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CompTIA SecurityX Certification Exam Sample Questions (Q159-Q164):

NEW QUESTION # 159

A Chief Information Security Officer is concerned about the operational impact of ransomware. In the event of a ransomware attack, the business requires the integrity of the data to remain intact and an RPO of less than one hour. Which of the following storage strategies best satisfies the business requirements?

- A. Remote journaling
- B. Full disk encryption
- C. Immutable
- D. RAID 10

Answer: A

Explanation:

Remote journaling continuously sends log updates to a remote system, ensuring near-real-time backup and an RPO (Recovery Point Objective) under one hour.

Key concepts:

RPO under one hour means minimal data loss.

Remote journaling provides rapid recovery by keeping near-live backups.

Other options:

A(Full disk encryption) protects against unauthorized access but does not aid recovery.

C (Immutable storage) prevents modification but does not ensure real-time backups.

D (RAID 10) improves redundancy but does not help against ransomware.

Reference: CASP+ CAS-005 - Business Continuity and Disaster Recovery Planning

NEW QUESTION # 160

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 # 161

A vulnerability can on a web server identified the following:

Which of the following actions would most likely eliminate on path decryption attacks? (Select two).

- A. Increasing the key length to 256 for TLS_RSA_WITH_AES_128_CBC_SHA
- B. Disallowing cipher suites that use ephemeral modes of operation for key agreement
- C. Restricting cipher suites to only allow TLS_RSA_WITH_AES_128_CBC_SHA
- D. Implementing HIPS rules to identify and block BEAST attack attempts
- E. Removing support for CBC-based key exchange and signing algorithms
- F. Adding TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA256

Answer: E,F

Explanation:

On-path decryption attacks, such as BEAST (Browser Exploit Against SSL/TLS) and other related vulnerabilities, often exploit weaknesses in the implementation of CBC (Cipher Block Chaining) mode. To mitigate these attacks, the following actions are recommended:

B: Removing support for CBC-based key exchange and signing algorithms: CBC mode is vulnerable to certain attacks like BEAST. By removing support for CBC-based ciphers, you can eliminate one of the primary vectors for these attacks. Instead, use modern cipher modes like GCM (Galois/Counter Mode) which offer better security properties.

C: Adding TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA256: This cipher suite uses Elliptic Curve Diffie-Hellman Ephemeral (ECDHE) for key exchange, which provides perfect forward secrecy. It also uses AES in GCM mode, which is not susceptible to the same attacks as CBC. SHA-256 is a strong hash function that ensures data integrity.

References:

CompTIA Security+ Study Guide

NIST SP 800-52 Rev. 2, "Guidelines for the Selection, Configuration, and Use of Transport Layer Security (TLS) Implementations"

OWASP (Open Web Application Security Project) guidelines on cryptography and secure communication

NEW QUESTION # 162

Based on the results of a SAST report on a legacy application, a security engineer is reviewing the following snippet of code flagged as vulnerable:

Which of the following is the vulnerable line of code that must be changed?

- A. Line 108]
- B. Line [07]
- C. Line [10]
- D. Line [04]
- E. Line (02]

Answer: C

Explanation:

The vulnerability lies in line [10], where the function strcpy(transmit, input) is used. The strcpy function does not perform boundary checking when copying strings. Since input is defined with a size of 256 characters and transmit only has 20 characters allocated, the strcpy operation will cause a buffer overflow when the contents of input exceed the allocated size of transmit. This creates a significant security vulnerability, as attackers can overwrite adjacent memory, potentially injecting malicious code or altering program execution.

Lines [02], [04], [07], and [08] are not inherently vulnerable by themselves. Line [04] defines the oversized input, but the vulnerability only materializes when combined with the unsafe copy in line [10]. Secure coding practices recommend using safer alternatives like strncpy, which includes a length parameter, or implementing runtime checks to ensure the destination buffer size is not exceeded.

NEW QUESTION # 163

A system of globally distributed certificate servers connected to HSMs provide certificate security services for a publicly available PKI. These services include OCSP, certificate revocation list issuance, and certificate signing/issuance. The HSMs are all physical devices. All other servers are virtualized. Each global site has a network load balancer, and the sites are configured to load balance between sites.

Users report occasional but persistent log-on failures to different PKI-enabled websites. There is no apparent pattern to the failures. Some OCSP responses must be signed by the HSM. Each HSM is connected to a physical server containing multiple VMs for the local site with CAT 6e network cable. The backplane connecting the VMs is fiber based.

Which of the following would best reduce the OCSP response time in order to rule out the connection between the certificate server and HSM as a cause of the user-reported issues?

- A. Shorten the time the duration certificates are valid to 72 hours and implement ACME.
- B. Replace the copper-based network infrastructure with fiber.
- C. Virtualize the HSMs and convert the virtualized servers to physical systems.
- D. Reduce the number of global sites while increasing the number of HSMs.

Answer: A

Explanation:

Shortening the certificate validity period and implementing ACME reduces reliance on OCSP by enabling more frequent automated certificate issuance and renewal, thereby decreasing OCSP query load and response times. This approach helps rule out HSM-to-certificate server connection delays as the cause of user log-on failures.

NEW QUESTION # 164

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