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## COMPTIA SECURITYX EXAM OVERVIEW

Exam Code	CAS-005
Exam Duration	165 minutes
Number of Questions	Maximum 90 questions
Question Types	Multiple Choice & Performance-based
Passing Score	Pass/Fail only (no scaled score)
Recommended Experience	10+ years in IT (5+ years in security)
Testing Provider	Pearson VUE (Test center or online)
Launch Date	December 17, 2024
Certification Validity	3 years (renewable through continuing education)

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## CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>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.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>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.</li></ul>

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## CAS-005 Exam Questions Vce | CAS-005 Latest Exam Questions

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### CompTIA SecurityX Certification Exam Sample Questions (Q151-Q156):

#### NEW QUESTION # 151

A security analyst is reviewing a SIEM and generates the following report:

Log source	Destination IP	Source IP	Hostname	Event ID	Action	Time
DEV001	192.168.1.2	192.168.2.2	VM001	9928	Deny connection	4:55:28
DEV001	192.168.3.2	192.168.2.2	VM001	1912	IPS Alert	7:21:41
DEV001	10.1.1.1, 192.168.2.2, VM001, 1822					
DEV001	Malware detection, 8:11:22					
DEV001	10.1.1.1	192.168.2.2	VM001	9927	Allow connection	8:15:32

Later, the incident response team notices an attack was executed on the VM001 host. Which of the following should the security analyst do to enhance the alerting process on the SIEM platform?

- A. Include the EDR solution on the SIEM as a new log source.
- B. Create a new rule set to detect malware.
- C. Improve parsing of data on the SIEM.
- D. Perform a log correlation on the SIEM solution.

#### Answer: D

Explanation:

The SIEM already contains multiple events that, if correlated, would have indicated an active attack sequence on VM001—such as denied connections, IPS alerts, malware detection, and then an allowed connection. CAS-

005 Security Operations objectives emphasize log correlation as a way to enhance detection by linking related events across different time stamps and data sources into a single, higher-confidence alert.

\* Option A (adding EDR logs) could add visibility but does not address the need to connect existing events for earlier detection.

\* Option C (improving parsing) ensures readability but does not create actionable alerts.

\* Option D (creating a new malware detection rule) is redundant since malware detection already appeared in logs; the issue was the lack of correlation to act on it in time.

By correlating IDS, IPS, firewall, and malware detection logs, the SIEM can raise a higher-priority alert before the attack is completed.

#### NEW QUESTION # 152

An external SaaS solution user reports a bug associated with the role-based access control module. This bug allows users to bypass system logic associated with client segmentation in the multitenant deployment model. When assessing the bug report, the developer finds that the same bug was previously identified and addressed in an earlier release. The developer then determines the bug was reintroduced when an existing software component was integrated from a prior version of the platform. Which of the following is the best way to prevent this scenario?

- A. Code signing
- B. Software composition analysis
- C. User acceptance testing
- D. Regression testing
- E. Automated test and retest

## Answer: D

Explanation:

Regression testing is a software testing practice that ensures that recent code changes have not adversely affected existing functionalities. In this scenario, the reintroduction of a previously fixed bug indicates that changes or integrations brought back the old issue. Implementing comprehensive regression testing would help detect such reintroductions by systematically retesting the existing functionalities whenever changes are made to the codebase. This practice is crucial in maintaining the integrity of the application, especially in complex systems where multiple components interact.

Reference:

## NEW QUESTION # 153

A company's help desk is experiencing a large number of calls from the finance department stating access issues to www.bank.com. The security operations center reviewed the following security logs:

User	IP Address	Location	Website	DNS Resolved IP (public)	HTTP Status Code
User12	10.200.2.52/24	Finance	www.bank.com	65.146.76.34	495
User31	10.200.2.213/24	Finance	www.bank.com	65.146.76.34	495
User46	10.200.5.76/24	IT	www.bank.com	98.17.62.78	200
User23	10.200.2.156/24	R&D	www.bank.com	65.146.76.34	495
User51	10.200.4.128/24	Legal	www.bank.com	98.17.62.78	200

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

- A. The DNS record has been poisoned.
- B. **DNS traffic is being sinkholed.**
- C. The DNS was set up incorrectly.
- D. Recursive DNS resolution is failing

## Answer: B

Explanation:

Sinkholing, or DNS sinkholing, is a method used to redirect malicious traffic to a safe destination. This technique is often employed by security teams to prevent access to malicious domains by substituting a benign destination IP address.

In the given logs, users from the finance department are accessing www.bank.com and receiving HTTP status code 495. This status code is typically indicative of a client certificate error, which can occur if the DNS traffic is being manipulated or redirected incorrectly. The consistency in receiving the same HTTP status code across different users suggests a systematic issue rather than an isolated incident.

Recursive DNS resolution failure (A) would generally lead to inability to resolve DNS at all, not to a specific HTTP error.

DNS poisoning (B) could result in users being directed to malicious sites, but again, would likely result in a different set of errors or unusual activity.

Incorrect DNS setup (D) would likely cause broader resolution issues rather than targeted errors like the one seen here.

By reviewing the provided data, it is evident that the DNS traffic for www.bank.com is being rerouted improperly, resulting in consistent HTTP 495 errors for the finance department users. Hence, the most likely cause is that the DNS traffic is being sinkholed.

## NEW QUESTION # 154

A malicious actor exploited firmware vulnerabilities and used rootkits in an attack on an organization. After the organization recovered from the incident, an engineer needs to recommend a solution that reduces the likelihood of the same type of attack in the future. Which of the following is the most relevant solution?

- A. Enabling software integrity checks
- B. Configuring host-based encryption
- C. Installing self-encrypting drives
- D. **Implementing measured boot**

## Answer: D

Explanation:

The best solution to reduce the likelihood of firmware-level attacks and rootkits is to implement measured boot. Measured boot is a hardware-assisted security mechanism that leverages Trusted Platform Module (TPM) and Secure Boot processes. It records cryptographic measurements of each stage of the boot process—from firmware to operating system loaders—and stores them in the TPM. Security software, such as attestation services, can then verify that the system booted into a known, trusted state. If firmware

or boot-level code has been tampered with, the measurements will not match expected values, alerting administrators to compromise.

Option A (software integrity checks) validates application-level integrity but does not address firmware rootkits that load before the operating system. Option B (self-encrypting drives) protects data at rest but does not prevent rootkits. Option D (host-based encryption) ensures confidentiality but does not detect or mitigate firmware-level persistence.

Measured boot specifically targets low-level tampering, making it the most relevant control to defend against rootkits and firmware exploits.

## NEW QUESTION # 155

A security engineer is building a solution to disable weak CBC configuration for remote access connections to Linux systems. Which of the following should the security engineer modify?

- A. The /etc/openssl.conf file, updating the virtual site parameter
- B. The /etc/nsswitch.conf file, updating the name server
- C. The /etc/hosts file, updating the IP parameter
- D. The /etc/ssh/sshd\_config file updating the ciphers

**Answer: D**

Explanation:

The sshd\_config file is the main configuration file for the OpenSSH server. To disable weak CBC (Cipher Block Chaining) ciphers for SSH connections, the security engineer should modify the sshd\_config file to update the list of allowed ciphers. This file typically contains settings for the SSH daemon, including which encryption algorithms are allowed.

By editing the /etc/ssh/sshd\_config file and updating the Ciphers directive, weak ciphers can be removed, and only strong ciphers can be allowed. This change ensures that the SSH server does not use insecure encryption methods.

## NEW QUESTION # 156

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