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CAS-005: CompTIA SecurityX Certification Exam Prep

An overview of the advanced CompTIA SecurityX certification, covering exam details, target audience, and preparation tips.

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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	• 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 3	• Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems.
Topic 4	• 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.

>> New CAS-005 Test Experience <<

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CompTIA SecurityX Certification Exam Sample Questions (Q51-Q56):

NEW QUESTION # 51
A security engineer must resolve a vulnerability in a deprecated version of Python for a custom-developed flight simulation application that is monitored and controlled remotely. The source code is proprietary and built with Python functions running on the Ubuntu operating system. Version control is not enabled for the application in development or production. However, the application must remain online in the production environment using built-in features. Which of the following solutions best reduces the attack surface of these issues and meets the outlined requirements?

- A. Configure code-signing within the CI/CD pipeline, update Python with aptitude, and update modules with pip in a test environment. Deploy the solution to production.
- B. Configure version designation within the Python interpreter. Update Python with aptitude, and update modules with pip in a test environment. Deploy the solution to production.
- C. Use an NFS network share. Update Python with aptitude, and update modules with pip in a test environment. Deploy the solution to production.
- D. Enable branch protection in the GitHub repository. Update Python with aptitude, and update modules with pip in a test environment. Deploy the solution to production.

Answer: A

Explanation:
Code-signing within the CI/CD pipeline ensures that only verified and signed code is deployed, mitigating the risk of supply chain attacks. Updating Python with aptitude and updating modules with pip ensures vulnerabilities are patched. Deploying the solution to production after testing maintains application availability while securing the development lifecycle.
Branch protection (B) applies only to version-controlled environments, which is not the case here.
NFS network share (C) does not address the deprecated Python vulnerability.
Version designation (D) does not eliminate security risks from outdated dependencies.

NEW QUESTION # 52
A financial technology firm works collaboratively with business partners in the industry to share threat intelligence within a central platform This collaboration gives partner organizations the ability to obtain and share data associated with emerging threats from a variety of adversaries Which of the following should the organization most likely leverage to facilitate this activity? (Select two).

- A. CWPP
- B. TAXII
- C. ATTACK
- D. JTAG
- E. STIX
- F. YAKA

Answer: B,E

Explanation:
D . STIX (Structured Threat Information eXpression): STIX is a standardized language for representing threat information in a structured and machine-readable format. It facilitates the sharing of threat intelligence by ensuring that data is consistent and can be easily understood by all parties involved.
E . TAXII (Trusted Automated eXchange of Indicator Information): TAXII is a transport mechanism that enables the sharing of cyber threat information over a secure and trusted network. It works in conjunction with STIX to automate the exchange of threat intelligence among organizations.
Other options:

A . CWPP (Cloud Workload Protection Platform): This focuses on securing cloud workloads and is not directly related to threat intelligence sharing.
B . YARA: YARA is used for malware research and identifying patterns in files, but it is not a platform for sharing threat intelligence.
C . ATT&CK: This is a knowledge base of adversary tactics and techniques but does not facilitate the sharing of threat intelligence data.
F . JTAG: JTAG is a standard for testing and debugging integrated circuits, not related to threat intelligence.
Reference:
CompTIA Security+ Study Guide
"STIX and TAXII: The Backbone of Threat Intelligence Sharing" by MITRE
NIST SP 800-150, "Guide to Cyber Threat Information Sharing"

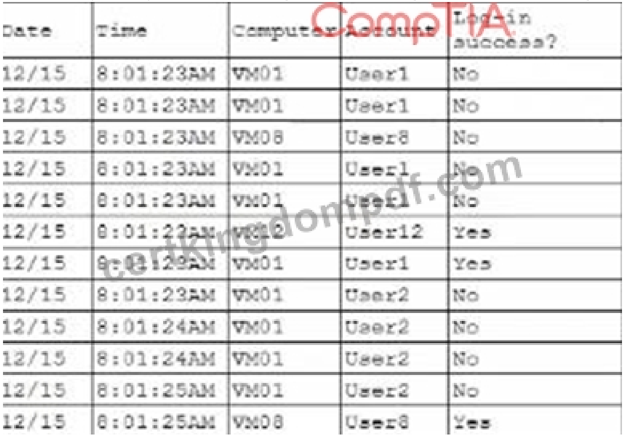
NEW QUESTION # 53
A social media company wants to change encryption ciphers after identifying weaknesses in the implementation of the existing ciphers. The company needs the new ciphers to meet the following requirements:
* Utilize less RAM than competing ciphers.
* Be more CPU-efficient than previous ciphers.
* Require customers to use TLS 1.3 while broadcasting video or audio.
Which of the following is the best choice for the social media company?

