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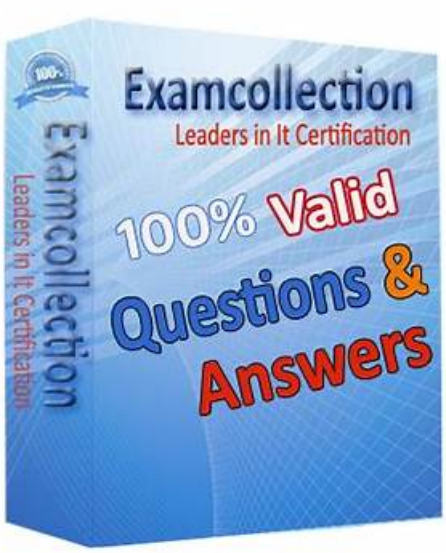

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CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	• Security Operations: This domain is designed for CompTIA security architects and covers analyzing data to support monitoring and response activities, as well as assessing vulnerabilities and recommending solutions to reduce attack surfaces. Candidates will apply threat-hunting techniques and utilize threat intelligence concepts to enhance operational security.
Topic 2	• Governance, Risk, and Compliance: This section of the exam measures the skills of CompTIA security architects that cover the implementation of governance components based on organizational security requirements, including developing policies, procedures, and standards. Candidates will learn about managing security programs, including awareness training on phishing and social engineering.

Topic 3	• Security Engineering: This section measures the skills of CompTIA security architects that involve troubleshooting common issues related to identity and access management (IAM) components within an enterprise environment. Candidates will analyze requirements to enhance endpoint and server security while implementing hardware security technologies. This domain also emphasizes the importance of advanced cryptographic concepts in securing systems.
Topic 4	• Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems.

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CompTIA SecurityX Certification Exam Sample Questions (Q10-Q15):

NEW QUESTION # 10
A developer needs to improve the cryptographic strength of a password-storage component in a web application without completely replacing the crypto-module. Which of the following is the most appropriate technique?

- A. Key encryption
- B. Key splitting
- C. Key rotation
- D. Key escrow
- E. Key stretching

Answer: E

Explanation:
The most appropriate technique to improve the cryptographic strength of a password-storage component in a web application without completely replacing the crypto-module is key stretching. Here's why:
Enhanced Security: Key stretching algorithms, such as PBKDF2, bcrypt, and scrypt, increase the computational effort required to derive the encryption key from the password, making brute-force attacks more difficult and time-consuming.
Compatibility: Key stretching can be implemented alongside existing cryptographic modules, enhancing their security without the need for a complete overhaul.
Industry Best Practices: Key stretching is a widely recommended practice for securely storing passwords, as it significantly improves resistance to password-cracking attacks.
Reference:
CompTIA Security+ SY0-601 Study Guide by Mike Chapple and David Seidl
NIST Special Publication 800-63B: Digital Identity Guidelines - Authentication and Lifecycle Management OWASP Password Storage Cheat Sheet

NEW QUESTION # 11
Third parties notified a company's security team about vulnerabilities in the company's application. The security team determined these vulnerabilities were previously disclosed in third-party libraries. Which of the following solutions best addresses the reported vulnerabilities?

- A. Using laC to include the newest dependencies
- B. Integrating a SASI tool as part of the pipeline
- C. Creating a bug bounty program
- D. Implementing a continuous security assessment program

Answer: B

Explanation:
The best solution to address reported vulnerabilities in third-party libraries is integrating a Static Application Security Testing (SAST) tool as part of the development pipeline. Here's why:
* Early Detection: SAST tools analyze source code for vulnerabilities before the code is compiled. This allows developers to identify and fix security issues early in the development process.
* Continuous Security: By integrating SAST tools into the CI/CD pipeline, the organization ensures continuous security assessment of the codebase, including third-party libraries, with each code commit and build.
* Comprehensive Analysis: SAST tools provide a detailed analysis of the code, identifying potential vulnerabilities in both proprietary code and third-party dependencies, ensuring that known issues in libraries are addressed promptly.
* References:
* CompTIA Security+ SY0-601 Study Guide by Mike Chapple and David Seidl
* OWASP Static Analysis Security Testing (SAST) Cheat Sheet
* NIST Special Publication 800-53: Security and Privacy Controls for Information Systems and Organizations

