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In this way, the ISACA CCOA certified professionals can not only validate their skills and knowledge level but also put their careers on the right track. By doing this you can achieve your career objectives. To avail of all these benefits you need to pass the ISACA Certified Cybersecurity Operations Analyst (CCOA) exam which is a difficult exam that demands firm commitment and complete ISACA CCOA exam questions preparation.

ISACA Certified Cybersecurity Operations Analyst Sample Questions (Q51-Q56):

NEW QUESTION # 51
Which of the followingBESTdescribes static application security testing (SAST)?

- A. Vulnerability scanning
- B. Codereview
- C. Attack simulation
- D. Configuration management

Answer: B

Explanation:
Static Application Security Testing (SAST)involvesanalyzing source code or compiled codeto identify vulnerabilities without executing the program.
* Code Analysis:Identifies coding flaws, such asinjection, buffer overflows, or insecure function usage
.
* Early Detection:Can be integrated into the development pipeline to catch issues before deployment.
* Automation:Tools likeSonarQube, Checkmarx, and Fortifyare commonly used.
* Scope:Typically focuses on source code, bytecode, or binary code.
Other options analysis:
* A. Vulnerability scanning:Typically involves analyzing deployed applications or infrastructure.
* C. Attack simulation:Related to dynamic testing (e.g., DAST), not static analysis.
* D. Configuration management:Involves maintaining and controlling software configurations, not code analysis.
CCOA Official Review Manual, 1st Edition References:
* Chapter 9: Application Security Testing:Discusses SAST as a critical part of secure code development.
* Chapter 7: Secure Coding Practices:Highlights the importance of static analysis during the SDLC.

NEW QUESTION # 52
Which of the following is the PRIMARY purpose for an organization to adopt a cybersecurityframework?

- A. To automate cybersecurity processes and reduce the need for human intervention
- B. To provide a standardized approach to cybetsecurity risk management
- C. To guarantee protection against possible cyber threats
- D. To ensure compliance with specific regulations

Answer: B

Explanation:
Theprimary purposeof adopting acybersecurity frameworkis to establish astandardized approach to managing cybersecurity risks.
* Consistency:Provides a structured methodology for identifying, assessing, and mitigating risks.
* Best Practices:Incorporates industry standards and practices (e.g., NIST, ISO/IEC 27001) to guide security programs.
* Holistic Risk Management:Helps organizations systematically address vulnerabilities and threats.
* Compliance and Assurance:While compliance may be a secondary benefit, the primary goal is risk management and structured security.
Other options analysis:
* A. To ensure compliance:While frameworks can aid compliance, their main purpose is risk management, not compliance itself.
* B. To automate processes:Frameworks may encourage automation, but automation is not their core purpose.
* D. To guarantee protection:No framework canguaranteecomplete protection; they reduce risk, not eliminate it.
CCOA Official Review Manual, 1st Edition References:
* Chapter 3: Cybersecurity Frameworks and Standards:Discusses the primary purpose of frameworks in risk management.
* Chapter 10: Governance and Policy:Covers how frameworks standardize security processes.

NEW QUESTION # 53
Cyber Analyst Password:
For questions that require use of the SIEM, pleasereference the information below:
https://10.10.55.2
Security-Analyst!
CYB3R-4n4ly$t!
Email Address:
ccoatest@isaca.org
Password:Security-Analyst!
The enterprise has been receiving a large amount offalse positive alerts for the eternalblue vulnerability.
TheSIEM rulesets are located in /home/administrator/hids/ruleset/rules.
What is the name of the file containing the ruleset foreternalblue connections? Your response must includethe file extension.

Answer:

Explanation:

