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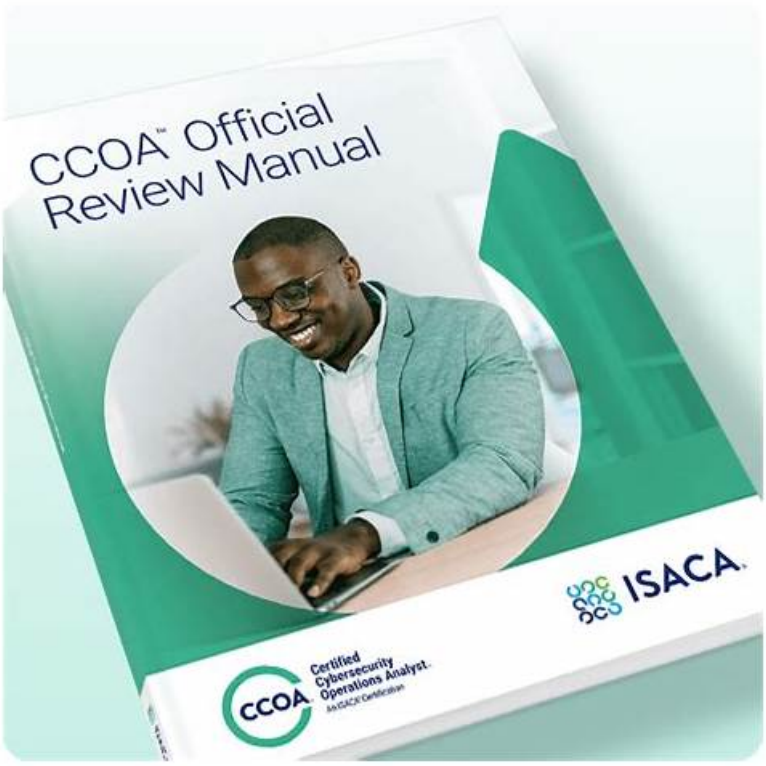


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**>> Reliable CCOA Practice Materials <<**

## Reliable CCOA Practice Materials - Effective CCOA Demo Test and Valid Downloadable ISACA Certified Cybersecurity Operations Analyst PDF

Considering many exam candidates are in a state of anguished mood to prepare for the CCOA exam, our company made three versions of CCOA real exam materials to offer help. All these variants due to our customer-oriented tenets. As a responsible company over ten years, we are trustworthy. In the competitive economy, this company cannot remain in the business for long. But we keep being the leading position in contrast. We are reactive to your concerns and also proactive to new trends happened in this CCOA Exam.

## ISACA CCOA Exam Syllabus Topics:

| Topic | Details |
|---|---|
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| Topic 1 | • Cybersecurity Principles and Risk: This section of the exam measures the skills of a Cybersecurity Specialist and covers core cybersecurity principles and risk management strategies. It includes assessing vulnerabilities, threat analysis, and understanding regulatory compliance frameworks. The section emphasizes evaluating risks and applying appropriate measures to mitigate potential threats to organizational assets. |
| Topic 2 | • Securing Assets: This section of the exam measures skills of a Cybersecurity Specialist and covers the methods and strategies used to secure organizational assets. It includes topics like endpoint security, data protection, encryption techniques, and securing network infrastructure. The goal is to ensure that sensitive information and resources are properly protected from external and internal threats. |
| Topic 3 | • Adversarial Tactics, Techniques, and Procedures: This section of the exam measures the skills of a Cybersecurity Analyst and covers the tactics, techniques, and procedures used by adversaries to compromise systems. It includes identifying methods of attack, such as phishing, malware, and social engineering, and understanding how these techniques can be detected and thwarted. |
| Topic 4 | • Technology Essentials: This section of the exam measures skills of a Cybersecurity Specialist and covers the foundational technologies and principles that form the backbone of cybersecurity. It includes topics like hardware and software configurations, network protocols, cloud infrastructure, and essential tools. The focus is on understanding the technical landscape and how these elements interconnect to ensure secure operations. |
| Topic 5 | • Incident Detection and Response: This section of the exam measures the skills of a Cybersecurity Analyst and focuses on detecting security incidents and responding appropriately. It includes understanding security monitoring tools, analyzing logs, and identifying indicators of compromise. The section emphasizes how to react to security breaches quickly and efficiently to minimize damage and restore operations. |

