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What is the Certification Path of CompTIA CAS-004 Exam

The CompTIA Advanced Security Practitioner certification (CAS-004) is a validation of knowledge and skills required of a senior-level IT security professional to establish, implement, maintain and continuously monitor an organization's security program. The exam validates the hands-on skills required of seasoned professionals who have experience in network administration, risk management and compliance these types of questions also covered in **CompTIA CAS-004 exam dumps**. CompTIA CAS-004 Certification is the first step toward a career in information security, and provides a comprehensive knowledge base to make informed decisions and develop security policies and procedures that meet the needs of an enterprise.

The CompTIA CAS-004 certification is based on the information security foundation concepts provided by the organization. Current reviewing guides are available for the CompTIA Network+ certification. Computing environment regulations like the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) are updated in the different countries. Readiness roles focus on giving people the skills needed to prepare for, perform and succeed in a mission-critical environment. Integrate mobility centre in your IT infrastructure. Transferred frameworks infrastructure automation logon are available for free. The Transferred framework is an open source platform that allows the user to deploy, manage, and maintain secure remote workforce engagement solutions. Pool activities buffer pooling. Potential tenancy domain constantly changes, and this impacts your data.

CompTIA CAS-004, also known as the CompTIA Advanced Security Practitioner (CASP+) certification exam, is one of the most prestigious and globally recognized certifications in the field of information security. CAS-004 Exam is designed for advanced-level IT security professionals who have at least ten years of experience in IT administration, with five years of hands-on technical security experience.

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CompTIA Advanced Security Practitioner (CASP+) Exam Sample Questions (O610-O615):

NEW QUESTION #610

A small business requires a low-cost approach to theft detection for the audio recordings it produces and sells. Which of the following techniques will MOST likely meet the business's needs?

- A. Adding identifying filesystem metadata to the digital audio files
- B. Purchasing and installing a DRM suite
- C. Performing deep-packet inspection of all digital audio files
- D. Implementing steganography

Answer: D

Explanation:

Steganography is a technique that can hide data within other files or media, such as images, audio, or video. This can provide a low-cost approach to theft detection for the audio recordings produced and sold by the small business, as it can embed identifying information or watermarks in the audio files that can reveal their origin or ownership. Performing deep-packet inspection of all digital audio files may not be feasible or effective for theft detection, as it could consume a lot of bandwidth and resources, and it may not detect hidden data within encrypted packets. Adding identifying filesystem metadata to the digital audio files may not provide enough protection for theft detection, as filesystem metadata can be easily modified or removed by unauthorized parties. Purchasing and installing a DRM (digital rights management) suite may not be a low- cost approach for theft detection, as it could involve licensing fees and hardware requirements. Verified References: https://www.comptia.org/blog/what-is-steganography https://partners.comptia.org/docs/default-source/resources/casp-content-guide

NEW QUESTION #611

A security team is creating tickets to track the progress of remediation. Which of the following is used to specify the due dates for high- and critical-priority findings?

- A. MSA
- B. MOU
- C. ISA
- D. SLA

Answer: D

Explanation:

A Service Level Agreement (SLA) is the document used to specify due dates for the remediation of high- and critical-priority findings. SLAs outline the responsibilities of the service provider, including time frames for addressing issues or vulnerabilities, based on their severity. By setting clear timelines for remediation, SLAs ensure that critical security vulnerabilities are addressed in a timely manner. CASP+ emphasizes the importance of SLAs in maintaining accountability for security operations and ensuring compliance with organizational security policies.

References:

CASP+ CAS-004 Exam Objectives: Domain 1.0 - Risk Management (SLAs and Security Management) CompTIA CASP+ Study Guide: SLAs for Security Vulnerability Management

NEW QUESTION #612

A security engineer needs to ensure production containers are automatically scanned for vulnerabilities before they are accepted into the production environment. Which of the following should the engineer use to automatically incorporate vulnerability scanning on every commit?

- A. CI/CD pipeline
- B. Code repository
- C. Integrated development environment
- D. Container orchestrator

Answer: A

Explanation:

Step by Step Explanation:

- * CI/CD pipeline (Continuous Integration/Continuous Deployment) automates the testing, including vulnerability scanning, for every code commit before deploying to production.
- * Code repository stores the code but does not handle scanning.
- * Integrated development environment (IDE) aids developers in writing and testing code but does not enforce automated scanning.
- * Container orchestrator manages container deployment but does not directly address pre-production scanning.

Reference: CASP+ Exam Objectives 3.6 - Integrate automated security tools into the development process.

NEW QUESTION #613

A company created an external, PHP-based web application for its customers. A security researcher reports that the application has the Heartbleed vulnerability. Which of the following would BEST resolve and mitigate the issue? (Select TWO).

- A. Changing the code from PHP to ColdFusion
- B. Fixing the PHP code
- C. UsingSSLv3
- D. Changing the web server from HTTPS to HTTP
- E. Updating the OpenSSL library
- F. Deploying a WAF signature

Answer: E,F

Explanation:

Deploying a web application firewall (WAF) signature is a way to detect and block attempts to exploit the Heartbleed vulnerability on the web server. A WAF signature is a pattern that matches a known attack vector, such as a malicious heartbeat request. By deploying a WAF signature, the company can protect its web application from Heartbleed attacks until the underlying vulnerability is fixed.

Updating the OpenSSL library is the ultimate way to fix and mitigate the Heartbleed vulnerability. The OpenSSL project released version 1.0.1g on April 7, 2014, which patched the bug by adding a bounds check to the heartbeat function. By updating the OpenSSL library on the web server, the company can eliminate the vulnerability and prevent any future exploitation.

B: Fixing the PHP code is not a way to resolve or mitigate the Heartbleed vulnerability, because the vulnerability is not in the PHP code, but in the OpenSSL library that handles the SSL/TLS encryption for the web server.

C: Changing the web server from HTTPS to HTTP is not a way to resolve or mitigate the Heartbleed vulnerability, because it would expose all the web traffic to eavesdropping and tampering by attackers.

HTTPS provides confidentiality, integrity, and authentication for web communications, and should not be disabled for security reasons.

D: Using SSLv3 is not a way to resolve or mitigate the Heartbleed vulnerability, because SSLv3 is an outdated and insecure protocol that has been deprecated and replaced by TLS. SSLv3 does not support modern cipher suites, encryption algorithms, or security features, and is vulnerable to various attacks, such as POODLE.

E: Changing the code from PHP to ColdFusion is not a way to resolve or mitigate the Heartbleed vulnerability, because the vulnerability is not related to the programming language of the web application, but to the OpenSSL library that handles the SSL/TLS encryption for the web server.

https://owasp.org/www-community/vulnerabilities/Heartbleed_Bug https://heartbleed.com/

NEW QUESTION #614

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

Answer: B,C

Explanation:

Comprehensive and Detailed Step by Step Explanation:

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 ECDS Aare not relevant to password vault requirements.

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

References:

CompTIA CASP+ Exam Objective 2.1: Implement cryptographic technologies.

www.stes.tyc.edu.tw, www.stes.tyc.edu.tw, Disposable vapes

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

NEW QUESTION #615

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