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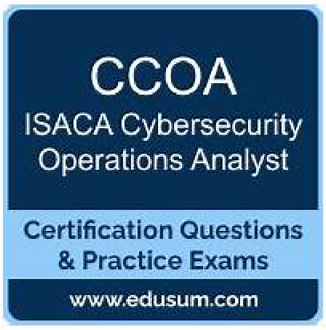
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ISACA Cybersecurity Operations Analyst
Certification Questions & Practice Exams
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ISACA CCOA Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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 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	- 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.

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ISACA Certified Cybersecurity Operations Analyst Sample Questions (Q115-Q120):

NEW QUESTION # 115
During a post-mortem incident review meeting, it is noted that a malicious attacker attempted to achieve network persistence by using vulnerabilities that appeared to be lower risk but ultimately allowed the attacker to escalate their privileges. Which ofthe following did the attacker MOST likely apply?

- A. Exploit chaining
- B. Cross-site scripting
- C. Deployment of rogue wireless access points
- D. Brute force attack

Answer: A

Explanation:
Exploit chaininginvolves combining multiple lower-severity vulnerabilities toescalate privileges or gain persistencein a network. The attacker:
* Combines Multiple Exploits:Uses interconnected vulnerabilities that, individually, seem low-risk but together form a critical threat.
* Privilege Escalation:Gains elevated access by chaining exploits, often bypassing security measures.
* Persistence Mechanism:Once privilege is gained, attackers establish long-term control.
* Advanced Attacks:Typically seen in advanced persistent threats (APTs) where the attacker meticulously combines weaknesses.
Other options analysis:
* B. Brute force attack:Involves password guessing, not chaining vulnerabilities.
* C. Cross-site scripting:Focuses on injecting malicious scripts, unrelated to privilege escalation.
* D. Rogue wireless access points:Involves unauthorized devices, not exploit chaining.
CCOA Official Review Manual, 1st Edition References:
* Chapter 6: Attack Techniques and Vectors:Describes exploit chaining and its strategic use.
* Chapter 9: Incident Analysis:Discusses how attackers combine low-risk vulnerabilities for major impact.

NEW QUESTION # 116
Which of the following roles is responsible for approving exceptions to and deviations from the incident management team charter on an ongoing basis?

- A. Cybersecurity analyst

- B. Security steering group
- C. Incident response manager
- D. Chief information security officer (CISO)

Answer: D

Explanation:
TheCISOis typically responsible for approvingexceptions and deviationsfrom theincident management team charterbecause:
* Strategic Decision-Making:As the senior security executive, the CISO has the authority to approve deviations based on risk assessments and business priorities.
* Policy Oversight:The CISO ensures that any exceptions align with organizational security policies.
* Incident Management Governance:As part of risk management, the CISO is involved in high-level decisions impacting incident response.
Other options analysis:
* A. Security steering group:Advises on strategy but does not typically approve operational deviations.
* B. Cybersecurity analyst:Executes tasks rather than making executive decisions.
* D. Incident response manager:Manages day-to-day operations but usually does not approve policy deviations.
CCOA Official Review Manual, 1st Edition References:
* Chapter 2: Security Governance:Defines the role of the CISO in managing incident-related exceptions.
* Chapter 8: Incident Management Policies:Discusses decision-making authority within incident response.

NEW QUESTION # 117
Following a ransomware incident, the network teamprovided a PCAP file, titled ransom.pcap, located in theInvestigations folder on the Desktop.
What is the full User-Agent value associated with theransomware demand file download. Enter your responsein the field below.

