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CompTIA Cybersecurity Analyst (CySA+) Certification Exam Sample Questions (Q213-Q218):

NEW QUESTION # 213

A security analyst is responding to an incident that involves a malicious attack on a network. Data closet. Which of the following best explains how an analyst should properly document the incident?

- A. Take photos of the impacted items
- B. Record and validate each connection
- C. Create a full diagram of the network infrastructure
- D. Back up the configuration file for all network devices

Answer: A

Explanation:

When documenting a physical incident in a network data closet, taking photos provides a clear and immediate record of the situation, which is essential for thorough incident documentation and subsequent investigation.

Proper documentation of an incident in a data closet should include taking photos of the impacted items. This provides visual evidence and helps in understanding the physical context of the incident, which is crucial for a thorough investigation. Backing up configuration files, recording connections, and creating network diagrams, while important, are not the primary means of documenting the physical aspects of an incident.

NEW QUESTION # 214

A security analyst needs to develop a solution to protect a high-value asset from an exploit like a recent zero-day attack. Which of the following best describes this risk management strategy?

- A. Transfer
- B. Avoid
- C. Accept
- D. Mitigate

Answer: D

Explanation:

Comprehensive Detailed Explanation: The best approach to address the risk of a zero-day attack is mitigation.

Here's an explanation of each option:

- * A. Avoid
 - * Explanation: Avoiding risk would mean discontinuing the use of the asset, which is not feasible for high-value assets that are essential to operations.
- * B. Transfer
 - * Explanation: Transferring risk would involve outsourcing or obtaining insurance, but this does not directly reduce the threat of a zero-day exploit.
- * C. Accept

* Explanation: Accepting the risk means acknowledging it without implementing countermeasures, which is not advisable for high-value assets at risk from sophisticated attacks.

* D. Mitigate

* Explanation: Mitigation involves implementing technical or administrative controls to reduce the impact of an attack. For zero-day exploits, this could include installing network-based protections, enhancing monitoring, or applying threat intelligence to detect or contain potential exploit attempts.

References:

* NIST SP 800-30: Guide for Conducting Risk Assessments.

* OWASP Risk Rating Methodology: Techniques for assessing and mitigating security risks.

NEW QUESTION # 215

A security analyst reviews the following Arachni scan results for a web application that stores PII data:

Which of the following should be remediated first?

- A. RFI
- B. Code injection
- C. SQL injection
- D. XSS

Answer: C

Explanation:

SQL injection should be remediated first, as it is a high-severity vulnerability that can allow an attacker to execute arbitrary SQL commands on the database server and access, modify, or delete sensitive data, including PII. According to the Arachni scan results, there are two instances of SQL injection and three instances of blind SQL injection (two timing attacks and one differential analysis) in the web application.

These vulnerabilities indicate that the web application does not properly validate or sanitize the user input before passing it to the database server, and thus exposes the database to malicious queries¹². SQL injection can have serious consequences for the confidentiality, integrity, and availability of the data and the system, and can also lead to further attacks, such as privilege escalation, data exfiltration, or remote code execution³⁴.

Therefore, SQL injection should be the highest priority for remediation, and the web application should implement input validation, parameterized queries, and least privilege principle to prevent SQL injection attacks⁵. References: Web application testing with Arachni | Infosec, How do I create a generated scan report for PDF in Arachni Web ..., Command line user interface Arachni/arachni Wiki GitHub, SQL Injection - OWASP, Blind SQL Injection - OWASP, SQL Injection Attack: What is it, and how to prevent it., SQL Injection Cheat Sheet & Tutorial | Veracode

NEW QUESTION # 216

A SOC analyst recommends adding a layer of defense for all endpoints that will better protect against external threats regardless of the device's operating system. Which of the following best meets this requirement?

- A. CASB
- B. SOAR
- C. EDR
- D. SIEM

Answer: C

Explanation:

EDR stands for Endpoint Detection and Response, which is a layer of defense that monitors endpoints for malicious activity and provides automated or manual response capabilities. EDR can protect against external threats regardless of the device's operating system, as it can detect and respond to attacks based on behavioral analysis and threat intelligence. EDR is also one of the tools that CompTIA CySA+ covers in its exam objectives. Official Reference:

<https://www.comptia.org/certifications/cybersecurity-analyst>

<https://www.comptia.org/blog/the-new-comptia-cybersecurity-analyst-your-questions-answered>

<https://resources.infosecinstitute.com/certification/cysa-plus-ia-levels/>

NEW QUESTION # 217

An organization is conducting a pilot deployment of an e-commerce application. The application's source code is not available. Which of the following strategies should an analyst recommend to evaluate the security of the software?

- A. Penetration testing
- B. Static testing
- C. Dynamic testing
- D. Vulnerability testing

Answer: A

Explanation:

Penetration testing is the best strategy to evaluate the security of the software without the source code.

Penetration testing is a type of security testing that simulates real-world attacks on the software to identify and exploit its vulnerabilities. Penetration testing can be performed on the software as a black box, meaning that the tester does not need to have access to the source code or the internal structure of the software. Penetration testing can help the analyst to assess the security posture of the software, the potential impact of the vulnerabilities, and the effectiveness of the existing security controls¹². Static testing, vulnerability testing, and dynamic testing are other types of security testing, but they usually require access to the source code or the internal structure of the software. Static testing is the analysis of the software code or design without executing it. Vulnerability testing is the identification and evaluation of the software weaknesses or flaws.

Dynamic testing is the analysis of the software code or design while executing it³⁴⁵. References: Penetration Testing - OWASP, What is a Penetration Test and How Does It Work?, Static Code Analysis | OWASP Foundation, Vulnerability Scanning Best Practices, Dynamic Testing - OWASP

NEW QUESTION # 218

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