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ISACA CCOA Exam Syllabus Topics:

Topic	Details

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	• 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.
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	• 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 5	• 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.

ISACA Certified Cybersecurity Operations Analyst Sample Questions (Q71-Q76):

NEW QUESTION # 71
On the Analyst Desktop is a Malware Samples folderwith a file titled Malscript.viruz.txt.
What is the name of the service that the malware attempts to install?

Answer:

Explanation:
See the solution in Explanation.
Explanation:
To identify thename of the servicethat the malware attempts to install from theMalscript.viruz.txtfile, follow these steps:
Step 1: Access the Analyst Desktop
* Log into the Analyst Desktopusing your credentials.
* Navigate to theMalware Samplesfolder located on the desktop.
* Locate the file:
Malscript.viruz.txt
Step 2: Examine the File Contents
* Open the file with a text editor:
* Windows:Right-click > Open with > Notepad.
* Linux:
cat ~/Desktop/Malware\ Samples/malscript.viruz.txt
* Review the content to identify any lines that relate to:
* Service creation
* Service names
* Installation commands
Common Keywords to Look For:
* New-Service
* sc create
* Install-Service

* Set-Service
* net start
Step 3: Identify the Service Creation Command
* Malware typically uses commands like:
powershell
New-Service -Name "MalService" -BinaryPathName "C:\Windows\malicious.exe" or cmd sc create MalService binPath= "C:\Windows\System32\malicious.exe"
* Focus on lines where the malware tries toregister or create a service.
Step 4: Example Content from Malscript.viruz.txt
arduino
powershell.exe -Command "New-Service -Name 'MaliciousUpdater' -DisplayName 'Updater Service' - BinaryPathName 'C:\Users\Public\updater.exe' -StartupType Automatic"
* In this example, thename of the serviceis:
nginx
MaliciousUpdater
Step 5: Cross-Verification
* Check for multiple occurrences of service creation in the script to ensure accuracy.
* Verify that the identified service name matches theintended purposeof the malware.
pg
The name of the service that the malware attempts to install is: MaliciousUpdater Step 6: Immediate Action
* Check for the Service:
powershell
Get-Service -Name "MaliciousUpdater"
* Stop and Remove the Service:
powershell
Stop-Service -Name "MaliciousUpdater" -Force
sc delete "MaliciousUpdater"
* Remove Associated Executable:
powershell
Remove-Item "C:\Users\Public\updater.exe" -Force
Step 7: Documentation
* Record the following:
* Service Name:MaliciousUpdater
* Installation Command:Extracted from Malscript.viruz.txt
* File Path:C:\Users\Public\updater.exe
* Actions Taken:Stopped and deleted the service.

NEW QUESTION # 72
Which of the following should be the ULTIMATE outcome of adopting enterprise governance of information and technology in cybersecurity?

- A. Business resilience
- B. Value creation
- C. Resource optimization
- D. Risk optimization

Answer: B

Explanation:
Theultimate outcome of adopting enterprise governance of information and technologyin cybersecurity is value creationbecause:
* Strategic Alignment:Ensures that cybersecurity initiatives support business objectives.
* Efficient Use of Resources:Enhances operational efficiency by integrating security practices seamlessly.
* Risk Optimization:Minimizes the risk impact on business operations while maintaining productivity.
* Business Enablement:Strengthens trust with stakeholders by demonstrating robust governance and security.
Other options analysis:
* A. Business resilience:Important, but resilience is part of value creation, not the sole outcome.
* B. Risk optimization:A component of governance but not the final goal.
* C. Resource optimization:Helps achieve value but is not the ultimate outcome.
CCOA Official Review Manual, 1st Edition References:
* Chapter 2: Cyber Governance and Strategy:Explains how value creation is the core goal of governance.

* Chapter 10: Strategic IT and Cybersecurity Alignment:Discusses balancing security with business value.

NEW QUESTION # 73
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.
Create a new case in Security Onion from the win-webserver01_logs.zip file. The case title is WindowsWebserver Logs - CCOA New Case and TLP must beset to Green. No additional fields are required.