Answer:

Explanation:
See the solution in Explanation.
Explanation:
To identify thefull User-Agent valueassociated with theransomware demand file downloadfrom the ransom.pcapfile, follow these detailed steps:
Step 1: Access the PCAP File
* Log into the Analyst Desktop.
* Navigate to theInvestigationsfolder located on the desktop.
* Locate the file:
ransom.pcap
Step 2: Open the PCAP File in Wireshark
* LaunchWireshark.
* Open the PCAP file:
mathematica
File > Open > Desktop > Investigations > ransom.pcap
* ClickOpento load the file.
Step 3: Filter HTTP Traffic
Since ransomware demands are often served astext files (e.g., README.txt)via HTTP/S, use the following filter:
http.request or http.response
* This filter will show bothHTTP GETandPOSTrequests.
Step 4: Locate the Ransomware Demand File Download
* Look for HTTPGETrequests that include common ransomware filenames such as:
* README.txt
* DECRYPT_INSTRUCTIONS.html
* HELP_DECRYPT.txt
* Right-click on the suspicious HTTP packet and select:
arduino
Follow > HTTP Stream
* Analyze theHTTP headersto find theUser-Agent.
Example HTTP Request:
GET /uploads/README.txt HTTP/1.1
Host: 10.10.44.200

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.5414.75 Safari/537.36 Step 5: Verify the User-Agent
* Check multiple streams to ensure consistency.
* Confirm that theUser-Agentbelongs to the same host(10.10.44.200)involved in the ransomware incident.
swift
Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.
0.5414.75 Safari/537.36
Step 6: Document and Report
* Record the User-Agent for analysis:
* PCAP Filename:ransom.pcap
* User-Agent:Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/109.0.5414.75 Safari/537.36
* Related File:README.txt
Step 7: Next Steps
* Forensic Analysis:
* Look for more HTTP requests from the sameUser-Agent.
* Monitor Network Activity:
* Identify other systems with the same User-Agent pattern.
* Block Malicious Traffic:
* Update firewall rules to block any outbound connections to suspicious domains.

NEW QUESTION # 118

Which of the following BEST offers data encryption, authentication, and integrity of data flowing between a server and the client?

- A. Kerbcros
- B. Simple Network Management Protocol (SNMP)
- C. Secure Sockets Layer (SSL)
- D. Transport Layer Security (TLS)

Answer: D

Explanation:
Transport Layer Security (TLS)provides:
* Data Encryption:Ensures that the data transferred between the client and server is encrypted, preventing eavesdropping.
* Authentication:Verifies the identity of the server (and optionally the client) through digital certificates.
* Data Integrity:Detects any tampering with the transmitted data through cryptographic hash functions.
* Successor to SSL:TLS has largely replaced SSL due to better security protocols.
Incorrect Options:
* A. Secure Sockets Layer (SSL):Deprecated in favor of TLS.
* B. Kerberos:Primarily an authentication protocol, not used for data encryption in transit.
* D. Simple Network Management Protocol (SNMP):Used for network management, not secure data transmission.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 5, Section "Encryption Protocols," Subsection "TLS" - TLS is the recommended protocol for secure communication between clients and servers.

NEW QUESTION # 119

The Platform as a Service (PaaS) model is often used to support which of the following?

- A. Subscription-based pay peruse applications
- B. Control over physical equipment running application developed In-house
- C. Efficient application development and management
- D. Local on-premise management of products and services

Answer: C

Explanation:
The Platform as a Service (PaaS) model is primarily designed to provide a platform that supports the development, testing, deployment, and management of applications without the complexity of building and maintaining the underlying infrastructure. It offers developers a comprehensive environment with tools and libraries for application development, database management, and more.

* PaaS solutions typically include development frameworks, application hosting, version control, and integration capabilities.
* It abstracts the hardware and operating system layer, allowing developers to focus solely on building applications.
* PaaS is typically used for creating and managing web or mobile applications efficiently.
Incorrect Options:
* B. Local on-premise management of products and services:PaaS is a cloud-based model, not on- premise.
* C. Subscription-based pay per use applications:This characteristic aligns more with the Software as a Service (SaaS) model.
* D. Control over physical equipment running application developed In-house:This corresponds to Infrastructure as a Service (IaaS) rather than PaaS.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 3, Section "Cloud Service Models", Subsection "Platform as a Service (PaaS)" - PaaS is designed to facilitate efficient application development and management by offering integrated environments for application lifecycle management.

NEW QUESTION # 120
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