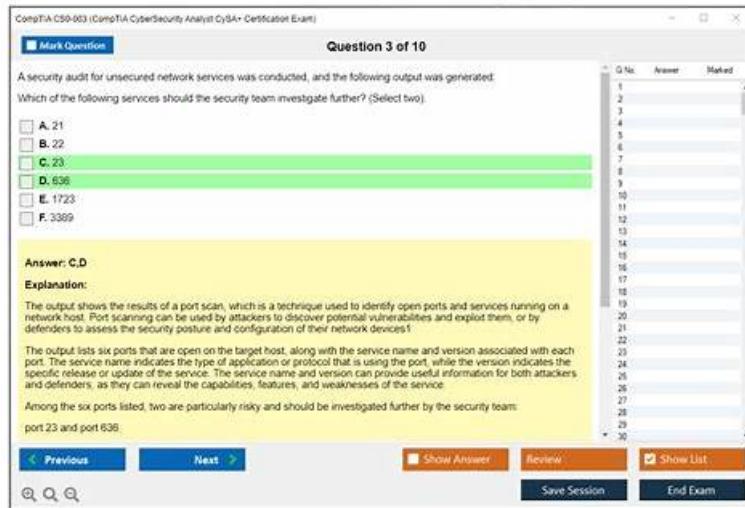


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CompTIA Cybersecurity Analyst (CySA+) Certification Exam Sample Questions (Q165-Q170):

NEW QUESTION # 165

A security analyst performs a vulnerability scan. Based on the metrics from the scan results, the analyst must prioritize which hosts to patch. The analyst runs the tool and receives the following output:

Which of the following hosts should be patched first, based on the metrics?

- A. host02
- B. host01
- C. host03
- D. host04

Answer: C

Explanation:

Host03 should be patched first, based on the metrics, as it has the highest risk score and the highest number of critical vulnerabilities. The risk score is calculated by multiplying the CVSS score by the exposure factor, which is the percentage of systems that are vulnerable to the exploit. Host03 has a risk score of $10 \times 0.9 = 9$, which is higher than any other host. Host03 also has 5 critical vulnerabilities, which are the most severe and urgent to fix, as they can allow remote code execution, privilege escalation, or data loss. The other hosts have lower risk scores and lower numbers of critical vulnerabilities, so they can be patched later.

NEW QUESTION # 166

A security administrator has found indications of dictionary attacks against the company's external-facing portal. Which of the following should be implemented to best mitigate the password attacks?

- A. Multifactor authentication
- B. **Lockout policy**
- C. Web application firewall
- D. Password complexity

Answer: B

Explanation:

Dictionary attacks involve an attacker attempting to guess passwords by using a list of common passwords. Implementing a lockout policy is effective because it limits the number of login attempts, thereby hindering the attacker's ability to repeatedly attempt different passwords. Lockout policies are standard in cybersecurity practices to prevent brute-force and dictionary attacks by temporarily disabling an account after a certain number of failed login attempts. According to CompTIA Security+ standards, password complexity (option B) and multifactor authentication (option A) are helpful but are not as immediately effective in directly preventing repeated attempts as a lockout policy.

NEW QUESTION # 167

A security analyst discovers the company's website is vulnerable to cross-site scripting. Which of the following solutions will best remedy the vulnerability?

- A. Disabled JavaScript filtering
- B. Client-side input encoding
- C. Prepared statements
- D. **Server-side input validation**

Answer: D

Explanation:

Server-side input validation is a solution that can prevent cross-site scripting (XSS) vulnerabilities by checking and filtering any user input that is sent to the server before rendering it on a web page. Server-side input validation can help to ensure that the user input conforms to the expected format, length and type, and does not contain any malicious characters or syntax that may alter the logic or behavior of the web page. Server-side input validation can also reject or sanitize any input that does not meet the validation criteria .

NEW QUESTION # 168

An incident response team is working with law enforcement to investigate an active web server compromise.

The decision has been made to keep the server running and to implement compensating controls for a period of time. The web service must be accessible from the internet via the reverse proxy and must connect to a database server. Which of the following compensating controls will help contain the adversary while meeting the other requirements? (Select two).

- A. Deploy EDR on the web server and the database server to reduce the adversaries capabilities.
- B. **use micro segmentation to restrict connectivity to/from the web and database servers.**
- C. Drop the tables on the database server to prevent data exfiltration.
- D. Comment out the HTTP account in the / etc/passwd file of the web server
- E. Move the database from the database server to the web server.
- F. Stop the httpd service on the web server so that the adversary can not use web exploits

Answer: A,B

Explanation:

Deploying EDR on the web server and the database server to reduce the adversaries capabilities and using micro segmentation to restrict connectivity to/from the web and database servers are two compensating controls that will help contain the adversary while meeting the other requirements. A compensating control is a security measure that is implemented to mitigate the risk of a vulnerability or an attack when the primary control is not feasible or effective. EDR stands for Endpoint Detection and Response, which is a tool that monitors endpoints for malicious activity and provides automated or manual response capabilities. EDR can help contain the adversary by detecting and blocking their actions, such as data exfiltration, lateral movement, privilege escalation, or command execution. Micro segmentation is a technique that divides a network into smaller segments based on policies and rules, and applies granular access controls to each segment. Micro segmentation can help contain the adversary by isolating the web and database servers from other parts of the network, and limiting the traffic that can flow between them. Official References:

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

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

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

NEW QUESTION # 169

A vulnerability scan of a web server that is exposed to the internet was recently completed. A security analyst is reviewing the resulting vector strings:

□ Which of the following vulnerabilities should be patched first?

- A. Vulnerability 2
- **B. Vulnerability 1**
- C. Vulnerability 3
- D. Vulnerability 4

Answer: B

NEW QUESTION # 170

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