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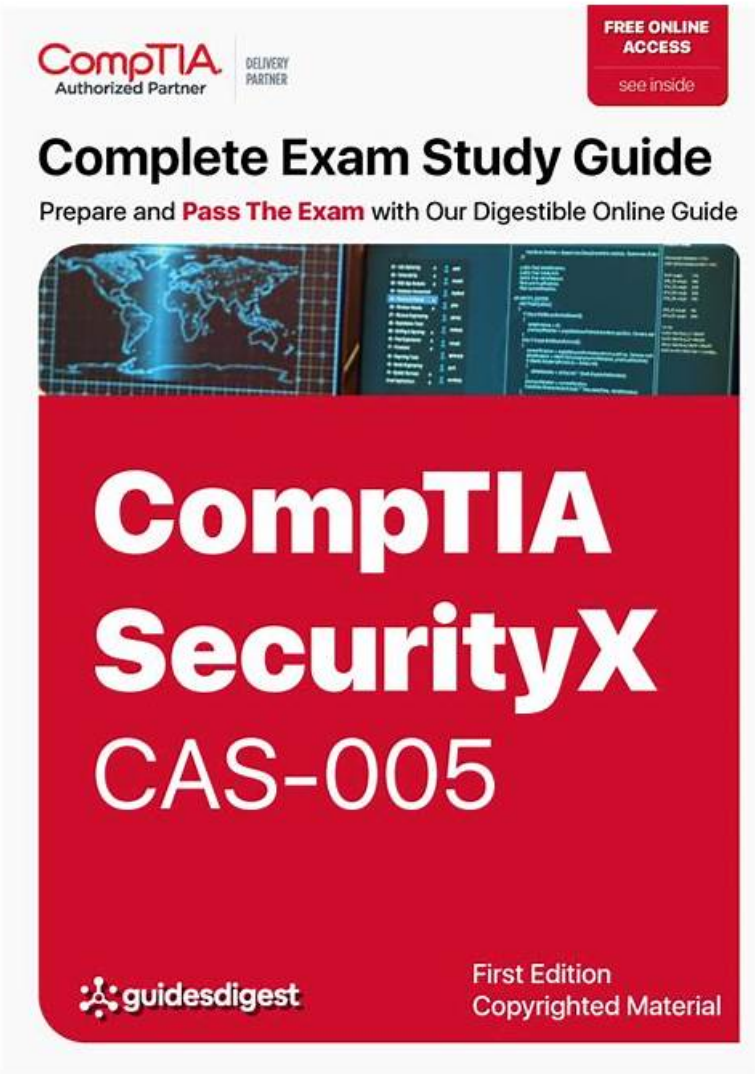

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CompTIA SecurityX Certification Exam Sample Questions (Q195-Q200):

NEW QUESTION # 195
A security analyst is reviewing the following code in the public repository for potential risk concerns:
Which of the following should the security analyst recommend first to remediate the vulnerability?

- A. Developing role-based security awareness training
- B. Revoking the secret used in the solution
- C. Scanning the application with SAST
- D. Purging code from public view

Answer: B

NEW QUESTION # 196
An organization found a significant vulnerability associated with a commonly used package in a variety of operating systems. The organization develops a registry of software dependencies to facilitate incident response activities. As part of the registry, the organization creates hashes of packages that have been formally vetted. Which of the following attack vectors does this registry address?

- A. Supply chain attack
- B. Side-channel analysis
- C. Cipher substitution attack
- D. On-path attack
- E. Pass-the-hash attack

Answer: A

Explanation:
A). Supply chain attack: This type of attack involves compromising the software supply chain by injecting malicious code into legitimate software packages.
B). Cipher substitution attack: This is a cryptographic attack focused on replacing ciphertext with a different ciphertext to deduce the key. It's not relevant to the scenario.
C). Side-channel analysis: This attack involves gathering information from the physical implementation of a system (e.g., timing, power consumption) rather than exploiting the algorithm itself. It's not applicable here.
D). On-path attack (formerly man-in-the-middle): This attack involves intercepting and potentially altering communication between two parties. While important, it's not theprimary focus of the registry.
E). Pass-the-hash attack: This attack involves using a stolen hash of a user's password to authenticate without needing the actual password. It's unrelated to software package integrity.
Why A is the Correct answer:
A supply chain attack is exactly what the organization is trying to mitigate. By creating a registry of known-good software packages and their hashes, they can verify that the packages they are using are legitimate and haven't been altered.
If an attacker were to compromise a software package in the supply chain, the hash of the altered package would not match the hash in the organization's registry. This would immediately alert the organization to a potential compromise.
CASP+ Relevance: This aligns with the CASP+ exam objectives, which emphasize the importance of risk management, threat intelligence, and implementing security controls to address various attack vectors, including supply chain risks.
How the Registry Works (Elaboration based on CASP+principles):
Hashing: When a package is vetted, a cryptographic hash function (like SHA-256) is used to generate a unique "fingerprint" (the hash) of the package's contents.
Verification: Before installing or using a package, its hash is calculated and compared to the hash stored in the registry. A match confirms the package's integrity. A mismatch indicates tampering.
Incident Response: If a vulnerability is discovered in a commonly used package, the registry helps the organization quickly identify which systems are affected based on the dependency list and the stored hashes.
In conclusion, maintaining a registry of software dependencies with hashes is a crucial security control that directly addresses the threat of supply chain attacks by ensuring the integrity and authenticity of software packages. The use of hash functions for verification is a common practice in security and is emphasized in the CASP+ material.
Explanation:
Step by Step

Understanding the Scenario: The question describes a proactive security measure where an organization maintains a registry of software dependencies and their corresponding hashes. This registry is used to verify the integrity of software packages.
Analyzing the Answer Choices:

NEW QUESTION # 197
An organization currently has IDS, firewall, and DLP systems in place. The systems administrator needs to integrate the tools in the environment to reduce response time. Which of the following should the administrator use?

