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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	• 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	- 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 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	- 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.

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ISACA Certified Cybersecurity Operations Analyst Sample Questions (Q25-Q30):

NEW QUESTION # 25
When identifying vulnerabilities, which of the following should a cybersecurity analyst determine FIRST?

- A. The numberof tested asset types included in the assessment
- B. The vulnerability categories possible for the tested asset types
- C. The number of vulnerabilities Identifiable by the scanning tool
- D. The vulnerability categories Identifiable by the scanning tool

Answer: B

Explanation:
When identifying vulnerabilities, thefirst stepfor a cybersecurity analyst is to determine thevulnerability categories possible for the tested asset typesbecause:
* Asset-Specific Vulnerabilities:Different asset types (e.g., servers, workstations, IoT devices) are susceptible to different vulnerabilities.
* Targeted Scanning:Knowing the asset type helps in choosing the correctvulnerability scanning tools and configurations.
* Accuracy in Assessment:This ensures that the scan is tailored to the specific vulnerabilities associated with those assets.
* Efficiency:Reduces false positives and negatives by focusing on relevant vulnerability categories.
Other options analysis:
* A. Number of vulnerabilities identifiable:This is secondary; understanding relevant categories comes first.
* B. Number of tested asset types:Knowing asset types is useful, but identifying their specific vulnerabilities is more crucial.
* D. Vulnerability categories identifiable by the tool:Tool capabilities matter, but only after determining what needs to be tested.
CCOA Official Review Manual, 1st Edition References:
* Chapter 6: Vulnerability Management:Discusses the importance of asset-specific vulnerability identification.
* Chapter 8: Threat and Vulnerability Assessment:Highlights the relevance of asset categorization.

NEW QUESTION # 26

SOAP and REST are Iwo different approaches related to:

- A. SG/6G networks.
- B. cloud-based anomaly detection.
- C. application programming Interface (API) design.
- D. machine learning (ML) design.

Answer: C

Explanation:
SOAP (Simple Object Access Protocol)andREST (Representational State Transfer)are two common approaches used inAPI design:
* SOAP:A protocol-based approach with strict rules, typically using XML.
* REST:A more flexible, resource-based approach that often uses JSON.
* Usage:Both methods facilitate communication between applications, especially in web services.
* Key Difference:SOAP is more structured and secure for enterprise environments, while REST is lightweight and widely used in modern web applications.
Incorrect Options:
* A. Machine learning (ML) design:These protocols do not pertain to ML.
* B. Cloud-based anomaly detection:Not related to cloud anomaly detection.
* C. 5G/6G networks:APIs are application communication methods, not network technologies.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 7, Section "API Security," Subsection "SOAP vs. REST" - SOAP and REST are widely adopted API design methodologies with distinct characteristics.

NEW QUESTION # 27
An organization was breached via a web application attack to a database in which user inputs were not validated. This can BEST be described as which type of attack?

- A. Infection
- B. Buffer overflow
- C. Broken access control
- D. X-Path

Answer: C

Explanation:
The described scenario indicates aInjection (i)attack, where the attacker exploitsinsufficient input validation in a web application to manipulate queries. This type of attack falls under the category ofBroken Access Controlbecause:
* Improper Input Handling:The application fails to properly sanitize or validate user inputs, allowing malicious commands to execute.
* Direct Database Manipulation:Attackers can bypass normal authentication or gain elevated access by injecting code.
* OWASP Top Ten 2021:ListsBroken Access Controlas a critical risk, often leading to data breaches when input validation is weak.
Other options analysis:
* B. Infection:Typically involves malware, which is not relevant here.
* C. Buffer overflow:Involves memory management errors, not manipulation.
* D. X-Path:Involves XML query manipulation, not databases.
CCOA Official Review Manual, 1st Edition References:
* Chapter 4: Web Application Security:Discusses Injection as a common form of broken access control.
* Chapter 9: Secure Coding and Development:Stresses the importance of input validation to prevent i.

NEW QUESTION # 28
Which of the following is the PRIMARY purpose for an organization to adopt a cybersecurityframework?

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

Answer: A

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 # 29

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 # 30

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