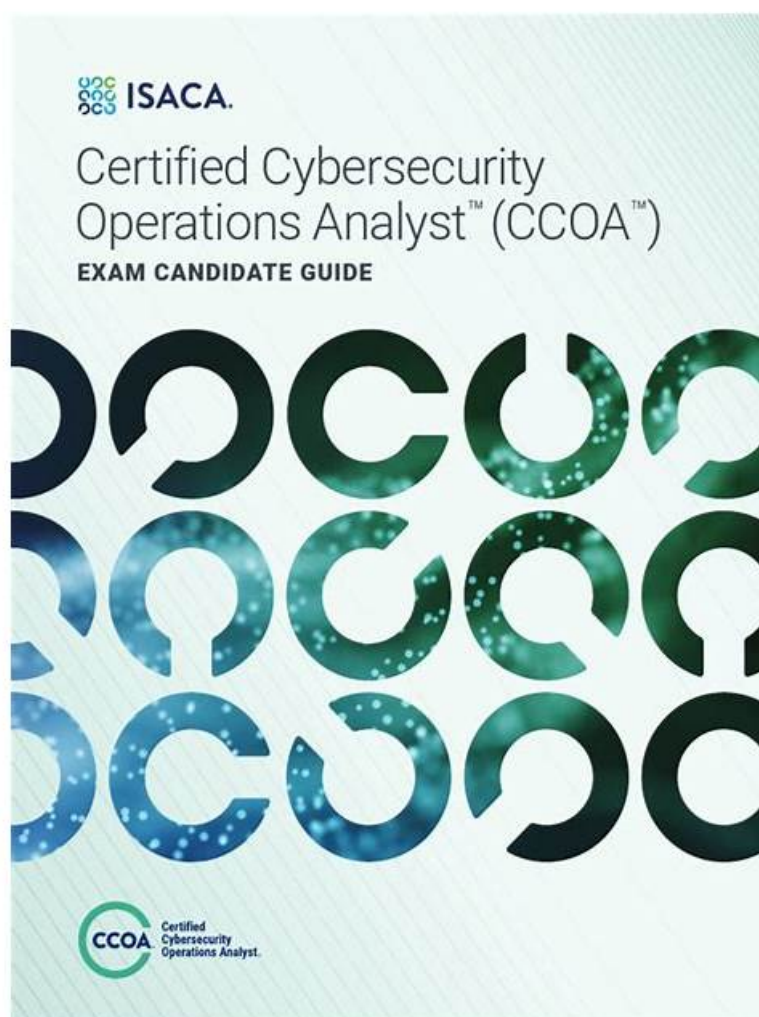


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ISACA Certified Cybersecurity Operations Analyst Sample Questions (Q30-Q35):

NEW QUESTION # 30

When identifying vulnerabilities, which of the following should a cybersecurity analyst determine FIRST?

- A. The vulnerability categories identifiable by the scanning tool
- **B. The vulnerability categories possible for the tested asset types**
- C. The number of tested asset types included in the assessment
- D. The number of vulnerabilities identifiable by the scanning tool

Answer: B

Explanation:

When identifying vulnerabilities, the first step for a cybersecurity analyst is to determine the vulnerability categories possible for the tested asset types because:

* Asset-Specific Vulnerabilities: Different asset types (e.g., servers, workstations, IoT devices) are susceptible to different vulnerabilities.

* Targeted Scanning: Knowing the asset type helps in choosing the correct vulnerability scanning tools and configurations.

* Accuracy in Assessment: This ensures that the scan is tailored to the specific vulnerabilities associated with those assets.

* Efficiency: Reduces false positives and negatives by focusing on relevant vulnerability categories.

Other options analysis:

* A. Number of vulnerabilities identifiable: This is secondary; understanding relevant categories comes first.

* B. Number of tested asset types: Knowing asset types is useful, but identifying their specific vulnerabilities is more crucial.

* D. Vulnerability categories identifiable by the tool: Tool capabilities matter, but only after determining what needs to be tested.

CCOA Official Review Manual, 1st Edition References:

* Chapter 6: Vulnerability Management: Discusses the importance of asset-specific vulnerability identification.

* Chapter 8: Threat and Vulnerability Assessment: Highlights the relevance of asset categorization.

NEW QUESTION # 31

Which of the following BEST enables a cybersecurity analyst to influence the acceptance of effective security controls across an organization?

- A. Critical thinking
- **B. Communication skills**
- C. Knowledge of cybersecurity standards
- D. Contingency planning expertise

Answer: B

Explanation:

To effectively influence the acceptance of security controls, a cybersecurity analyst needs strong communication skills:

* Persuasion: Clearly conveying the importance of security measures to stakeholders.

* Stakeholder Engagement: Building consensus by explaining technical concepts in understandable terms.

* Education and Awareness: Encouraging best practices through effective communication.

* Bridging Gaps: Aligning security objectives with business goals through collaborative discussions.

Incorrect Options:

* A. Contingency planning expertise: Important but less relevant to influencing acceptance.

* B. Knowledge of cybersecurity standards: Essential but not enough to drive acceptance.

* D. Critical thinking: Helps analyze risks but does not directly aid in influencing organizational buy-in.