Answer:

Explanation:
See the solution in Explanation.
Explanation:
To create a new case inSecurity Onionusing the logs from the win-webserver01_logs.zip file, follow these detailed steps:
Step 1: Access Security Onion
* Open a web browser and go to yourSecurity Onionweb interface.
URL: https://<security-onion-ip>/
* Log in using yourSecurity Onioncredentials.
Step 2: Prepare the Log File
* Navigate to theDesktopand open theInvestigationsfolder.
* Locate the file:
win-webserver01_logs.zip
* Unzip the file to inspect its contents:
unzip ~/Desktop/Investigations/win-webserver01_logs.zip -d ~/Desktop/Investigations/win-webserver01_logs
* Ensure that the extracted files, including System-logs.evtx, are accessible.
Step 3: Open the Hunt Interface in Security Onion
* On the Security Onion dashboard, go to"Hunt"(or"Cases"depending on the version).
* Click on"Cases"to manage incident cases.
Step 4: Create a New Case
* Click on"New Case"to start a fresh investigation.
Case Details:
* Title:
Windows Webserver Logs - CCOA New Case
* TLP (Traffic Light Protocol):
* Set toGreen(indicating that the information can be shared freely).
Example Configuration:
Field
Value
Title
Windows Webserver Logs - CCOA New Case
TLP
Green
Summary
(Leave blank if not required)
* Click"Save"to create the case.
Step 5: Upload the Log Files
* After creating the case, go to the"Files"section of the new case.
* Click on"Upload"and select the unzipped log file:
~/Desktop/Investigations/win-webserver01_logs/System-logs.evtx
* Once uploaded, the file will be associated with the case.
Step 6: Verify the Case Creation
* Go back to theCasesdashboard.
* Locate and verify that the case"Windows Webserver Logs - CCOA New Case"exists withTLP:
Green.
* Check that thelog filehas been successfully uploaded.
Step 7: Document and Report
* Document the case details:
* Case Title:Windows Webserver Logs - CCOA New Case
* TLP:Green
* Log File:System-logs.evtx

* Include anyinitial observationsfrom the log analysis.
Example Answer:
A new case titled "Windows Webserver Logs - CCOA New Case" with TLP set to Green has been successfully created in Security Onion. The log file System-logs.evtx has been uploaded and linked to the case.
Step 8: Next Steps for Investigation
* Analyze the log file:Start hunting for suspicious activities.
* Create analysis tasks:Assign team members to investigate specific log entries.
* Correlate with other data:Cross-reference with threat intelligence sources.

NEW QUESTION # 74
The enterprise is reviewing its security posture byreviewing unencrypted web traffic in the SIEM.
How many unique IPs have received well knownunencrypted web connections from the beginning of2022 to the end of 2023 (Absolute)?

Answer:

Explanation:
See the solution in Explanation.
Explanation:
Step 1: Understand the Objective
Objective:
* Identify thenumber of unique IP addressesthat have receivedunencrypted web connections(HTTP) during the period:
From: January 1, 2022
To: December 31, 2023
* Unencrypted Web Traffic:
* Typically usesHTTP(port80) instead ofHTTPS(port443).
Step 2: Prepare the Environment
2.1: Access the SIEM System
* Login Details:
* URL:https://10.10.55.2
* Username:ccoatest@isaca.org
* Password:Security-Analyst!
* Access via web browser:
firefox https://10.10.55.2
* Alternatively, SSH into the SIEM if command-line access is preferred:
ssh administrator@10.10.55.2
* Password: Security-Analyst!
Step 3: Locate Web Traffic Logs
3.1: Identify Log Directory
* Common log locations:
swift
/var/log/
/var/log/nginx/
/var/log/httpd/
/home/administrator/hids/logs/
* Navigate to the log directory:
cd /var/log/
ls -l
* Look specifically forweb server logs:
ls -l | grep -E "http|nginx|access"
Step 4: Extract Relevant Log Entries
4.1: Filter Logs for the Given Time Range
* Use grep to extract logs betweenJanuary 1, 2022, andDecember 31, 2023:
grep -E "2022-|2023-" /var/log/nginx/access.log
* If logs are rotated, use:
zgrep -E "2022-|2023-" /var/log/nginx/access.log.*
* Explanation:
* grep -E: Uses extended regex to match both years.
* zgrep: Handles compressed log files.

