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CompTIA Advanced Security Practitioner (CASP+) Exam Sample Questions

(Q43-Q48):

NEW QUESTION # 43

A software development company is implementing a SaaS-based password vault for customers to use. The requirements for the password vault include:

Vault encryption using a variable block and key size

Resistance to brute-force attacks

Which of the following should be implemented to meet these requirements? (Select two.)

- A. AES
- B. PBKDF2
- C. P256
- D. RIPEMD
- E. RC5
- F. ECDSA

Answer: A,B

Explanation:

Comprehensive and Detailed Step by Step

PBKDF2 (Password-Based Key Derivation Function 2) strengthens passwords against brute-force attacks.

AES (Advanced Encryption Standard) supports variable block and key sizes, making it ideal for secure encryption.

RC5, P256, and ECDSA are not relevant to password vault requirements.

RIPEMD is a hashing algorithm and does not meet the criteria for encryption or brute-force resistance.

Reference:

CompTIA CASP+ Exam Objective 2.1: Implement cryptographic technologies.

CASP+ Study Guide, 5th Edition, Chapter 9, Cryptographic Tools.

NEW QUESTION # 44

A company's claims processed department has a mobile workforce that receives a large number of email submissions from personal email addresses. An employee recently received an email that appeared to be a claim form, but it installed malicious software on the employee's laptop when it was opened.

- A. Required all laptops to connect to the VPN before accessing email.
- B. Implement cloud-based content filtering with sandboxing capabilities.
- C. Implement application whitelisting and add only the email client to the whitelist for laptop in the claims processing department.
- D. Install a mail gateway to scan incoming messages and strip attachments before they reach the mailbox.

Answer: B

Explanation:

Explanation

Implementing cloud-based content filtering with sandboxing capabilities is the best solution for preventing malicious software installation on the employee's laptop due to opening an email attachment that appeared to be a claim form. Cloud-based content filtering is a technique that uses a cloud service to filter or block web traffic based on predefined rules or policies, preventing unauthorized or malicious access to web resources or services. Cloud-based content filtering can prevent malicious software installation on the employee's laptop due to opening an email attachment that appeared to be a claim form, as it can scan or analyze email attachments before they reach the mailbox and block or quarantine them if they are malicious. Sandboxing is a technique that uses an isolated or virtualized environment to execute or test suspicious or untrusted code or applications, preventing them from affecting the host system or network. Sandboxing can prevent malicious software installation on the employee's laptop due to opening an email attachment that appeared to be a claim form, as it can run or detonate email attachments in a safe environment and observe their behavior or impact before allowing them to reach the mailbox. Implementing application whitelisting and adding only the email client to the whitelist for laptops in the claims processing department is not a good solution for preventing malicious software installation on the employee's laptop due to opening an email attachment that appeared to be a claim form, as it could affect the usability or functionality of other applications on the laptops that may be needed for work purposes, as well as not prevent malicious software from running within the email client.

Requiring all laptops to connect to the VPN (virtual private network) before accessing email is not a good solution for preventing malicious software installation on the employee's laptop due to opening an email attachment that appeared to be a claim form, as it could introduce latency or performance issues for accessing email, as well as not prevent malicious software from reaching or

executing on the laptops. Installing a mail gateway to scan incoming messages and strip attachments before they reach the mailbox is not a good solution for preventing malicious software installation on the employee's laptop due to opening an email attachment that appeared to be a claim form, as it could affect the normal operations or functionality of email communication, as well as not prevent legitimate attachments from reaching the mailbox. Verified References:

<https://www.comptia.org/blog/what-is-cloud-based-content-filtering>

<https://partners.comptia.org/docs/default-source/resources/casp-content-guide>

NEW QUESTION # 45

A company is migrating its data center to the cloud. Some hosts had been previously isolated, but a risk assessment convinced the engineering team to reintegrate the systems. Because the systems were isolated, the risk associated with vulnerabilities was low. Which of the following should the security team recommend be performed before migrating these servers to the cloud?

