New CAS-005 Test Question - CAS-005 Reliable Dumps Pdf

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CompTIA CAS-005 Exam Syllabus Topics:

Topic	Details
Topic 1	• Security Architecture: This domain focuses on analyzing requirements to design resilient systems, including the configuration of firewalls and intrusion detection systems.
Topic 2	• 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 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	• 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.

CAS-005 Reliable Dumps Pdf, CAS-005 Valid Test Notes

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CompTIA SecurityX Certification Exam Sample Questions (Q80-Q85):

NEW QUESTION # 80
An analyst has prepared several possible solutions to a successful attack on the company. The solutions need to be implemented with the least amount of downtime. Which of the following should the analyst perform?

- A. Implement every solution one at a time in a virtual lab, running a metric collection each time. After the collection, run the attack SIMULATION, roll back each solution, and then implement the next. Choose the best solution based on the best metrics.
- B. Implement all the solutions at once in a virtual lab and then collect the metrics. After collection, run the attack SIMULATION. Choose the best solution based on the best metrics.
- C. Implement all the solutions at once in a virtual lab and then run the attack SIMULATION. Collect the metrics and then choose the best solution based on the metrics.
- D. Implement every solution one at a time in a virtual lab, running an attack SIMULATION each time while collecting metrics. Roll back each solution and then implement the next. Choose the best solution based on the best metrics.

Answer: D

Explanation:
To minimize downtime, testing should occur in a virtual lab, not production. The best approach is to test solutions methodically: implement one solution at a time, run an attack SIMULATION, collect metrics, roll back, and repeat. This isolates each solution's effectiveness, ensuring accurate metrics for decision-making without production impact.
Option A:Testing all solutions simultaneously muddies the results-metrics won't show which solution worked.
Option B:Collecting metrics before the
SIMULATION misses the point of testing against the attack.
Option C:Correct-tests each solution independently with
SIMULATION and metrics, minimizing downtime via virtual lab use.
Option D:Like A, combining solutions obscures individual effectiveness.

NEW QUESTION # 81
Which of the following AI concerns is most adequately addressed by input sanitation?

- A. Non-explainable model
- B. Data poisoning
- C. Model inversion

- D. Prompt Injection

Answer: D

Explanation:
Input sanitation is a critical process in cybersecurity that involves validating and cleaning data provided by users to prevent malicious inputs from causing harm. In the context of AI concerns:
* A. Model inversion involves an attacker inferring sensitive data from model outputs, typically requiring sophisticated methods beyond just manipulating input data.
* B. Prompt Injection is a form of attack where an adversary provides malicious input to manipulate the behavior of AI models, particularly those dealing with natural language processing (NLP). Input sanitation directly addresses this by ensuring that inputs are cleaned and validated to remove potentially harmful commands or instructions that could alter the AI's behavior.
* C. Data poisoning involves injecting malicious data into the training set to compromise the model.
While input sanitation can help by filtering out bad data, data poisoning is typically addressed through robust data validation and monitoring during the model training phase, rather than real-time input sanitation.
* D. Non-explainable model refers to the lack of transparency in how AI models make decisions. This concern is not addressed by input sanitation, as it relates more to model design and interpretability techniques.
Input sanitation is most relevant and effective for preventing Prompt Injection attacks, where the integrity of user inputs directly impacts the performance and security of AI models.
References:
* CompTIA Security+ Study Guide
* "Security of Machine Learning" by Battista Biggio, Blaine Nelson, and Pavel Laskov
* OWASP (Open Web Application Security Project) guidelines on input validation and injection attacks Top of Form Bottom of Form

NEW QUESTION # 82
SIMULATION
An IPSec solution is being deployed. The configuration files for both the VPN concentrator and the AAA server are shown in the diagram.
Complete the configuration files to meet the following requirements:
* The EAP method must use mutual certificate-based authentication (With issued client certificates).
* The IKEv2 Cipher suite must be configured to the MOST secure
authenticated mode of operation,
* The secret must contain at least one uppercase character, one lowercase character, one numeric character, and one special character, and it must meet a minimum length requirement of eight characters, INSTRUCTIONS Click on the AAA server and VPN concentrator to complete the configuration.
Fill in the appropriate fields and make selections from the drop-down menus.
VPN Concentrator:
AAA Server:

Answer:

Explanation:
See the answer below in Explanation
Explanation:
VPN Concentrator:
AAA Server:

NEW QUESTION # 83
After remote desktop capabilities were deployed in the environment, various vulnerabilities were noticed.
- Exfiltration of intellectual property
- Unencrypted files
- Weak user passwords
Which of the following is the best way to mitigate these vulnerabilities? (Select two).

- A. Enabling modem authentication that supports MFA
- B. Implementing a version control system
- C. Implementing data loss prevention

- D. Implementing a CMDB platform
- E. Deploying file integrity monitoring
- F. Restricting access to critical file services only
- G. Deploying directory-based group policies

Answer: A,C

Explanation:
To mitigate the identified vulnerabilities, the following solutions are most appropriate:
Implementing data loss prevention (DLP): DLP solutions help prevent the unauthorized transfer of data outside the organization. This directly addresses the exfiltration of intellectual property by monitoring, detecting, and blocking sensitive data transfers.
Enabling modern authentication that supports Multi-Factor Authentication (MFA): This significantly enhances security by requiring additional verification methods beyond just passwords. It addresses the issue of weak user passwords by making it much harder for unauthorized users to gain access, even if they obtain the password.

NEW QUESTION # 84
A cybersecurity architect is reviewing the detection and monitoring capabilities for a global company that recently made multiple acquisitions. The architect discovers that the acquired companies use different vendors for detection and monitoring. The architect's goal is to:
- Create a collection of use cases to help detect known threats
- Include those use cases in a centralized library for use across all
of the companies
Which of the following is the best way to achieve this goal?

- A. Sigma rules
- B. Ariel Query Language
- C. TAXII/STIX library
- D. UBA rules and use cases

Answer: A

Explanation:
To create a collection of use cases for detecting known threats and include them in a centralized library for use across multiple companies with different vendors, Sigma rules are the best option.
Vendor-Agnostic Format: Sigma rules are a generic and open standard for writing SIEM (Security Information and Event Management) rules. They can be translated to specific query languages of different SIEM systems, making them highly versatile and applicable across various platforms.
Centralized Rule Management: By using Sigma rules, the cybersecurity architect can create a centralized library of detection rules that can be easily shared and implemented across different detection and monitoring systems used by the acquired companies. This ensures consistency in threat detection capabilities.
Ease of Use and Flexibility: Sigma provides a structured and straightforward format for defining detection logic. It allows for the easy creation, modification, and sharing of rules, facilitating collaboration and standardization across the organization.

NEW QUESTION # 85
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