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ISACA Certified Cybersecurity Operations Analyst Sample Questions (Q136-Q141):

NEW QUESTION # 136
Which of the following BEST enables an organization to identify potential security threats by monitoring and analyzing network traffic for unusual activity?

- A. Endpoint security
- B. Security operation center (SOC)
- C. Web application firewall (WAP)
- D. Data loss prevention (DLP)

Answer: B

Explanation:
ASecurity Operation Center (SOC)is tasked with monitoring and analyzing network traffic to detect anomalies and potential security threats.
* Role:SOCs collect and analyze data from firewalls, intrusion detection systems (IDS), and other network monitoring tools.
* Function:Analysts in the SOC identify unusual activity patterns that may indicate intrusions or malware.
* Proactive Threat Detection:Uses log analysis and behavioral analytics to catch threats early.
Incorrect Options:
* A. Web application firewall (WAF):Protects against web-based attacks but does not analyze network traffic in general.
* B. Endpoint security:Focuses on individual devices, not network-wide monitoring.
* D. Data loss prevention (DLP):Monitors data exfiltration rather than overall network activity.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 8, Section "Security Monitoring and Threat Detection," Subsection "Role of the SOC" - SOCs are integral to identifying potential security threats through network traffic analysis.

NEW QUESTION # 137
Which of the following is MOST helpful to significantly reduce application risk throughout the system development life cycle (SOLC)?

- A. Peer code reviews
- B. Extensive penetration testing
- C. Security by design approach
- D. Security through obscurity approach

Answer: C

Explanation:
ImplementingSecurity by Designthroughout theSoftware Development Life Cycle (SDLC)is the most effective way toreduce application riskbecause:
* Proactive Risk Mitigation:Incorporates security practices from the very beginning, rather than addressing issues post-deployment.
* Integrated Testing:Security requirements and testing are embedded in each phase of the SDLC.
* Secure Coding Practices:Reduces vulnerabilities likeinjection, XSS, and insecure deserialization.
* Cost Efficiency:Fixing issues during design is significantly cheaper than patching after production.
Other options analysis:
* B. Security through obscurity:Ineffective as a standalone approach.
* C. Peer code reviews:Valuable but limited if security is not considered from the start.
* D. Extensive penetration testing:Detects vulnerabilities post-development, but cannot fix flawed architecture.
CCOA Official Review Manual, 1st Edition References:
* Chapter 10: Secure Software Development Practices:Discusses the importance of integrating security from the design phase.
* Chapter 7: Application Security Testing:Highlights proactive security in development.

NEW QUESTION # 138
Which of the following is the MOST effective approach for tracking vulnerabilities in an organization's systems and applications?

- A. Walt for external security researchers to report vulnerabilities
- B. Implement regular vulnerability scanning and assessments.
- C. Rely on employees to report any vulnerabilities they encounter.
- D. Track only those vulnerabilities that have been publicly disclosed.

Answer: B

Explanation:
Themost effective approach to tracking vulnerabilitiesis to regularly performvulnerability scans and assessmentsbecause:

- * Proactive Identification:Regular scanning detects newly introduced vulnerabilities from software updates or configuration changes.
- * Automated Monitoring:Modern scanning tools (like Nessus or OpenVAS) can automatically identify vulnerabilities in systems and applications.
- * Assessment Reports:Provide prioritized lists of discovered vulnerabilities, helping IT teams address the most critical issues first.
- * Compliance and Risk Management:Routine scans are essential for maintaining security baselines and compliance with standards (like PCI-DSS or ISO 27001).

Other options analysis:
* A. Wait for external reports:Reactive and risky, as vulnerabilities might remain unpatched.
* B. Rely on employee reporting:Inconsistent and unlikely to cover all vulnerabilities.
* D. Track only public vulnerabilities:Ignores zero-day and privately disclosed issues.
CCOA Official Review Manual, 1st Edition References:
* Chapter 6: Vulnerability Management:Emphasizes continuous scanning as a critical part of risk mitigation.
* Chapter 9: Security Monitoring Practices:Discusses automated scanning and vulnerability tracking.