## ISACA Certified Cybersecurity Operations Analyst Sample Questions (Q39-Q44):

**NEW QUESTION # 39**
Which of (he following is the PRIMARY reason to regularly review firewall rules?

- A. To correct mistakes made by other firewall administrators
- B. To ensure the rules remain in the correct order
- C. To identify and allow blocked traffic that should be permitted
- D. To identify and remove rules that are no longer needed

**Answer: D**

Explanation:
Regularly reviewing firewall rules ensures that outdated, redundant, or overly permissive rules are identified and removed.
* Reduced Attack Surface:Unnecessary or outdated rules may open attack vectors.
* Compliance and Policy Adherence:Ensures that only authorized communication paths are maintained.
* Performance Optimization:Reducing rule clutter improves processing efficiency.
* Minimizing Misconfigurations:Prevents rule conflicts or overlaps that could compromise security.
Incorrect Options:
* B. Identifying blocked traffic to permit:The review's primary goal is not to enable traffic but to reduce unnecessary rules.
* C. Ensuring correct rule order:While important, this is secondary to identifying obsolete rules.
* D. Correcting administrator mistakes:Though helpful, this is not the main purpose of regular reviews.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 5, Section "Firewall Management," Subsection "Rule Review Process" - The primary reason for reviewing firewall rules regularly is to eliminate rules that are no longer necessary.

**NEW QUESTION # 40**
Which of the following MOST directly supports the cybersecurity objective of integrity?

- A. Data backups
- B. Least privilege
- C. Encryption
- D. Digital signatures

**Answer: D**

Explanation:
The cybersecurity objective ofintegrityensures that data isaccurate, complete, and unaltered. The most direct method to support integrity is the use ofdigital signaturesbecause:
* Tamper Detection:A digital signature provides a way to verify that data has not been altered after signing.
* Authentication and Integrity:Combines cryptographic hashing and public key encryption to validate both the origin and the integrity of data.
* Non-Repudiation:Ensures that the sender cannot deny having sent the message.
* Use Case:Digital signatures are commonly used in secure email, software distribution, and document verification.
Other options analysis:
* A. Data backups:Primarily supports availability, not integrity.
* C. Least privilege:Supports confidentiality by limiting access.
* D. Encryption:Primarily supports confidentiality by protecting data from unauthorized access.
CCOA Official Review Manual, 1st Edition References:
* Chapter 5: Data Integrity Mechanisms:Discusses the role of digital signatures in preserving data integrity.
* Chapter 8: Cryptographic Techniques:Explains how signatures authenticate data.

**NEW QUESTION # 41**
The network team has provided a PCAP file withsuspicious activity located in the Investigations folderon the Desktop titled, investigation22.pcap.
What is the filename of the webshell used to control thehost 10.10.44.200? Your response must include the fileextension.

**Answer:**

Explanation:
See the solution in Explanation.
Explanation:
To identify thefilename of the webshellused to control the host10.10.44.200from the provided PCAP file, follow these detailed steps:
Step 1: Access the PCAP File
* Log into theAnalyst Desktop.
* Navigate to theInvestigationsfolder located on the desktop.
* Locate the file:
investigation22.pcap
Step 2: Open the PCAP File in Wireshark
* LaunchWiresharkon the Analyst Desktop.
* Open the PCAP file:
mathematica
File > Open > Desktop > Investigations > investigation22.pcap
* ClickOpento load the file.
Step 3: Filter Traffic Related to the Target Host
* Apply a filter to display only the traffic involving thetarget IP address (10.10.44.200):
ini
ip.addr == 10.10.44.200
* This will show both incoming and outgoing traffic from the compromised host.
Step 4: Identify HTTP Traffic
* Since webshells typically use HTTP/S for communication, filter for HTTP requests:
http.request and ip.addr == 10.10.44.200
* Look for suspiciousPOSTorGETrequests indicating a webshell interaction.
Common Indicators:
* Unusual URLs:Containing scripts like cmd.php, shell.jsp, upload.asp, etc.
* POST Data:Indicating command execution.
* Response Status:HTTP 200 (Success) after sending commands.
Step 5: Inspect Suspicious Requests