- A. Deploying host and network IDS
- **B. Performing patching and hardening**
- C. Implementing least functionality and time-based access
- D. Creating a honeypot and adding decoy files

Answer: B

Explanation:

Before migrating previously isolated systems to the cloud, it is essential to perform patching and hardening.

These systems may have been neglected while isolated, so updating them with the latest security patches and applying hardening measures (such as disabling unnecessary services and implementing strict access controls) is crucial to reduce vulnerabilities. This ensures that the systems are secure before they are exposed to the wider cloud environment. CASP+ emphasizes the importance of securing systems through patch management and hardening before integrating them into more exposed environments like the cloud.

References:

* CASP+ CAS-004 Exam Objectives: Domain 2.0 - Enterprise Security Operations (Patching, Hardening, and Cloud Migration Security)

* CompTIA CASP+ Study Guide: Securing and Hardening Systems Before Cloud Migration

NEW QUESTION # 46

Ransomware encrypted the entire human resources fileshare for a large financial institution. Security operations personnel were unaware of the activity until it was too late to stop it. The restoration will take approximately four hours, and the last backup occurred 48 hours ago. The management team has indicated that the RPO for a disaster recovery event for this data classification is 24 hours.

Based on RPO requirements, which of the following recommendations should the management team make?

- A. Leave the current backup schedule intact and pay the ransom to decrypt the data.
- **B. Increase the frequency of backups and create SIEM alerts for IOCs.**
- C. Leave the current backup schedule intact and make the human resources fileshare read-only.
- D. Decrease the frequency of backups and pay the ransom to decrypt the data.

Answer: B

Explanation:

Explanation

Increasing the frequency of backups and creating SIEM (security information and event management) alerts for IOCs (indicators of compromise) are the best recommendations that the management team can make based on RPO (recovery point objective) requirements. RPO is a metric that defines the maximum acceptable amount of data loss that can occur during a disaster recovery event. Increasing the frequency of backups can reduce the amount of data loss that can occur, as it can create more recent copies or snapshots of the data.

Creating SIEM alerts for IOCs can help detect and respond to ransomware attacks, as it can collect, correlate, and analyze security events and data from various sources and generate alerts based on predefined rules or thresholds. Leaving the current backup schedule intact and paying the ransom to decrypt the data are not good recommendations, as they could result in more data loss than the RPO allows, as well as encourage more ransomware attacks or expose the company to legal or ethical issues. Leaving the current backup schedule intact and making the human resources fileshare read-only are not good recommendations, as they could result in more data loss than the RPO allows, as well as affect the normal operations or functionality of the fileshare.

Decreasing the frequency of backups and paying the ransom to decrypt the data are not good recommendations, as they could result in more data loss than the RPO allows, as well as increase the risk of losing data due to less frequent backups or unreliable

decryption. Verified References:
<https://www.comptia.org/blog/what-is-rpo>
<https://partners.comptia.org/docs/default-source/resources/casp-content-guide>

NEW QUESTION # 47

An organization is in frequent litigation and has a large number of legal holds.

Which of the following types of functionality should the organization's new email system provide?

- A. DLP
- B. Encryption
- C. Privacy-level agreements
- D. E-discovery

Answer: D

Explanation:

The organization's new email system should provide e-discovery functionality. E-discovery stands for electronic discovery, which is the process of identifying, preserving, collecting, processing, reviewing, analyzing, and producing electronically stored information (ESI) that is relevant to a legal matter. E-discovery can help the organization comply with legal holds, which are orders or notices to preserve relevant ESI when litigation is anticipated or ongoing. E-discovery can also help the organization reduce the costs and risks of litigation, as well as improve the efficiency and accuracy of the discovery process. Verified References:

<https://www.techtarget.com/searchsecurity/definition/electronic-discovery>

<https://www.techtarget.com/searchsecurity/definition/legal-hold>

<https://www.ibm.com/topics/electronic-discovery>

NEW QUESTION # 48

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