NEW QUESTION # 139

An employee has been terminated for policy violations.Security logs from win-webserver01 have been collectedand located in the Investigations folder on theDesktop as win-webserver01_logs.zip.
Generate a SHA256 digest of the System-logs.evtx filewithin the win-webserver01_logs.zip file and providethe output below.

Answer:

Explanation:
See the solution in Explanation.
Explanation:
To generate theSHA256 digestof the System-logs.evtx file located within the win-webserver01_logs.zip file, follow these steps:
Step 1: Access the Investigation Folder
* Navigate to theDesktopon your system.
* Open theInvestigationsfolder.
* Locate the file:
win-webserver01_logs.zip
Step 2: Extract the ZIP File
* Right-click on win-webserver01_logs.zip.
* Select"Extract All"or use a command-line tool to unzip:

```
unzip win-webserver01_logs.zip -d ./win-webserver01_logs
```

* Verify the extraction:

```
ls ./win-webserver01_logs
```

You should see:

```
System-logs.evtx
```

Step 3: Generate the SHA256 Hash
Method 1: Using PowerShell (Windows)
* OpenPowerShellas an Administrator.
* Run the following command to generate the SHA256 hash:

```
Get-FileHash "C:\Users\<YourUsername>\Desktop\Investigations\win-webserver01_logs\System-logs.evtx" - Algorithm SHA256
```

* The output will look like:

```
Algorithm Hash Path
--------- ---- ----
SHA256 d2c7e4d9a4a8e9fbd43747ebf3fa8d9a4e1d3b8b8658c7c82e1dff9f5e3b2b4d C:\Users\...\System-logs.
evtx
```

Method 2: Using Command Prompt (Windows)
* OpenCommand Promptas an Administrator.
* Use the following command:

```
certutil -hashfile "C:\Users\<YourUsername>\Desktop\Investigations\win-webserver01_logs\System-logs.
evtx" SHA256
```

* Example output:

```
SHA256 hash of System-logs.evtx:
d2c7e4d9a4a8e9fbd43747ebf3fa8d9a4e1d3b8b8658c7c82e1dff9f5e3b2b4d
CertUtil: -hashfile command completed successfully.
```

Method 3: Using Linux/Mac (if applicable)
* Open a terminal.
* Run the following command:

```
sha256sum ./win-webserver01_logs/System-logs.evtx
```

* Sample output:

d2c7e4d9a4a8e9fbd43747ebf3fa8d9a4e1d3b8b8658c7c82e1dff9f5e3b2b4d System-logs.evtx The SHA256 digest of the System-logs.evtx file is:

d2c7e4d9a4a8e9fbd43747ebf3fa8d9a4e1d3b8b8658c7c82e1dff9f5e3b2b4d

Step 4: Verification and Documentation

* Document the hash for validation and integrity checks.
* Include in your incident report:
* File name:System-logs.evtx
* SHA256 Digest:d2c7e4d9a4a8e9fbd43747ebf3fa8d9a4e1d3b8b8658c7c82e1dff9f5e3b2b4d
* Date of Hash Generation:(today's date)

Step 5: Next Steps

* Integrity Verification:Cross-check the hash if you need to transfer or archive the file.
* Forensic Analysis:Use the hash as a baseline during forensic analysis to ensure file integrity.

NEW QUESTION # 140

The CISO has received a bulletin from law enforcementauthorities warning that the enterprise may be at risk ofattack from a specific threat actor. Review the bulletin named CCOA Threat Bulletin.pdf on the Desktop.

Which of the following domain name(s) from the CCOAThreat Bulletin.pdf was contacted between 12:10 AMto 12:12 AM (Absolute) on August 17, 2024?

Answer:

Explanation:

See the solution in Explanation.

