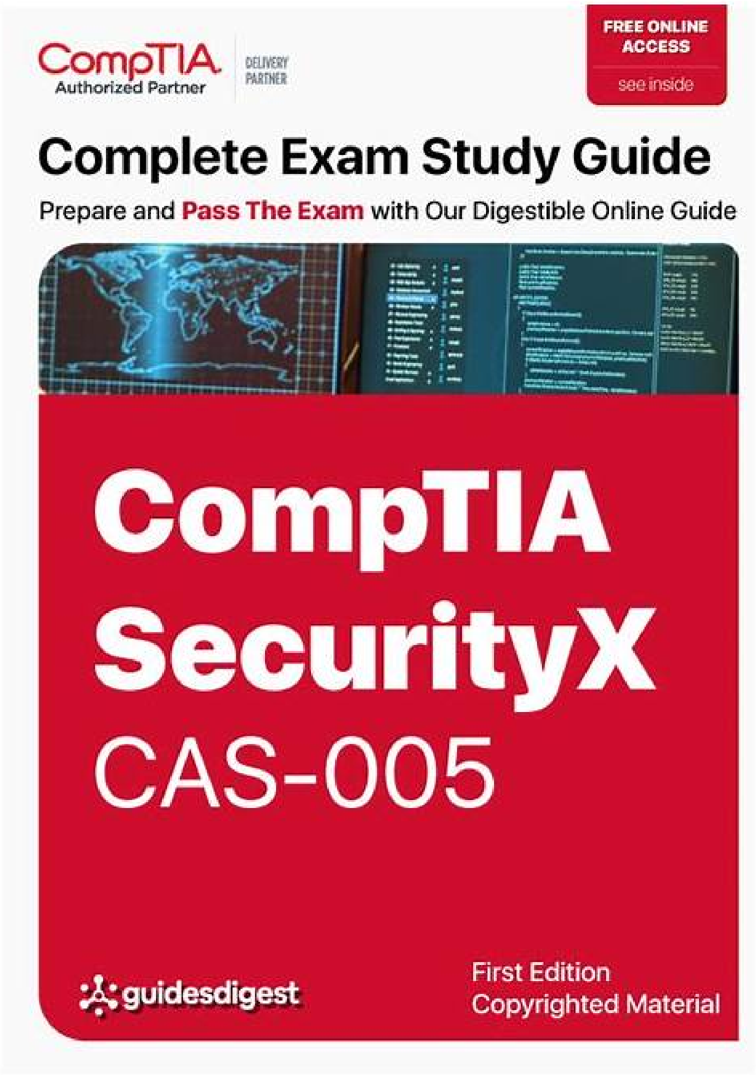
Detailed CompTIA CAS-005 Study Plan - Interactive CAS-005 Practice Exam



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CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	- 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 Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection 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 (Q63-Q68):

NEW QUESTION # 63
A security analyst is reviewing the following authentication logs:
Which of the following should the analyst do first?

- A. Disable User8's account
- B. Disable User1's account
- C. Disable User12's account
- D. Disable User2's account

Answer: B

Explanation:
Based on the provided authentication logs, we observe that User1's account experienced multiple failed login attempts within a very short time span (at 8:01:23 AM on 12/15). This pattern indicates a potential brute-force attack or an attempt to gain unauthorized access. Here's a breakdown of why disabling User1's account is the appropriate first step:
* Failed Login Attempts: The logs show that User1 had four consecutive failed login attempts:
* VM01 at 8:01:23 AM
* VM08 at 8:01:23 AM
* VM01 at 8:01:23 AM
* VM08 at 8:01:23 AM
* Security Protocols and Best Practices: According to CompTIA Security+ guidelines, multiple failed login attempts within a short timeframe should trigger an immediate response to prevent further potential unauthorized access attempts. This typically involves temporarily disabling the account to stop ongoing brute-force attacks.
* Account Lockout Policy: Implementing an account lockout policy is a standard practice to thwart brute- force attacks. Disabling User1's account will align with these best practices and prevent further failed attempts, which might lead to successful unauthorized access if not addressed.
* References:
* CompTIA Security+ SY0-601 Study Guide by Mike Chapple and David Seidl
* CompTIA Security+ Certification Exam Objectives
* NIST Special Publication 800-63B: Digital Identity Guidelines
By addressing User1's account first, we effectively mitigate the immediate threat of a brute-force attack, ensuring that further investigation can be conducted without the risk of unauthorized access continuing during the investigation period.

NEW QUESTION # 64

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

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

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

Answer: D

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.
References:
* CompTIA SecurityX Study Guide
* "Geolocation and Authentication," NIST Special Publication 800-63B
* "IP Geolocation Accuracy," Cisco Documentation

NEW QUESTION # 65

A security engineer wants to propose an MDM solution to mitigate certain risks. The MDM solution should meet the following requirements:
- Mobile devices should be disabled if they leave the trusted zone.
- If the mobile device is lost, data is not accessible.
Which of the following options should the security engineer enable on the MDM solution? (Select two).

- A. Allow/blocklist
- B. Patch management
- C. Full disk encryption
- D. Geofencing
- E. Containerization
- F. Geotagging

Answer: C,D

NEW QUESTION # 66

A systems administrator works with engineers to process and address vulnerabilities as a result of continuous scanning activities. The primary challenge faced by the administrator is differentiating between valid and invalid findings. Which of the following would the systems administrator most likely verify is properly configured?

- A. Scanning credentials
- B. Exploit definitions
- C. Report retention time

- D. Testing cadence

Answer: A

Explanation:
When differentiating between valid and invalid findings from vulnerability scans, the systems administrator should verify that the scanning credentials are properly configured. Valid credentials ensure that the scanner can authenticate and access the systems being evaluated, providing accurate and comprehensive results.
Without proper credentials, scans may miss vulnerabilities or generate false positives, making it difficult to prioritize and address the findings effectively.
References:
* CompTIA SecurityX Study Guide: Highlights the importance of using valid credentials for accurate vulnerability scanning.
* "Vulnerability Management" by Park Foreman: Discusses the role of scanning credentials in obtaining accurate scan results and minimizing false positives.
* "The Art of Network Security Monitoring" by Richard Bejtlich: Covers best practices for configuring and using vulnerability scanning tools, including the need for valid credentials.

NEW QUESTION # 67
A malware researcher has discovered a credential stealer is looking at a specific memory register to harvest passwords that will be used later for lateral movement in corporate networks. The malware is using TCP 4444 to communicate with other workstations.
The lateral movement would be best mitigated by:

- A. Enabling an edge firewall
- B. Enabling ASLR on the Active Directory server
- C. Enforcing all systems to use UEFI
- D. Configuring the CPU's NX bit
- E. Enabling a host firewall

Answer: E

Explanation:
The malware uses TCP 4444 to move laterally between systems. A host-based firewall can block unauthorized communication ports (like TCP 4444) on each workstation, preventing malware from establishing connections and spreading. Configuring the CPU's NX bit and enabling ASLR primarily help in mitigating memory-based exploits, not in stopping lateral movement. Enabling UEFI ensures boot integrity but does not mitigate active lateral communication. An edge firewall would protect the network perimeter, not internal workstation-to-workstation communication.
Reference:CompTIA SecurityX CAS-005, Domain 2.0: Implement host-based security solutions, including host-based firewalls to mitigate threats.

NEW QUESTION # 68
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