NEW QUESTION # 12
Users must accept the terms presented in a captive petal when connecting to a guest network. Recently, users have reported that they are unable to access the Internet after joining the network A network engineer observes the following:
* Users should be redirected to the captive portal.
* The Motive portal runs Tl. S 1 2
* Newer browser versions encounter security errors that cannot be bypassed
* Certain websites cause unexpected re directs
Which of the following mow likely explains this behavior?

- A. Employment of the HSTS setting is proliferating rapidly.
- B. The TLS ciphers supported by the captive portal ate deprecated
- C. An attacker is redirecting supplicants to an evil twin WLAN.
- D. Allowed traffic rules are causing the NIPS to drop legitimate traffic

Answer: B

Explanation:
The most likely explanation for the issues encountered with the captive portal is that the TLS ciphers supported by the captive portal are deprecated. Here's why:
TLS Cipher Suites: Modern browsers are continuously updated to support the latest security standards and often drop support for deprecated and insecure cipher suites. If the captive portal uses outdated TLS ciphers, newer browsers may refuse to connect, causing security errors.
HSTS and Browser Security: Browsers with HTTP Strict Transport Security (HSTS) enabled will not allow connections to sites with weak security configurations. Deprecated TLS ciphers would cause these browsers to block the connection.

NEW QUESTION # 13
A technician is reviewing the logs and notices a large number of files were transferred to remote sites over the course of three months. This activity then stopped. The files were transferred via TLS-protected HTTP sessions from systems that do not normally send traffic to those sites. The technician will define this threat as:

- A. An advanced persistent threat.
- B. A decrypting RSA using an obsolete and weakened encryption attack.
- C. A zero-day attack.
- D. An on-path attack.

Answer: A

Explanation:
The scenario describes a prolonged, stealthy operation where files were exfiltrated over three months via secure channels (TLS-protected HTTP) from unexpected systems, then ceased. This aligns with anAdvanced Persistent Threat (APT), characterized by long-term, targeted attacks aimed at data theft or surveillance, often using sophisticated methods to remain undetected.
* Option A:Decrypting RSA with weak encryption implies a cryptographic attack, but TLS suggests modern encryption was used, and there's no evidence of decryption here.
* Option B:A zero-day attack exploits unknown vulnerabilities, but the duration and cessation suggest a planned operation, not a single exploit.

* Option C:APT fits perfectly-slow, persistent exfiltration fromunusual systems indicates a coordinated, stealthy threat actor.
* Option D:An on-path (man-in-the-middle) attack intercepts traffic, but there's no indication of interception; the focus is on unauthorized transfers.
Reference:CompTIA SecurityX CAS-005 Domain 1: Risk Management - Threat Identification and Analysis.

NEW QUESTION # 14
A security architect for a global organization with a distributed workforce recently received funding lo deploy a CASB solution Which of the following most likely explains the choice to use a proxy-based CASB?

- A. The capability to block unapproved applications and services is possible
- B. Corporate devices cannot receive certificates when not connected to on-premises devices
- C. Protecting and regularly rotating API secret keys requires a significant time commitment
- D. Privacy compliance obligations are bypassed when using a user-based deployment.

Answer: A

Explanation:
A proxy-based Cloud Access Security Broker (CASB) is chosen primarily for its ability to block unapproved applications and services. Here's why:
Application and Service Control: Proxy-based CASBs can monitor and control the use of applications and services by inspecting traffic as it passes through the proxy. This allows the organization to enforce policies that block unapproved applications and services, ensuring compliance with security policies.
Visibility and Monitoring: By routing traffic through the proxy, the CASB can provide detailed visibility into user activities and data flows, enabling better monitoring and threat detection.
Real-Time Protection: Proxy-based CASBs can provide real-time protection against threats by analyzing and controlling traffic before it reaches the end user, thus preventing the use of risky applications and services.

NEW QUESTION # 15
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