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227 Practice Test Questions

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CompTIA Cybersecurity Analyst (CySA+) Certification Exam Sample Questions (Q429-Q434):

NEW QUESTION # 429

The SOC received a threat intelligence notification indicating that an employee's credentials were found on the dark web. The user's web and log-in activities were reviewed for malicious or anomalous connections, data uploads/downloads, and exploits. A review of the controls confirmed multifactor authentication was enabled. Which of the following should be done first to mitigate impact to the business networks and assets?

- **A. Perform a forced password reset.**
- B. Lower the thresholds for SOC alerting of suspected malicious activity.
- C. Communicate the compromised credentials to the user.
- D. Review and ensure privileges assigned to the user's account reflect least privilege.
- E. Perform an ad hoc AV scan on the user's laptop.

Answer: A

Explanation:

The first and most urgent step to mitigate the impact of compromised credentials on the dark web is to perform a forced password reset for the affected user. This will prevent the cybercriminals from using the stolen credentials to access the company's network and systems. Multifactor authentication is a good security measure, but it is not foolproof and can be bypassed by sophisticated attackers. Therefore, changing the password as soon as possible is the best practice to reduce the risk of a data breach or other cyber attack¹²³ Reference: 1: How to monitor the dark web for compromised employee credentials 2: How to prevent corporate credentials ending up on the dark web 3: Data Breach Prevention: Identifying Leaked Credentials on the Dark Web

NEW QUESTION # 430

A company has decided to expose several systems to the internet. The systems are currently available internally only. A security analyst is using a subset of CVSS3.1 exploitability metrics to prioritize the vulnerabilities that would be the most exploitable when the systems are exposed to the internet. The systems and the vulnerabilities are shown below:

Which of the following systems should be prioritized for patching?

- A. grey
- B. brown
- **C. blane**
- D. sullivan

Answer: C

Explanation:

The system "blane" with the vulnerability name "snakedoctor" should be prioritized for patching as it has a network attack vector (AV:N), low attack complexity (AC:L), and high availability (A:H). These metrics indicate that it would be relatively easy to exploit this vulnerability over the internet, and the system is highly available. Reference: According to the CVSS v3.1 Specification Document, the exploitability metrics for CVSS are Attack Vector, Attack Complexity, Privileges Required, User Interaction, and Scope. These metrics measure how the vulnerability is accessed, the complexity of the attack, and the level of interaction and privileges required to exploit the vulnerability. The image shows a table with the values of these metrics for each system and vulnerability. Based on these values, the system "blane" has the highest exploitability score, as it has the most favorable conditions for an attacker. The other systems have either a lower attack vector, higher attack complexity, or lower availability, which make them less exploitable. Therefore, the system "blane" should be patched first.

NEW QUESTION # 431

An analyst is reviewing a vulnerability report for a server environment with the following entries:

Vulnerability	Severity	CVSS v3	Host IP	Crown jewel	Exploit available
EOL/Obsolete Log4j v1.x	5	-	54.73.224.15	No	No
EOL/Obsolete Log4j v1.x	5	-	54.73.225.17	Yes	No
EOL/Obsolete Log4j v1.x	5	-	10.101.27.98	Yes	No
Microsoft Windows Security Update	4	8.2	10.100.10.52	No	Yes
Microsoft Windows Security Update	4	8.2	54.74.110.26	No	Yes
Microsoft Windows Security Update	4	8.2	54.74.110.228	Yes	Yes
Oracle Java Critical Patch	3	6.9	10.101.25.65	Yes	No
Oracle Java Critical Patch	3	6.9	54.73.225.17	Yes	No
Oracle Java Critical Patch	3	6.9	10.101.27.98	Yes	No

Which of the following systems should be prioritized for patching first?

- A. 54.73.225.17
- B. 54.74.110.228
- C. 10.101.27.98
- D. 54.74.110.26

Answer: B

NEW QUESTION # 432

An incident responder was able to recover a binary file through the network traffic. The binary file was also found in some machines with anomalous behavior. Which of the following processes most likely can be performed to understand the purpose of the binary file?

- A. Machine isolation
- B. File debugging
- C. Reverse engineering
- D. Traffic analysis

Answer: C

Explanation:

Reverse engineering is the process of analyzing a binary file to understand its structure, functionality, and behavior. It can help to identify the purpose of the binary file, such as whether it is a malicious program, a legitimate application, or a library. Reverse engineering can involve various techniques, such as disassembling, decompiling, debugging, or extracting strings or resources from the binary file¹²³. Reverse engineering can also help to find vulnerabilities, backdoors, or hidden features in the binary file

NEW QUESTION # 433

A company is in the process of implementing a vulnerability management program. Which of the following scanning methods should be implemented to minimize the risk of OT/ICS devices malfunctioning due to the vulnerability identification process?

- A. Non-credentialed scanning
- B. Credentialed scanning
- C. Agent-based scanning
- D. Passive scanning

Answer: D

Explanation:

Passive scanning is a method of vulnerability identification that does not send any packets or probes to the target devices, but rather observes and analyzes the network traffic passively. Passive scanning can minimize the risk of OT/ICS devices malfunctioning due to the vulnerability identification process, as it does not interfere with the normal operation of the devices or cause any network disruption. Passive scanning can also detect vulnerabilities that active scanning may miss, such as misconfigured devices, rogue devices or unauthorized traffic. Official Reference:

<https://partners.comptia.org/docs/default-source/resources/comptia-cysa-cs0-002-exam-objectives>

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

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NEW QUESTION # 434

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