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CompTIA SecurityX Certification Exam Sample Questions (Q212-Q217):

NEW QUESTION # 212

During DAST scanning, applications are consistently reporting code defects in open-source libraries that were used to build web applications. Most of the code defects are from using libraries with known vulnerabilities.

The code defects are causing product deployment delays. Which of the following is the best way to uncover these issues earlier in the life cycle?

- A. Using a software dependency management solution
- B. Modifying the WAF policies to block against known vulnerabilities
- C. Completing an IAST scan against the web application
- D. Directing application logs to the SIEM for continuous monitoring

Answer: A

Explanation:

SecurityX CAS-005 exam content emphasizes integrating security into the SDLC and using automated tools to identify vulnerabilities

early.

- * Software dependency management solutions track and analyze libraries and components for known vulnerabilities before deployment, using vulnerability databases such as NVD or OSS Index.
- * IAST scanning still requires the application to be running and may detect issues later.
- * WAF policies help block attacks in production but do not prevent vulnerable code from being deployed.
- * SIEM monitoring is reactive and identifies issues after they occur. By detecting vulnerable dependencies early, software dependency management solutions prevent late-stage deployment delays and reduce security risk.

NEW QUESTION # 213

An administrator reviews the following log and determines the root cause of a site-to-site tunnel failure:

```
msg: INFORMATIONAL server side
msg: parsed QUICK_MODE request
msg: own selector set: 8.18.99.1/24
msg: client selector set: 8.18.99.1/24
msg: no matching selector config
msg: received proposals: ESP:AES_GCM_256/HMAC_SHA2_256
msg: configured proposals: ESP:AES_GCM_256/HMAC_SHA2_256
msg: no peer config found
```

Which of the following actions should the administrator take to most effectively correct the failure?

- A. Update the cipher suites configured for use on the server side.
- B. Enable perfect forward secrecy on the remote peer.
- C. Add a new subnet as a permitted initiator.
- D. Disable IKE version 1 and run IKE version 2.

Answer: C

NEW QUESTION # 214

A vulnerability can on a web server identified the following:

```
* TLS 1.2 Cipher Suites:
The server accepted the following cipher suites:
TLS_RSA_WITH_DES_CBC_SHA 56
TLS_RSA_WITH_AES_128_CBC_SHA 128
TLS_RSA_WITH_3DES_EDE_CBC_SHA 168
TLS_DHE_RSA_WITH_3DES_EDE_CBC_SHA 168 DH (1024 bits)
```

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

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

Answer: C,D

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.

Reference:

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 # 215

A security architect examines a section of code and discovers the following:

```
char username[20]
char password[20]
gets(username)
checkUserExists(username)
```

Which of the following changes should the security architect require before approving the code for release?

- A. Allow only alphanumeric characters for the username.
- B. Make the password variable longer to support more secure passwords.
- C. Add a password parameter to the checkUserExistsfunction.
- **D. Prevent more than 20 characters from being entered.**

Answer: D

Explanation:

The use of gets() allows an attacker to overflow the 20-byte username buffer by entering more data than it can hold. Enforcing a 20-character limit (for example, by switching to fgets(username, sizeof(username), stdin)) prevents buffer overruns and eliminates this class of vulnerability.

NEW QUESTION # 216

Which of the following key management practices ensures that an encryption key is maintained within the organization?

- A. Encrypting using server-side encryption capabilities provided by the cloud provider
- B. Encrypting using encryption and key storage systems provided by the cloud provider
- **C. Encrypting using a key stored in an on-premises hardware security module**
- D. Encrypting using a key escrow process for storage of the encryption key

Answer: C

Explanation:

Comprehensive and Detailed Step by Step

Understanding the Scenario: The question is about ensuring that an organization retains control over its encryption keys. It focuses on different key storage and management methods.

Analyzing the Answer Choices:

A . Encrypting using a key stored in an on-premises hardware security module (HSM): This is the best option for maintaining complete control over encryption keys. An HSM is a dedicated, tamper-resistant hardware device specifically designed for secure key storage and cryptographic operations. Storing keys on-premises within an HSM ensures the organization has exclusive access.

Reference:

B . Encrypting using server-side encryption capabilities provided by the cloud provider: With server-side encryption, the cloud provider typically manages the encryption keys. This means the organization is relinquishing some control over the keys.

C . Encrypting using encryption and key storage systems provided by the cloud provider: Similar to option B, using cloud-provider-managed key storage systems means the organization doesn't have full, exclusive control over the keys.

D . Encrypting using a key escrow process for storage of the encryption key: Key escrow involves entrusting a third party with a copy of the encryption key. This introduces a potential security risk, as the organization no longer has sole control over the key.

Also, the key is not maintained within the organization.

Why A is the Correct answer:

Control: On-premises HSMs provide the highest level of control over encryption keys. The organization has physical and logical control over the HSM and the keys stored within it.

Security: HSMs are designed to be tamper-resistant and protect keys from unauthorized access, even if the surrounding systems are compromised.

Compliance: In some industries, regulatory requirements may mandate that organizations maintain direct control over their encryption keys. On-premises HSMs can help meet these requirements.

CASP+ Relevance: HSMs, key management, and data encryption are fundamental topics in CASP+. The exam emphasizes understanding the security implications of different key management approaches.

Elaboration on Key Management Principles:

Key Lifecycle Management: Proper key management involves managing the entire lifecycle of a key, from generation and storage to rotation and destruction.

Separation of Duties: It's generally a good practice to separate the roles of key management and data encryption to enhance

security.

Access Control: Strict access controls should be in place to limit who can access and use encryption keys.

NEW QUESTION # 217

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