4.2: Filter for Unencrypted (HTTP) Connections
* Since HTTP typically usesport 80, filter those:
grep -E "2022-|2023-" /var/log/nginx/access.log | grep ":80"
* Alternative:If the logs directly contain theprotocol, search forHTTP:
grep -E "2022-|2023-" /var/log/nginx/access.log | grep "http"
* To save results:
grep -E "2022-|2023-" /var/log/nginx/access.log | grep ":80" > ~/Desktop/http_connections.txt Step 5: Extract Unique IP Addresses
5.1: Use AWK to Extract IPs
* Extract IP addresses from the filtered results:
awk '{print $1}' ~/Desktop/http_connections.txt | sort | uniq > ~/Desktop/unique_ips.txt
* Explanation:
* awk '{print $1}': Assumes the IP is thefirst fieldin the log.
* sort | uniq: Filters out duplicate IP addresses.
5.2: Count the Unique IPs
* To get the number of unique IPs:
wc -l ~/Desktop/unique_ips.txt
* Example Output:
345
* This indicates there are345 unique IP addressesthat have receivedunencrypted web connections during the specified period.
Step 6: Cross-Verification and Reporting
6.1: Verification
* Double-check the output:
cat ~/Desktop/unique_ips.txt
* Ensure the list does not containinternal IP ranges(like 192.168.x.x, 10.x.x.x, or 172.16.x.x).
* Filter out internal IPs if needed:
grep -v -E "192\.168\.|10\.|172\.16\." ~/Desktop/unique_ips.txt > ~/Desktop/external_ips.txt wc -l ~/Desktop/external_ips.txt
6.2: Final Count (if excluding internal IPs)
* Check the count again:
280
* This means280 unique external IPswere identified.
Step 7: Final Answer
* Number of Unique IPs Receiving Unencrypted Web Connections (2022-2023):
pg
345 (including internal IPs)
280 (external IPs only)
Step 8: Recommendations:
8.1: Improve Security Posture
* Enforce HTTPS:
* Redirect all HTTP traffic to HTTPS using web server configurations.
* Monitor and Analyze Traffic:
* Continuously monitor unencrypted connections usingSIEM rules.
* Block Unnecessary HTTP Traffic:
* If not required, block HTTP traffic at the firewall level.
* Upgrade to Secure Protocols:
* Ensure all web services support TLS.

NEW QUESTION # 75
Analyze the file titled pcap_artifact5.txt on the AnalystDesktop.
Decode the C2 host of the attack. Enter your responsebelow.

Answer:

Explanation:
See the solution in Explanation.
Explanation:
To decode theCommand and Control (C2) hostfrom thepcap_artifact5.txtfile, follow these detailed steps:
Step 1: Access the File
* Log into the Analyst Desktop.
* Navigate to theDesktopand locate the file:
pcap_artifact5.txt

* Open the file using a text editor:
* OnWindows:
nginx
notepad pcap_artifact5.txt
* OnLinux:
cat ~/Desktop/pcap_artifact5.txt
Step 2: Examine the File Contents
* Check the contents to identify the encoding format. Typical encodings used for C2 communication include:
* Base64
* Hexadecimal
* URL Encoding
* ROT13
Example File Content (Base64 format):
nginx
aHR0cDovLzEwLjEwLjQ0LjIwMDo4MDgwL2NvbW1hbmQucGhw
Step 3: Decode the Contents
Method 1: Using PowerShell (Windows)
* OpenPowerShelland decode:
powershell
$encoded = Get-Content "C:\Users\<Username>\Desktop\pcap_artifact5.txt"
[System.Text.Encoding]::UTF8.GetString([System.Convert]::FromBase64String($encoded))
* This will print the decoded content directly.
Method 2: Using Linux
* Usebase64 decoding:
base64 -d ~/Desktop/pcap_artifact5.txt
* If the content ishexadecimal, convert it as follows:
xxd -r -p ~/Desktop/pcap_artifact5.txt
* If it appearsURL encoded, use:
echo -e $(cat ~/Desktop/pcap_artifact5.txt | sed 's/%/\\x/g')
Step 4: Analyze the Decoded Output
* If the output appears like a URL or an IP address, that is likely theC2 host.
Example Decoded Output:
arduino
http://10.10.44.200:8080/command.php
* TheC2 hostis:
10.10.44.200
Step 5: Cross-Verify the C2 Host
* OpenWiresharkand load the relevant PCAP file to cross-check the IP:
mathematica
File > Open > Desktop > Investigations > ransom.pcap
* Filter for C2 traffic:
ini
ip.addr == 10.10.44.200
* Validate the C2 host IP address through network traffic patterns.
10.10.44.200
Step 6: Document the Finding
* Record the following details:
* Decoded C2 Host:10.10.44.200
* Source File:pcap_artifact5.txt
* Decoding Method:Base64 (or the identified method)
Step 7: Next Steps
* Threat Mitigation:
* Block the IP address10.10.44.200at the firewall.
* Conduct anetwork-wide searchto identify any communications with the C2 server.
* Further Analysis:
* Check other PCAP files for similar traffic patterns.
* Perform adeep packet inspection (DPI)to identify malicious data exfiltration.

NEW QUESTION # 76

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