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## CompTIA SecurityX Certification Exam Sample Questions (Q19-Q24):

### NEW QUESTION # 19

A systems administrator wants to introduce a newly released feature for an internal application. The administrator does not want to test the feature in the production environment. Which of the following locations is the best place to test the new feature?

- A. Development environment

- B. Staging environment
- C. CI/CO pipeline
- D. Testing environment

**Answer: B**

Explanation:

The best location to test a newly released feature for an internal application, without affecting the production environment, is the staging environment. Here's a detailed explanation:

\* Staging Environment: This environment closely mirrors the production environment in terms of hardware, software, configurations, and settings. It serves as a final testing ground before deploying changes to production. Testing in the staging environment ensures that the new feature will behave as expected in the actual production setup.

\* Isolation from Production: The staging environment is isolated from production, which means any issues arising from the new feature will not impact the live users or the integrity of the production data.

This aligns with best practices in change management and risk mitigation.

\* Realistic Testing: Since the staging environment replicates the production environment, it provides realistic testing conditions. This helps in identifying potential issues that might not be apparent in a development or testing environment, which often have different configurations and workloads.

\* References:

\* CompTIA Security+ SY0-601 Official Study Guide by Quentin Docter, Jon Buhagiar

\* NIST Special Publication 800-53: Security and Privacy Controls for Information Systems and Organizations

## NEW QUESTION # 20

An organization is increasing its focus on training that addresses new social engineering and phishing attacks. Which of the following is the organization most concerned about?

- A. Overreliance on AI support bots
- B. Meeting existing regulatory compliance
- C. Differential analysis using AI models
- D. Generative AI tools increasing the quality of exploits

**Answer: D**

Explanation:

The organization is most concerned about Generative AI improving phishing and social engineering attacks. Tools like ChatGPT can generate highly convincing phishing emails, fake websites, and human-like interactions that bypass traditional detection methods.

Employees who were trained to spot poor grammar or obvious scams may now struggle to detect AI-crafted exploits.

Option A relates to compliance but not AI-driven threats. Option B (overreliance on AI bots) is operational risk, not phishing.

Option D (differential analysis) applies to AI privacy issues, not phishing.

CAS-005 emphasizes adapting training to emerging threats, including AI-enabled social engineering. This ensures users remain resilient against modern attacks, making C the correct answer.

## NEW QUESTION # 21

Which of the following best describes the reason PQC preparation is important?

- A. To improve encryption performance and speed using lightweight cryptography
- B. To have larger key lengths available through key stretching
- C. To leverage asymmetric encryption for large amounts of data
- D. To protect data against decryption due to increases in computational resource availability

**Answer: D**

Explanation:

Post-Quantum Cryptography (PQC) preparation is critical to protect data against future quantum computing attacks that could break current cryptographic algorithms (e.g., RSA, ECC). According to the CompTIA SecurityX CAS-005 study guide (Domain 3: Cybersecurity Technology, 3.3), quantum computers with sufficient computational power could perform calculations (e.g., Shor's algorithm) to decrypt data protected by traditional algorithms. PQC focuses on developing algorithms resistant to such increases in computational resources, ensuring long-term data security.

\* Option B: Key stretching is a technique to strengthen passwords, not related to PQC.

- \* Option C: PQC algorithms often have higher computational costs, not improved performance.
- \* Option D: Asymmetric encryption is not ideal for large data sets, and PQC is not specifically about this use case.
- \* Option A: This accurately describes PQC's purpose to safeguard data against quantum-driven decryption.

Reference:

CompTIA SecurityX CAS-005 Official Study Guide, Domain 3: Cybersecurity Technology, Section 3.3:

"Prepare for post-quantum cryptography challenges."

CAS-005 Exam Objectives, 3.3: "Evaluate the need for PQC in response to quantum computing advancements."

## NEW QUESTION # 22

A security engineer needs to secure the OT environment based on the following requirements

- \* Isolate the OT network segment
- \* Restrict Internet access.
- \* Apply security updates to workstations
- \* Provide remote access to third-party vendors

Which of the following design strategies should the engineer implement to best meet these requirements?

- A. Deploy a jump box on the third party network to access the OT environment and provide updates using a physical delivery method on the workstations
- **B. Implement a bastion host in the OT network with security tools in place to monitor access and use a dedicated update server for the workstations.**
- C. Enable outbound internet access on the OT firewall to any destination IP address and use the centralized update server for the workstations
- D. Create a staging environment on the OT network for the third-party vendor to access and enable automatic updates on the workstations.

**Answer: B**

Explanation:

To secure the Operational Technology (OT) environment based on the given requirements, the best approach is to implement a bastion host in the OT network. The bastion host serves as a secure entry point for remote access, allowing third-party vendors to connect while being monitored by security tools. Using a dedicated update server for workstations ensures that security updates are applied in a controlled manner without direct internet access.

References:

- \* CompTIA SecurityX Study Guide: Recommends the use of bastion hosts and dedicated update servers for securing OT environments.
- \* NIST Special Publication 800-82, "Guide to Industrial Control Systems (ICS) Security": Advises on isolating OT networks and using secure remote access methods.
- \* "Industrial Network Security" by Eric D. Knapp and Joel Thomas Langill: Discusses strategies for securing OT networks, including the use of bastion hosts and update servers.

## NEW QUESTION # 23

An analyst reviews a SIEM and generates the following report:

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

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

**Answer: D**

Explanation:

Comprehensive and Detailed Explanation:

- \* 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 NIST 800-94: Guidelines for Network Intrusion Detection and Analysis

## NEW QUESTION # 24

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