web.corp.local.
This indicates unauthorized access, which could be a sign of lateral movement or network infection.
This is a red flag for potential malware, unauthorized software, or a compromised host.
Why Option D is Correct:
Unusual network traffic patterns are often an indicator of a compromised system.
VM002 should not be communicating externally, but it is.
This suggests a possible breach or malware infection attempting to communicate with a command-and-control (C2) server.
Why Other Options Are Incorrect:
A (Misconfiguration): While a misconfiguration could explain the unauthorized connections, the pattern of activity suggests something more malicious.
B (Security incident on HOST002): The issue is not with HOST002. The suspicious activity is from VM002.
C (False positives): The repeated pattern of unauthorized connections makes false positives unlikely.
Reference:
CompTIA SecurityX CAS-005 Official Study Guide: Chapter on SIEM & Incident Analysis MITRE ATT&CK Tactics: Lateral Movement & Network-based Attacks

NEW QUESTION # 37
Which of the following best describes the reason a network architect would enable forward secrecy on all VPN tunnels?

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

Answer: C

Explanation:
Forward secrecy, also known as perfect forward secrecy, is a feature of certain key agreement protocols that ensures session keys will not be compromised even if the server's private key is compromised in the future.
By enabling forward secrecy on VPN tunnels, each session uses a unique key, and these keys are not derived from a common master key. This means that even if an attacker obtains the server's private key, they cannot decrypt past sessions, thereby significantly reducing the effectiveness of cryptanalysis attacks.

NEW QUESTION # 38
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