

CS0-003 New Question & Exam CS0-003 Study Guide

NEW QUESTION 1

An analyst is investigating an anomalous event reported by the SOC. After reviewing the system logs the analyst identifies an unexpected addition of a user with root-level privileges on the endpoint. Which of the following data sources will BEST help the analyst to determine whether this event constitutes an incident?

- A. Patching logs
- B. Threat feeds
- C. Backup logs
- D. Change requests
- E. Data classification matrix

Answer: D

NEW QUESTION 2

An analyst is participating in the solution analysis process for a cloud-hosted SIEM platform to centralize log monitoring and alerting capabilities in the SOC. Which of the following is the BEST approach for supply chain assessment when selecting a vendor?

- A. Gather information from providers, including datacenter specifications and copies of audit reports.
- B. Identify SLA requirements for monitoring and logging.
- C. Consult with senior management for recommendations.
- D. Perform a proof of concept to identify possible solutions.

Answer: A

NEW QUESTION 3

An information security analyst observes anomalous behavior on the SCADA devices in a power plant. This behavior results in the industrial generators overheating and destabilizing the power supply.

Which of the following would BEST identify potential indicators of compromise?

- A. Use Burp Suite to capture packets to the SCADA device's IP.
- B. Use tcpdump to capture packets from the SCADA device IP.
- C. Use Wireshark to capture packets between SCADA devices and the management system.
- D. Use Nmap to capture packets from the management system to the SCADA devices.

Answer: C

NEW QUESTION 4

An analyst has been asked to provide feedback regarding the control required by a revised regulatory framework. At this time, the analyst only needs to focus on the technical controls. Which of the following should the analyst provide an assessment of?

- A. Tokenization of sensitive data
- B. Establishment of data classifications
- C. Reporting on data retention and purging activities
- D. Formal identification of data ownership
- E. Execution of NDAs

Answer: A

NEW QUESTION 5

A finance department employee has received a message that appears to have been sent from the Chief Financial Officer (CFO) asking the employee to perform a wire transfer. Analysis of the email shows the message came from an external source and is fraudulent. Which of the following would work BEST to improve the likelihood of employees quickly recognizing fraudulent emails?

- A. Implementing a sandboxing solution for viewing emails and attachments
- B. Limiting email from the finance department to recipients on a pre-approved whitelist
- C. Configuring email client settings to display all messages in plaintext when read
- D. Adding a banner to incoming messages that identifies the messages as external

Answer: D

NEW QUESTION 6

After receiving reports of latency, a security analyst performs an Nmap scan and observes the following output:

Which of the following suggests the system that produced output was compromised?

- A. Secure shell is operating of compromise on this system.
- B. There are no indicators of compromise on this system.
- C. MySQL services is identified on a standard PostgreSQL port.
- D. Standard HTTP is open on the system and should be closed.

Answer: A

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CompTIA Cybersecurity Analyst (CySA+) Certification Exam Sample Questions (Q396-Q401):

NEW QUESTION # 396

A cybersecurity analyst is participating with the DLP project team to classify the organization's data. Which of the following is the primary purpose for classifying data?

- A. To establish the value of data to the organization
- B. To prioritize IT expenses
- C. To identify regulatory compliance requirements
- D. To facilitate the creation of DLP rules

Answer: A

Explanation:

Comprehensive and Detailed Explanation:

The primary purpose of data classification is to determine the value of data to the organization. This helps in defining protection levels, access controls, and risk mitigation strategies.

* Option A (Regulatory compliance requirements) is important but not the primary reason.

Compliance is a result of data classification, not its purpose.

* Option B (Facilitating DLP rules) is a secondary benefit, but classification is broader and not limited to DLP.

* Option C (Prioritizing IT expenses) is unrelated to why organizations classify data.

Thus, D is the correct answer, as classification helps organizations prioritize data protection based on its value.

NEW QUESTION # 397

Which of the following will most likely ensure that mission-critical services are available in the event of an incident?

- A. Business continuity plan
- B. Asset management plan
- C. Vulnerability management plan
- D. Disaster recovery plan

Answer: D

NEW QUESTION # 398

A code review reveals a web application is using lime-based cookies for session management.

