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CompTIA CySA+ certification is ideal for cybersecurity analysts who want to advance their careers in this field. CompTIA Cybersecurity Analyst (CySA+) Certification Exam certification is recognized by many employers as a valuable qualification and can lead to better job opportunities and higher salaries. Additionally, passing the CompTIA CySA+ certification exam can also help

candidates to demonstrate their expertise in this field and increase their credibility among their peers and clients.

CompTIA Cybersecurity Analyst (CySA+) Certification Exam Sample Questions (Q298-Q303):

NEW QUESTION # 298

An analyst views the following log entries:

□ The organization has a partner vendor with hosts in the 216.122.5.x range. This partner vendor is required to have access to monthly reports and is the only external vendor with authorized access. The organization prioritizes incident investigation according to the following hierarchy:

- unauthorized data disclosure is more critical than denial of service attempts.

- which are more important than ensuring vendor data access.

Based on the log files and the organization's priorities, which of the following hosts warrants additional investigation?

- A. 121.19.30.221
- B. 134.17.188.5
- C. 216.122.5.5
- D. 202.180.1582

Answer: A

NEW QUESTION # 299

During a cybersecurity incident, one of the web servers at the perimeter network was affected by ransomware.

Which of the following actions should be performed immediately?

- A. Update the OS to latest version.
- B. Shut down the server.
- C. Reimage the server
- D. Quarantine the server

Answer: D

Explanation:

Quarantining the server is the best action to perform immediately, as it isolates the affected server from the rest of the network and prevents the ransomware from spreading to other systems or data. Quarantining the server also preserves the evidence of the ransomware attack, which can be useful for forensic analysis and law enforcement investigation. The other actions are not as urgent as quarantining the server, as they may not stop the ransomware infection, or they may destroy valuable evidence. Shutting down the server may not remove the ransomware, and it may trigger a data deletion mechanism by the ransomware. Reimaging the server may restore its functionality, but it will also erase any traces of the ransomware and make recovery of encrypted data impossible.

Updating the OS to the latest version may fix some vulnerabilities, but it will not remove the ransomware or decrypt the data. Official References:

<https://www.cisa.gov/stopransomware/ransomware-guide>

https://www.cisa.gov/sites/default/files/publications/Ransomware_Executive_One-Pager_and_Technical_D

<https://www.cisa.gov/stopransomware/ive-been-hit-ransomware>

NEW QUESTION # 300

Which of the following is the most likely reason for an organization to assign different internal departmental groups during the post-incident analysis and improvement process?

- A. To verify that the organization playbook was properly followed throughout the incident
- B. To expose flaws in the incident management process related to specific work areas
- C. To allow cross-training for staff who are not involved in the incident response process
- D. To ensure all staff members get exposure to the review process and can provide feedback

Answer: B

Explanation:

The post-incident review process helps an organization identify gaps in its response and security posture. Assigning different departmental groups ensures that flaws in specific work areas (such as IT, HR, or legal teams) are identified and addressed.

* Option B is incorrect because not all staff need exposure; the review focuses on relevant stakeholders.

* Option C is a part of the process, but the main goal is improvement, not just playbook verification.

* Option D (cross-training) is a benefit but not the main objective.

Thus, A is the best answer because it focuses on identifying flaws in specific areas of incident management.

NEW QUESTION # 301

While performing a dynamic analysis of a malicious file, a security analyst notices the memory address changes every time the process runs. Which of the following controls is most likely preventing the analyst from finding the proper memory address of the piece of malicious code?

- A. Data execution prevention
- B. Code obfuscation
- C. Stack canary
- **D. Address space layout randomization**

Answer: D

Explanation:

The correct answer is

A) Address space layout randomization.

Address space layout randomization (ASLR) is a security control that randomizes the memory address space of a process, making it harder for an attacker to exploit memory-based vulnerabilities, such as buffer overflows¹. ASLR can also prevent a security analyst from finding the proper memory address of a piece of malicious code, as the memory address changes every time the process runs². The other options are not the best explanations for why the memory address changes every time the process runs. Data execution prevention (B) is a security control that prevents code from being executed in certain memory regions, such as the stack or the heap³. Stack canary is a security technique that places a random value on the stack before a function's return address, to detect and prevent stack buffer overflows. Code obfuscation (D) is a technique that modifies the source code or binary of a program to make it more difficult to understand or reverse engineer. These techniques do not affect the memory address space of a process, but rather the execution or analysis of the code.

NEW QUESTION # 302

An organization was compromised, and the usernames and passwords of all employees were leaked online. Which of the following best describes the remediation that could reduce the impact of this situation?

- A. Password changes
- B. System hardening
- C. Password encryption
- **D. Multifactor authentication**

Answer: D

Explanation:

Explanation

Multifactor authentication (MFA) is a security method that requires users to provide two or more pieces of evidence to verify their identity, such as a password, a PIN, a fingerprint, or a one-time code. MFA can reduce the impact of a credential leak because even if the attackers have the usernames and passwords of the employees, they would still need another factor to access the organization's systems and resources. Password changes, system hardening, and password encryption are also good security practices, but they do not address the immediate threat of compromised credentials.

References: CompTIA CySA+ Certification Exam Objectives, [What Is Multifactor Authentication (MFA)?]

NEW QUESTION # 303

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