- A. SOAR
- B. CWPP
- C. CMDB
- D. XCCDF

Answer: A

Explanation:
SOAR (Security Orchestration, Automation, and Response): SOAR integrates security tools, automates workflows, and speeds up incident response.

NEW QUESTION # 198
An organization mat performs real-time financial processing is implementing a new backup solution Given the following business requirements?
* The backup solution must reduce the risk for potential backup compromise
* The backup solution must be resilient to a ransomware attack.
* The time to restore from backups is less important than the backup data integrity
* Multiple copies of production data must be maintained
Which of the following backup strategies best meets these requirement?

- A. Setting up antitempering on the databases to ensure data cannot be changed unintentionally
- B. Creating a secondary, immutable storage array and updating it with live data on a continuous basis
- C. Enabling remote journaling on the databases to ensure real-time transactions are mirrored
- D. Utilizing two connected storage arrays and ensuring the arrays constantly sync

Answer: B

Explanation:
* A. Creating a secondary, immutable storage array and updating it with live data on a continuous basis: An immutable storage array ensures that data, once written, cannot be altered or deleted. This greatly reduces the risk of backup compromise and provides resilience against ransomware attacks, as the ransomware cannot modify or delete the backup data. Maintaining multiple copies of production data with an immutable storage solution ensures data integrity and compliance with the requirement for multiple copies.
Other options:
* B. Utilizing two connected storage arrays and ensuring the arrays constantly sync: While this ensures data redundancy, it does not provide protection against ransomware attacks, as both arrays could be compromised simultaneously.
* C. Enabling remote journaling on the databases: This ensures real-time transaction mirroring but does not address the requirement for reducing the risk of backup compromise or resilience to ransomware.
* D. Setting up anti-tampering on the databases: While this helps ensure data integrity, it does not provide a comprehensive backup solution that meets all the specified requirements.
References:
* CompTIA Security+ Study Guide
* NIST SP 800-209, "Security Guidelines for Storage Infrastructure"
* "Immutable Backup Architecture" by Veeam

NEW QUESTION # 199
SIMULATION
An organization is planning for disaster recovery and continuity of operations, and has noted the following relevant findings:
1. A natural disaster may disrupt operations at Site A, which would then cause an evacuation. Users are unable to log into the domain from-their workstations after relocating to Site B.

2. A natural disaster may disrupt operations at Site A, which would then cause the pump room at Site B to become inoperable.
3. A natural disaster may disrupt operations at Site A, which would then cause unreliable internet connectivity at Site B due to route flapping.
INSTRUCTIONS
Match each relevant finding to the affected host by clicking on the host name and selecting the appropriate number.
For findings 1 and 2, select the items that should be replicated to Site B. For finding 3, select the item requiring configuration changes, then select the appropriate corrective action from the drop-down menu.

Answer:

Explanation:
See the complete solution below in Explanation
Explanation:
Matching Relevant Findings to the Affected Hosts:
Finding 1:
Affected Host: DNS
Reason: Users are unable to log into the domain from their workstations after relocating to Site B, which implies a failure in domain name services that are critical for user authentication and domain login.
Finding 2:
Affected Host: Pumps
Reason: The pump room at Site B becoming inoperable directly points to the critical infrastructure components associated with pumping operations.
Finding 3:
Affected Host: VPN Concentrator
Reason: Unreliable internet connectivity at Site B due to route flapping indicates issues with network routing, which is often managed by VPN concentrators that handle site-to-site connectivity.
Corrective Actions for Finding 3:
Finding 3 Corrective Action:
Action: Modify the BGP configuration
Reason: Route flapping is often related to issues with Border Gateway Protocol (BGP) configurations. Adjusting BGP settings can stabilize routes and improve internet connectivity reliability.
Replication to Site B for Finding 1:
Affected Host: DNS
Domain Name System (DNS) services are essential for translating domain names into IP addresses, allowing users to log into the network. Replicating DNS services ensures that even if Site A is disrupted, users at Site B can still authenticate and access necessary resources.
Replication to Site B for Finding 2:
Affected Host: Pumps
The operation of the pump room is crucial for maintaining various functions within the infrastructure. Replicating the control systems and configurations for the pumps at Site B ensures that operations can continue smoothly even if Site A is affected.
Configuration Changes for Finding 3:
Affected Host: VPN Concentrator
Route flapping is a situation where routes become unstable, causing frequent changes in the best path for data to travel. This instability can be mitigated by modifying BGP configurations to ensure more stable routing. VPN concentrators, which manage connections between sites, are typically configured with BGP for optimal routing.
Reference:
CompTIA Security+ Study Guide: This guide provides detailed information on disaster recovery and continuity of operations, emphasizing the importance of replicating critical services and making necessary configuration changes to ensure seamless operation during disruptions.
CompTIA Security+ Exam Objectives: These objectives highlight key areas in disaster recovery planning, including the replication of critical services and network configuration adjustments.
Disaster Recovery and Business Continuity Planning (DRBCP): This resource outlines best practices for ensuring that operations can continue at an alternate site during a disaster, including the replication of essential services and network stability measures.
By ensuring that critical services like DNS and control systems for pumps are replicated at the alternate site, and by addressing network routing issues through proper BGP configuration, the organization can maintain operational continuity and minimize the impact of natural disasters on their operations.

NEW QUESTION # 200
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