- A. ChaCha20-Poly1305
- B. Camellia-CBC
- C. IDEA-CBC
- D. AES-GCM

Answer: A

Explanation:
ChaCha20-Poly1305is a cipher suite specifically designed for efficiency on systems with limited hardware resources. It offers high security with lower memory and CPU consumption compared to AES on certain platforms, especially mobile devices. TLS 1.3 supports ChaCha20-Poly1305 natively. CBC (Cipher Block Chaining) modes like IDEA-CBC and Camellia-CBC are less efficient and not recommended under TLS 1.3, and AES-GCM, while secure, can be less efficient than ChaCha20 on devices without AES hardware acceleration.
Reference:

NEW QUESTION # 54
A security analyst is reviewing the following authentication logs:



Date	Time	Computer	Account	Log-in success?
12/15	8:01:23AM	VM01	User1	No
12/15	8:01:23AM	VM01	User1	No
12/15	8:01:23AM	VM08	User8	No
12/15	8:01:23AM	VM01	User1	No
12/15	8:01:23AM	VM01	User1	No
12/15	8:01:22AM	VM12	User12	Yes
12/15	8:01:29AM	VM01	User1	Yes
12/15	8:01:23AM	VM01	User2	No
12/15	8:01:24AM	VM01	User2	No
12/15	8:01:24AM	VM01	User2	No
12/15	8:01:25AM	VM01	User2	No
12/15	8:01:25AM	VM08	User8	Yes

Which of the following should the analyst do first?

- A. Disable User2's account
- B. Disable User1's account
- C. Disable User8's account
- D. Disable User12's account

Answer: B

Explanation:
Based on the provided authentication logs, we observe that User1's accountexperienced multiple failed login attempts within a very short time span (at 8:01:23 AM on 12/15). This pattern indicates a potential brute-force attack or an attempt to gain unauthorized access. Here's a breakdown of why disabling User1's account is the appropriate first step:
Failed Login Attempts: The logs show that User1 had four consecutive failed login attempts:
VM01 at 8:01:23 AM
VM08 at 8:01:23 AM
VM01 at 8:01:23 AM
VM08 at 8:01:23 AM
Security Protocols and Best Practices: According to CompTIA Security+ guidelines, multiple failed login attempts within a short timeframe should trigger an immediate response to prevent further potential unauthorized access attempts. This typically involves temporarily disabling the account to stop ongoing brute-force attacks.
Account Lockout Policy: Implementing an account lockout policy is a standard practice to thwart brute-force attacks. Disabling User1's account will align with these best practices and prevent further failed attempts, which might lead to successful unauthorized access if not addressed.
Reference:
CompTIA Security+ SY0-601 Study Guide by Mike Chapple and David Seidl
CompTIA Security+ Certification Exam Objectives
NIST Special Publication 800-63B: Digital Identity Guidelines
By addressing User1's account first, we effectively mitigate the immediate threat of a brute-force attack, ensuring that further investigation can be conducted without the risk of unauthorized access continuing during the investigation period.

NEW QUESTION # 55
After discovering that an employee is using a personal laptop to access highly confidential data, a systems administrator must secure the company's data. Which of the following capabilities best addresses this situation?

- A. SOAR
- B. OCSP stapling
- C. Conditional access
- D. Package monitoring
- E. CASB

Answer: C

Explanation:
The best solution is Conditional Access (D). Conditional access policies enforce access requirements based on contextual signals such as device compliance, user identity, location, or risk profile. In this case, the administrator can configure conditional access to ensure that only managed, corporate-approved devices are allowed to access confidential data. If an employee attempts to use a personal laptop, the access request will be blocked or redirected to a secure process (e.g., virtual desktop).
Option A (OCSP stapling) relates to certificate revocation checking and does not control device access. Option B (CASB) provides cloud access visibility and control but is broader and less precise than enforcing direct device-level conditional policies. Option C (SOAR) orchestrates responses but is not primarily designed for access enforcement. Option E (package monitoring) detects software changes but does not prevent unauthorized device usage.
Conditional access is a core principle in Zero Trust and modern IAM, making it the best solution for ensuring that sensitive data can only be accessed from trusted devices.

NEW QUESTION # 56
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