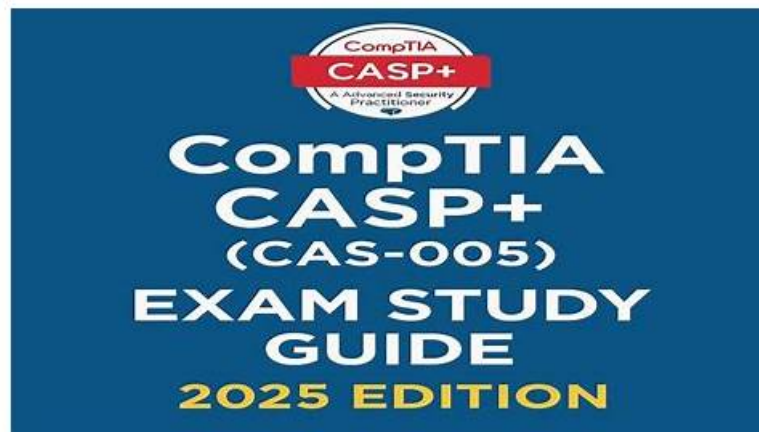


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CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems.
Topic 2	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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.

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CompTIA SecurityX Certification Exam Sample Questions (Q392-Q397):

NEW QUESTION # 392

You are a security analyst tasked with interpreting an Nmap scan output from company's privileged network.

The company's hardening guidelines indicate the following:

There should be one primary server or service per device.

Only default ports should be used.

Non-secure protocols should be disabled.

INSTRUCTIONS

Using the Nmap output, identify the devices on the network and their roles, and any open ports that should be closed.

For each device found by Nmap, add a device entry to the Devices Discovered list, with the following information:

The IP address of the device

The primary server or service of the device (Note that each IP should be associated with one service/port only) The protocol(s) that should be disabled based on the hardening guidelines (Note that multiple ports may need to be closed to comply with the hardening guidelines) If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

□

Answer:

Explanation:

10.1.45.65 SFTP Server Disable 8080

10.1.45.66 Email Server Disable 415 and 443

10.1.45.67 Web Server Disable 21, 80

10.1.45.68 UTM Appliance Disable 21

NEW QUESTION # 393

A security professional is investigating a trend in vulnerability findings for newly deployed cloud systems Given the following output:

□ Which of the following actions would address the root cause of this issue?

- A. Deploying a WAF with virtual patching upstream of the affected systems
- **B. Automating the patching system to update base Images**
- C. Disabling unused/unneeded ports on all servers
- D. Recompiling the affected programs with the most current patches

Answer: B

Explanation:

The output shows that multiple systems have outdated or vulnerable software versions (OpenSSL 1.0.1 and Java 11 runtime). This suggests that the systems are not being patched regularly or effectively.

A . Automating the patching system to update base images: Automating the patching process ensures that the latest security updates and patches are applied to all systems, including newly deployed ones. This addresses the root cause by ensuring that base images used for deployment are always up-to-date with the latest security patches.

B . Recompiling the affected programs with the most current patches: While this can fix the immediate vulnerabilities, it does not address the root cause of the problem, which is the lack of regular updates.

C . Disabling unused/unneeded ports on all servers: This improves security but does not address the specific issue of outdated software.

D . Deploying a WAF with virtual patching upstream of the affected systems: This can provide a temporary shield but does not resolve the underlying issue of outdated software.

Automating the patching system to update base images ensures that all deployed systems are using the latest, most secure versions of software, addressing the root cause of the vulnerability trend.

Reference:

CompTIA Security+ Study Guide

NIST SP 800-40 Rev. 3, "Guide to Enterprise Patch Management Technologies" CIS Controls, "Control 7: Continuous Vulnerability Management"

NEW QUESTION # 394

An analyst has prepared several possible solutions to a successful attack on the company. The solutions need to be implemented with the least amount of downtime. Which of the following should the analyst perform?

- A. Implement every solution one at a time in a virtual lab, running a metric collection each time. After the collection, run the attack SIMULATION, roll back each solution, and then implement the next. Choose the best solution based on the best metrics.
- **B. Implement every solution one at a time in a virtual lab, running an attack SIMULATION each time while collecting metrics. Roll back each solution and then implement the next. Choose the best solution based on the best metrics.**
- C. Implement all the solutions at once in a virtual lab and then run the attack SIMULATION. Collect the metrics and then choose the best solution based on the metrics.
- D. Implement all the solutions at once in a virtual lab and then collect the metrics. After collection, run the attack SIMULATION. Choose the best solution based on the best metrics.

Answer: B

Explanation:

To minimize downtime, testing should occur in a virtual lab, not production. The best approach is to test solutions methodically: implement one solution at a time, run an attack SIMULATION, collect metrics, roll back, and repeat. This isolates each solution's effectiveness, ensuring accurate metrics for decision-making without production impact.

Option A: Testing all solutions simultaneously muddies the results-metrics won't show which solution worked.

Option B: Collecting metrics before the SIMULATION misses the point of testing against the attack.

Option C: Correct-tests each solution independently with SIMULATION and metrics, minimizing downtime via virtual lab use.

Option D: Like A, combining solutions obscures individual effectiveness.

NEW QUESTION # 395

A building camera is remotely accessed and disabled from the remote console application during off-hours. A security analyst reviews the following logs:

□ A security architect is onboarding a new EDR agent on servers that traditionally do not have internet access. In order for the agent to receive updates and report back to the management console, some changes must be made. Which of the following should the architect do to best accomplish this requirement? (Select two).

- **A. Create a firewall rule to only allow traffic from the subnet to the internet via a proxy.**
- B. Configure a proxy policy that blocks all traffic on port 443.
- **C. Configure a proxy policy that allows only fully qualified domain names needed to communicate to a portal.**
- D. Create a firewall rule to only allow traffic from the subnet to the internet via port 443.
- E. Create a firewall rule to only allow traffic from the subnet to the internet to fully qualified names that are not identified as malicious by the firewall vendor.
- F. Configure a proxy policy that blocks only lists of known-bad, fully qualified domain names.

Answer: A,C

Explanation:

SecurityX CAS-005 endpoint security and network control objectives emphasize least privilege network access.

Creating a firewall rule to allow outbound traffic only via a proxy (A) ensures centralized inspection and control.

NEW QUESTION # 396

A security analyst wants to use lessons learned from a poor incident response to reduce dwell time in the future. The analyst is using the following data points:

□ Which of the following would the analyst most likely recommend?

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

Answer: A

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 # 397

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