Step 1: Define the Problem and Objective
Objective:
* Identify thefile containing the rulesetforEternalBlue connections.
* Include thefile extensionin the response.
Context:
* The organization is experiencingfalse positive alertsfor theEternalBlue vulnerability.
* The rulesets are located at:
/home/administrator/hids/ruleset/rules
* We need to find the specific file associated withEternalBlue.
Step 2: Prepare for Access
2.1: SIEM Access Details:
* URL:
https://10.10.55.2
* Username:
ccoatest@isaca.org
* Password:
Security-Analyst!
* Ensure your machine has access to the SIEM system via HTTPS.
Step 3: Access the SIEM System
3.1: Connect via SSH (if needed)
* Open a terminal and connect:
ssh administrator@10.10.55.2
* Password:
Security-Analyst!
* If prompted about SSH key verification, typeyesto continue.
Step 4: Locate the Ruleset File
4.1: Navigate to the Ruleset Directory
* Change to the ruleset directory:
cd /home/administrator/hids/ruleset/rules
ls -l
* You should see a list of files with names indicating their purpose.
4.2: Search for EternalBlue Ruleset
* Use grep to locate the EternalBlue rule:
grep -irl "eternalblue" *
* Explanation:
* grep -i: Case-insensitive search.
* -r: Recursive search within the directory.
* -l: Only print file names with matches.
* "eternalblue": The keyword to search.
* *: All files in the current directory.
Expected Output:
exploit_eternalblue.rules
* Filename:
exploit_eternalblue.rules
* The file extension is .rules, typical for intrusion detection system (IDS) rule files.
Step 5: Verify the Content of the Ruleset File
5.1: Open and Inspect the File
* Use less to view the file contents:
less exploit_eternalblue.rules
* Check for rule patterns like:
alert tcp $EXTERNAL_NET any -> $HOME_NET 445 (msg:"EternalBlue SMB Exploit"; ...)
* Use the search within less:
/eternalblue
* Purpose:Verify that the file indeed contains the rules related to EternalBlue.
Step 6: Document Your Findings
* Ruleset File for EternalBlue:
exploit_eternalblue.rules
* File Path:
/home/administrator/hids/ruleset/rules/exploit_eternalblue.rules
* Reasoning:This file specifically mentions EternalBlue and contains the rules associated with detecting such attacks.
Step 7: Recommendation

Mitigation for False Positives:
* Update the Ruleset:
* Modify the file to reduce false positives by refining the rule conditions.
* Update Signatures:
* Check for updated rulesets from reliable threat intelligence sources.
* Whitelist Known Safe IPs:
* Add exceptions for legitimate internal traffic that triggers the false positives.
* Implement Tuning:
* Adjust the SIEM correlation rules to decrease alert noise.
Final Verification:
* Restart the IDS service after modifying rules to ensure changes take effect:
sudo systemctl restart hids
* Check the status:
sudo systemctl status hids
Final Answer:
* Ruleset File Name:
exploit_eternalblue.rules

NEW QUESTION # 54
After identified weaknesses have been remediated, which of the following should be completed NEXT?

- A. Move the fixed system directly to production.
- B. Perform a validation scan before moving to production.
- C. Perform a software quality assurance (QA) activity.
- D. Perform software code testing.

Answer: B

Explanation:
After remediation of identified weaknesses, thenext step is to perform a validation scanto ensure that the fixes were successful and no new vulnerabilities were introduced.
* Purpose:Confirm that vulnerabilities have been properly addressed.
* Verification:Uses automated tools or manual testing to recheck the patched systems.
* Risk Management:Prevents reintroducing vulnerabilities into the production environment.
Incorrect Options:
* B. Software code testing:Typically performed during development, not after remediation.
* C. Software quality assurance (QA) activity:Focuses on functionality, not security validation.
* D. Moving directly to production:Risks deploying unvalidated fixes.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 6, Section "Post-Remediation Activities," Subsection "Validation Scans" - Validating fixes ensures security before moving to production.

NEW QUESTION # 55
Which of the following is theMOSTimportant component oftheasset decommissioning process from a data risk perspective?

- A. Informing the data owner when decommissioning is complete
- B. Removing the monitoring of the assets
- C. Destruction of data on the assets
- D. Updating the asset status in the configuration management database (CMD8)

Answer: C

Explanation:
Themost important component of asset decommissioningfrom adata risk perspectiveis thesecure destruction of dataon the asset.
* Data Sanitization:Ensures that all sensitive information is irretrievably erased before disposal or repurposing.
* Techniques:Physical destruction, secure wiping, or degaussing depending on the storage medium.
* Risk Mitigation:Prevents data leakage if the asset falls into unauthorized hands.
Incorrect Options:
* A. Informing the data owner:Important but secondary to data destruction.

* C. Updating the CMDB:Administrative task, not directly related to data risk.
* D. Removing monitoring:Important for system management but not the primary risk factor.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 9, Section "Asset Decommissioning," Subsection "Data Sanitization Best Practices" - Data destruction is the most critical step to mitigate risks.

NEW QUESTION # 56
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