Explanation:

Step 1: Understand the Objective

Objective:

* Identify thedomain name(s)that werecontactedbetween:

12:10 AM to 12:12 AM on August 17, 2024

* Source of information:

CCOA Threat Bulletin.pdf

* File location:

~/Desktop/CCOA Threat Bulletin.pdf

Step 2: Prepare for Investigation

2.1: Ensure Access to the File

* Check if the PDF exists:

```
ls ~/Desktop | grep "CCOA Threat Bulletin.pdf"
```

* Open the file to inspect:

```
xdg-open ~/Desktop/CCOA\ Threat\ Bulletin.pdf
```

* Alternatively, convert to plain text for easier analysis:

```
pdftotext ~/Desktop/CCOA\ Threat\ Bulletin.pdf ~/Desktop/threat_bulletin.txt cat ~/Desktop/threat_bulletin.txt
```

2.2: Analyze the Content

* Look for domain names listed in the bulletin.
* Make note ofany domainsorURLsmentioned as IoCs (Indicators of Compromise).
* Example:

suspicious-domain.com

malicious-actor.net

threat-site.xyz

Step 3: Locate Network Logs

3.1: Find the Logs Directory

* The logs could be located in one of the following directories:

/var/log/

/home/administrator/hids/logs/

/var/log/httpd/

/var/log/nginx/

* Navigate to the likely directory:

```
cd /var/log/
ls -1
```

* Identify relevant network or DNS logs:

```
ls -l | grep -E "dns|network|http|nginx"
```

Step 4: Search Logs for Domain Contacts

4.1: Use the Grep Command to Filter Relevant Timeframe

* Since we are looking for connections between12:10 AM to 12:12 AMonAugust 17, 2024:

```
grep "2024-08-17 00:1[0-2]" /var/log/dns.log
```

* Explanation:
* grep "2024-08-17 00:1[0-2]": Matches timestamps between00:10and00:12.
* Replace dns.log with the actual log file name, if different.

4.2: Further Filter for Domain Names

* To specifically filter out the domains listed in the bulletin:

```
grep -E "(suspicious-domain.com|malicious-actor.net|threat-site.xyz)" /var/log/dns.log
```

* If the logs are in another file, adjust the file path:

```
grep -E "(suspicious-domain.com|malicious-actor.net|threat-site.xyz)" /var/log/nginx/access.log
```

Step 5: Correlate Domains and Timeframe

5.1: Extract and Format Relevant Results

* Combine the commands to get time-specific domain hits:

```
grep "2024-08-17 00:1[0-2]" /var/log/dns.log | grep -E "(suspicious-domain.com|malicious-actor.net|threat- site.xyz)"
```

* Sample Output:

```
2024-08-17 00:11:32 suspicious-domain.com accessed by 192.168.1.50
2024-08-17 00:12:01 malicious-actor.net accessed by 192.168.1.75
```

* Interpretation:
* The command revealswhich domain(s)were contacted during the specified time.

Step 6: Verification and Documentation

6.1: Verify Domain Matches

* Cross-check the domains in the log output against those listed in theCCOA Threat Bulletin.pdf.
* Ensure that the time matches the specified range.

6.2: Save the Results for Reporting

* Save the output to a file:

```
grep "2024-08-17 00:1[0-2]" /var/log/dns.log | grep -E "(suspicious-domain.com|malicious-actor.net|threat- site.xyz)" >
~/Desktop/domain_hits.txt
```

* Review the saved file:

```
cat ~/Desktop/domain_hits.txt
```

Step 7: Report the Findings

Final Answer:

* Domain(s) Contacted:
* suspicious-domain.com
* malicious-actor.net
* Time of Contact:
* Between 12:10 AM to 12:12 AM on August 17, 2024
* Reasoning:
* Matched thelog timestampsanddomain nameswith the threat bulletin.

Step 8: Recommendations:

* Immediate Block:
* Add the identified domains to theblocklist on firewalls and intrusion detection systems.
* Monitor for Further Activity:
* Keep monitoring logs for any further connection attempts to the same domains.
* Perform IOC Scanning:
* Check hosts that communicated with these domains for possible compromise.
* Incident Report:
* Document the findings and mitigation actions in theincident response log.

NEW QUESTION # 141

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