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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>• 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>

Topic 3	<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 4	<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>

## CompTIA SecurityX Certification Exam Sample Questions (Q209-Q214):

### NEW QUESTION # 209

A company reduced its staff 60 days ago, and applications are now starting to fail. The security analyst is investigating to determine if there is malicious intent for the application failures. The security analyst reviews the following logs:

Mar 5 22:09:50 akj3 sshd[21502]: Success login for user01 from 192.168.2.5 Mar 5 22:10:00 akj3 sshd[21502]: Failed login for userID from 192.168.2.5 Which of the following is the most likely reason for the application failures?

- A. The root password has been changed.
- B. The user does not have sudo access.
- C. The user's home directory was deleted.
- D. The user's account was set as a service account.

**Answer: C**

Explanation:

Comprehensive and Detailed Step-by-Step Explanation:

When an employee leaves a company, their home directory might be deleted along with their account, leading to application failures if the directory contained configuration files, dependencies, or system scripts.

### NEW QUESTION # 210

A company hosts a platform-as-a-service solution with a web-based front end, through which customers interact with data sets. A security administrator needs to deploy controls to prevent application-focused attacks. Which of the following most directly supports the administrator's objective?

- A. Rotating API access and authorization keys every two months
- B. Creating WAF policies for relevant programming languages
- C. Implementing application load balancing and cross-region availability
- D. Improving security dashboard visualization on SIEM

**Answer: B**

Explanation:

The best way to prevent application-focused attacks for a platform-as-a-service solution with a web-based front end is to create Web Application Firewall (WAF) policies for relevant programming languages. Here's why:

\* Application-Focused Attack Prevention: WAFs are designed to protect web applications by filtering and monitoring HTTP traffic between a web application and the Internet. They help prevent attacks such as SQL injection, cross-site scripting (XSS), and other application-layer attacks.

\* Customizable Rules: WAF policies can be tailored to the specific programming languages and frameworks used by the web application, providing targeted protection based on known vulnerabilities and attack patterns.

\* Real-Time Protection: WAFs provide real-time protection, blocking malicious requests before they reach the application, thereby enhancing the security posture of the platform.

\* References:

\* CompTIA Security+ SY0-601 Study Guide by Mike Chapple and David Seidl

\* OWASP Top Ten: Web Application Security Risks

\* NIST Special Publication 800-95: Guide to Secure Web Services

## NEW QUESTION # 211

A security engineer wants to improve the security of an application as part of the development pipeline. The engineer reviews the following component of an internally developed web application that allows employees to manipulate documents from a number of internal servers:

response = requests.get(url)

Users can specify the document to be parsed by passing the document URL to the application as a parameter. Which of the following is the best solution?

- A. Penetration testing
- **B. Code scanner**
- C. Output encoding
- D. Indexing

### Answer: B

Explanation:

The application allows users to input URLs, which the application then fetches using `requests.get(url)`. This functionality can be exploited if not properly validated, leading to potential security vulnerabilities such as Server-Side Request Forgery (SSRF).

Implementing a code scanner as part of the development pipeline can help identify insecure coding practices, such as unsanitized user inputs and improper handling of external requests. Code scanners analyze the source code for known vulnerabilities and coding errors, enabling developers to remediate issues before deployment.

## NEW QUESTION # 212

After an incident response exercise, a security administrator reviews the following table:

Service	Risk rating	Criticality rating	Alert severity
Public website	Medium	Low	Low
Email	High	High	High
Human resources systems	High	Medium	Medium
Phone system	High	Critical	Critical
Intranet	Low	Low	Low

Which of the following should the administrator do to beat support rapid incident response in the future?

- A. Send emails for failed log-In attempts on the public website
- B. Configure automated Isolation of human resources systems
- **C. Enable dashboards for service status monitoring**
- D. Automate alerting to IT support for phone system outages.

### Answer: C

Explanation:

Enabling dashboards for service status monitoring is the best action to support rapid incident response. The table shows various services with different risk, criticality, and alert severity ratings. To ensure timely and effective incident response, real-time visibility into the status of these services is crucial.

Why Dashboards for Service Status Monitoring?

**Real-time Visibility:** Dashboards provide an at-a-glance view of the current status of all critical services, enabling rapid detection of issues.

**Centralized Monitoring:** A single platform to monitor the status of multiple services helps streamline incident response efforts.

**Proactive Alerting:** Dashboards can be configured to show alerts and anomalies immediately, ensuring that incidents are addressed as soon as they arise.

**Improved Decision Making:** Real-time data helps incident response teams make informed decisions quickly, reducing downtime and mitigating impact.

Other options, while useful, do not offer the same level of comprehensive, real-time visibility and proactive alerting:

A). Automate alerting to IT support for phone system outages: This addresses one service but does not provide a holistic view.

C). Send emails for failed log-in attempts on the public website: This is a specific alert for one type of issue and does not cover all services.

D). Configure automated isolation of human resources systems: This is a reactive measure for a specific service and does not provide real-time status monitoring.

References:

ComptIA SecurityX Study Guide

NIST Special Publication 800-61 Revision 2, "Computer Security Incident Handling Guide"

"Best Practices for Implementing Dashboards," Gartner Research

## NEW QUESTION # 213

A security architect is mitigating a vulnerability that previously led to a web application data breach. An analysis into the root cause of the issue finds the following:

An administrator's account was hijacked and used on several Autonomous System Numbers within 30 minutes.

All administrators use named accounts that require multifactor authentication.

Single sign-on is used for all company applications. Which of the following should the security architect do to mitigate the issue?

- A. Enable context-based authentication when network locations change on administrator login attempts.
- B. Enforce biometric authentication requirements for the administrator's named accounts.
- C. Decentralize administrator accounts and force unique passwords for each application.
- D. Configure token theft detection on the single sign-on system with automatic account lockouts.

**Answer: A**

Explanation:

The hijacked administrator account was used across multiple ASNs (indicating different network locations) in a short time, despite MFA and SSO. This suggests a stolen session or token misuse. Let's analyze:

A). Token theft detection with lockouts: Useful for detecting stolen SSO tokens, but it's reactive and may not prevent initial misuse across networks.

B). Context-based authentication: This adds real-time checks (e.g., geolocation, IP changes) to verify login attempts. Given the rapid ASN changes, this proactively mitigates the issue by challenging suspicious logins, aligning with CAS-005's focus on adaptive security.

C). Decentralize accounts: This removes SSO, increasing complexity and weakening MFA enforcement, which isn't practical or secure.

Reference: CompTIA SecurityX (CAS-005) objectives, Domain 2: Security Operations, emphasizing context-aware authentication for SSO environments.

## NEW QUESTION # 214

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