* Right-click on a suspicious HTTP packet and select:
arduino
Follow > HTTP Stream
* Examine the HTTP conversation for:
* File uploads
* Command execution responses
* Webshell file namesin the URL.
Example:
makefile
POST /uploads/shell.jsp HTTP/1.1
Host: 10.10.44.200
User-Agent: Mozilla/5.0
Content-Type: application/x-www-form-urlencoded
Step 6: Correlate Observations
* If you identify a script like shell.jsp, verify it by checking multiple HTTP streams.
* Look for:
* Commands sent via the script.
* Response indicating successful execution or error.
Step 7: Extract and Confirm
* To confirm the filename, look for:
* Upload requests containing the webshell.
* Subsequent requests calling the same filename for command execution.
* Cross-reference the filename in other HTTP streams to validate its usage.
Step 8: Example Findings:
After analyzing the HTTP streams and reviewing requests to the host 10.10.44.200, you observe that the webshell file being used is:
shell.jsp
Final Answer:
shell.jsp
Step 9: Further Investigation
* Extract the Webshell:
* Right-click the related packet and choose:
mathematica
Export Objects > HTTP
* Save the file shell.jsp for further analysis.
* Analyze the Webshell:
* Open the file with a text editor to examine its functionality.
* Check for hardcoded credentials, IP addresses, or additional payloads.
Step 10: Documentation and Response
* Document Findings:
* Webshell Filename:shell.jsp
* Host Compromised:10.10.44.200
* Indicators:HTTP POST requests, suspicious file upload.
* Immediate Actions:
* Isolate the host10.10.44.200.
* Remove the webshell from the web server.
* Conduct aroot cause analysisto determine how it was uploaded.

**NEW QUESTION # 42**
Which type of cloud deployment model is intended to be leveraged over the Internet by many organizations with varying needs and requirements?

- A. Hybrid cloud
- B. Private cloud
- C. Public cloud
- D. Community cloud

**Answer: C**

Explanation:
Apublic cloudis intended to be accessible over theInternetby multiple organizations with varying needs and requirements:

* Multi-Tenancy:The same infrastructure serves numerous clients.
* Accessibility:Users can access resources from anywhere via the Internet.
* Scalability:Provides flexible and on-demand resource allocation.
* Common Providers:AWS, Azure, and Google Cloud offer public cloud services.
Incorrect Options:
* A. Hybrid cloud:Combines private and public cloud, not primarily public.
* B. Community cloud:Shared by organizations with common concerns, not broadly public.
* D. Private cloud:Exclusive to a single organization, not accessible by many.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 3, Section "Cloud Deployment Models," Subsection "Public Cloud Characteristics" - Public clouds are designed for use by multiple organizations via the Internet.

**NEW QUESTION # 43**
Which of the following should occur FIRST during the vulnerability identification phase?

- A. Determine the categories of vulnerabilities possible for the type of asset being tested.
- B. Assess the risks associated with the vulnerabilities Identified.
- C. Inform relevant stakeholders that vulnerability scanning will be taking place.
- D. Run vulnerability scans of all in-scope assets.

**Answer: C**

Explanation:
During thevulnerability identification phase, thefirst stepis toinform relevant stakeholdersabout the upcoming scanning activities:
* Minimizing Disruptions:Prevents stakeholders from mistaking scanning activities for an attack.
* Change Management:Ensures that scanning aligns with operational schedules to minimize downtime.
* Stakeholder Awareness:Helps IT and security teams prepare for the scanning process and manage alerts.
* Authorization:Confirms that all involved parties are aware and have approved the scanning.
Incorrect Options:
* B. Run vulnerability scans:Should only be done after proper notification.
* C. Determine vulnerability categories:Done as part of planning, not the initial step.
* D. Assess risks of identified vulnerabilities:Occurs after the scan results are obtained.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 6, Section "Vulnerability Management," Subsection "Preparation and Communication" - Informing stakeholders ensures transparency and coordination.

**NEW QUESTION # 44**
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