Exact Extract from CCOA Official Review Manual, 1st Edition:

Refer to Chapter 9, Section "Influencing Security Culture," Subsection "Communication Strategies" - Effective communication is crucial for gaining organizational support for security initiatives.

NEW QUESTION # 32

Which of the following is the MOST important reason to limit the number of users with local admin privileges on endpoints?

- A. local admin accounts require more administrative work in order to manage them properly.
- B. Local admin users might make unauthorized changes.
- C. Local admin users might Install unapproved software.
- D. Local admin accounts have elevated privileges that can be exploited by threat actors.

Answer: D

Explanation:

The primary reason to limit local admin privileges on endpoints is that local admin accounts have elevated privileges which, if compromised, can be exploited to:

- * Escalate Privileges: Attackers can move laterally or gain deeper access.
- * Install Malware: Direct access to system settings and software installation.
- * Modify Security Configurations: Disable antivirus or firewalls.
- * Persistence: Create backdoor accounts for future access.

Incorrect Options:

- * A. Installing unapproved software: A consequence, but not the most critical reason.
- * C. Increased administrative work: Not a security issue.
- * D. Making unauthorized changes: Similar to A, but less significant than privilege exploitation.

Exact Extract from CCOA Official Review Manual, 1st Edition:

Refer to Chapter 4, Section "Privilege Management," Subsection "Risks of Excessive Privileges" - Limiting admin rights reduces attack surface and potential exploitation.

NEW QUESTION # 33

Your enterprise has received an alert bulletin from national authorities that the network has been compromised at approximately 11:00 PM (Absolute) on August 19, 2024. The alert is located in the alerts folder with filename, alert_33.pdf.

What is the name of the suspected malicious file captured by keyword process.executable at 11:04 PM?

Answer:

Explanation:

See the solution in Explanation.

Explanation:

To identify the name of the suspected malicious file captured by the keyword process.executable at 11:04 PM on August 19, 2024, follow these detailed steps:

Step 1: Access the Alert Bulletin

- * Locate the alert file:
- * Access the alerts folder on your system.
- * Look for the file named:
- * Open the file:
- * Use a PDF reader to examine the contents.

Step 2: Understand the Alert Context

- * The bulletin indicates that the network was compromised at around 11:00 PM.
- * You need to identify the malicious files specifically captured at 11:04 PM.

Step 3: Access System Logs

- * Use your SIEM or log management system to examine recent logs.
- * Filter the logs to narrow down the events:
- * Time Frame: August 19, 2024, from 11:00 PM to 11:10 PM.
- * Keyword: process.executable.

Example SIEM Query:

```
index=system_logs
| search "process.executable"
| where _time between "2024-08-19T23:04:00" and "2024-08-19T23:05:00"
| table _time, process_name, executable_path, hash
```

Step 4: Analyze Log Entries

- * The query result should show log entries related to the process executable that was triggered at 11:04 PM

.

- * Focus on entries that:
- * Appear unusual or suspicious.
- * Match known indicators from the alert bulletin (alert_33.pdf).

Example Log Output:

_time process_name executable_path hash
2024-08-19T23:04 evil.exe C:\Users\Public\evil.exe 4d5e6f...

Step 5: Cross-Reference with Known Threats

- * Check the hash of the executable file against:
 - * VirusTotal or internal threat intelligence databases.
 - * Cross-check the file name with indicators mentioned in the alert bulletin.

Step 6: Final Confirmation

- * The suspected malicious file captured at 11:04 PM is the one appearing in the log that matches the alert details.

The name of the suspected malicious file captured by keyword process.executable at 11:04 PM is: evil.exe
Step 7: Take Immediate Remediation Actions

- * Isolate the affected host to prevent further damage.
- * Quarantine the malicious file for analysis.
- * Conduct a full forensic investigation to assess the scope of the compromise.
- * Update threat signatures and indicators across the environment.

Step 8: Report and Document

- * Document the incident, including:
 - * Time of detection: 11:04 PM on August 19, 2024.
 - * Malicious file name: evil.exe.
 - * Location: C:\Users\Public\evil.exe.
- * Generate an incident report for further investigation.

NEW QUESTION # 34

In which phase of the Cyber Kill Chain" would a red team run a network and port scan with Nmap?

- A. Reconnaissance
- B. Delivery
- C. Exploitation
- D. Weaponization

Answer: A

Explanation:

During the Reconnaissance phase of the Cyber Kill Chain, attackers gather information about the target system:

- * Purpose: Identify network topology, open ports, services, and potential vulnerabilities.
- * Tools: Nmap is commonly used for network and port scanning during this phase.
- * Data Collection: Results provide insights into exploitable entry points or weak configurations.
- * Red Team Activities: Typically include passive and active scanning to understand the network landscape.

Incorrect Options:

- * A. Exploitation: Occurs after vulnerabilities are identified.
- * B. Delivery: The stage where the attacker delivers a payload to the target.
- * D. Weaponization: Involves crafting malicious payloads, not scanning the network.

Exact Extract from CCOA Official Review Manual, 1st Edition:

Refer to Chapter 8, Section "Cyber Kill Chain," Subsection "Reconnaissance Phase" - Nmap is commonly used to identify potential vulnerabilities during reconnaissance.

NEW QUESTION # 35

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