This is a security concern because lime-based cookies are easy to:

- A. guess.
- B. decrypt.
- C. parameterize.
- D. decode.

Answer: A

Explanation:

Lime-based cookies (which are typically simple, predictable, or weakly-generated cookies) present a security risk because they are easy to guess, making them susceptible to session hijacking and other attacks. Attackers can easily determine the cookie value if the method used for generation is not strong or random enough, leading to unauthorized access.

NEW QUESTION # 399

Which of the following would help an analyst to quickly find out whether the IP address in a SIEM alert is a known-malicious IP address?

- A. Join an information sharing and analysis center specific to the company's industry
- **B. Add data enrichment for IPs in the ingestion pipeline**
- C. Upload threat intelligence to the IPS in STIX/TAXII format
- D. Review threat feeds after viewing the SIEM alert

Answer: B

Explanation:

The best option to quickly find out whether the IP address in a SIEM alert is a known-malicious IP address is C. Add data enrichment for IPS in the ingestion pipeline. Data enrichment is the process of adding more information and context to raw data, such as IP addresses, by using external sources. Data enrichment can help analysts to gain more insights into the nature and origin of the threats they face, and to prioritize and respond to them accordingly. Data enrichment for IPS (Intrusion Prevention System) means that the IPS can use enriched data to block or alert on malicious traffic based on various criteria, such as geolocation, reputation, threat intelligence, or behavior. By adding data enrichment for IPS in the ingestion pipeline, analysts can leverage the IPS's capabilities to filter out known-malicious IP addresses before they reach the SIEM, or to tag them with relevant information for further analysis. This can save time and resources for the analysts, and improve the accuracy and efficiency of the SIEM. The other options are not as effective or efficient as data enrichment for IPS in the ingestion pipeline. Joining an information sharing and analysis center (ISAC) specific to the company's industry (A) can provide valuable threat intelligence and best practices, but it may not be timely or comprehensive enough to cover all possible malicious IP addresses. Uploading threat intelligence to the IPS in STIX/TAXII format (B) can help the IPS to identify and block malicious IP addresses based on standardized indicators of compromise, but it may require manual or periodic updates and integration with the SIEM. Reviewing threat feeds after viewing the SIEM alert (D) can help analysts to verify and contextualize the malicious IP addresses, but it may be too late or too slow to prevent or mitigate the damage. Therefore, C is the best option among the choices given.

NEW QUESTION # 400

A cybersecurity analyst is recommending a solution to ensure emails that contain links or attachments are tested before they reach a mail server. Which of the following will the analyst most likely recommend?

- A. MFA
- B. Vulnerability scan
- C. DKIM
- **D. Sandboxing**

Answer: D

Explanation:

To "test" links/attachments before they reach the mail server, the organization needs a control that can execute or detonate suspicious content in a controlled environment and observe behavior. That is exactly what sandboxing does.

Secbay Press defines sandboxing as executing suspicious files/applications in a virtualized environment to observe behavior (i.e., safe testing/detonation):

Exact extract (Secbay Press): "Joe Sandbox is a malware analysis platform that utilizes virtualized environments (sandboxing) to execute and observe the behavior of suspicious files or applications ." The official CS0-003 objectives list Sandboxing (Joe Sandbox / Cuckoo Sandbox) under tools used to determine malicious activity, aligning with the exam's expectation that sandboxing is used to analyze suspicious content.

Why the other choices are not correct:

* B (MFA): helps protect accounts, but doesn't "test" attachments/links.

* C (DKIM): authenticates sender domain and message integrity, but doesn't detonate or test payloads.

* D (Vulnerability scan): targets hosts/services/configurations, not real-time detonation of email attachments/links.

References (CompTIA CySA+ CS0-003 documents / study guides used):

* Secbay Press, CompTIA CySA+ Exam Prep Guide (CS0-003) : sandboxing executes/observes suspicious files in a virtualized environment

* CompTIA CySA+ CS0-003 Exam Objectives v4.0: includes sandboxing tools (Joe Sandbox, Cuckoo Sandbox)

* Chapple/Seidl, CompTIA CySA+ Study Guide (CS0-003) : DKIM is for verifying sender/domain integrity, not payload testing

NEW QUESTION # 401

