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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	• 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 4	• 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 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.

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ISACA Certified Cybersecurity Operations Analyst Sample Questions (Q12-Q17):

NEW QUESTION # 12
In which cloud service model are clients responsible for regularly updating the operating system?

- A. Software as a Service (SaaS)
- B. Platform as a Service (PaaS)
- C. Infrastructure as a Service (IaaS)
- D. Database as a Service (OBaaS)

Answer: C

Explanation:
In theIaaS (Infrastructure as a Service)model, clients are responsible formanaging and updating the operating systembecause:
* Client Responsibility:The provider supplies virtualized computing resources (e.g., VMs), but OS maintenance remains with the client.
* Flexibility:Users can install, configure, and update OSs according to their needs.
* Examples:AWS EC2, Microsoft Azure VMs.
* Compared to Other Models:
* SaaS:The provider manages the entire stack, including the OS.
* DBaaS:Manages databases without requiring OS maintenance.
* PaaS:The platform is managed, leaving no need for direct OS updates.
CCOA Official Review Manual, 1st Edition References:
* Chapter 10: Cloud Security and IaaS Management:Discusses client responsibilities in IaaS environments.
* Chapter 9: Cloud Deployment Models:Explains how IaaS differs from SaaS and PaaS.

NEW QUESTION # 13
Which of the following risks is MOST relevant to cloud auto-scaling?

- A. Loss of integrity
- B. Unforeseen expenses
- C. Loss of confidentiality
- D. Data breaches

Answer: B

Explanation:
One of the most relevant risks associated withcloud auto-scalingisunforeseen expenses:
* Dynamic Resource Allocation:Auto-scaling automatically adds resources based on demand, which can increase costs unexpectedly.
* Billing Surprises:Without proper monitoring, auto-scaling can significantly inflate cloud bills, especially during traffic spikes.
* Mitigation:Implementing budget controls and alerts helps manage costs.
* Financial Risk:Organizations may face budget overruns if auto-scaling configurations are not properly optimized.
Incorrect Options:
* A. Loss of confidentiality:Not directly related to auto-scaling.
* B. Loss of integrity:Auto-scaling does not inherently affect data integrity.
* C. Data breaches:More related to security misconfigurations rather than scaling issues.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 3, Section "Cloud Security Challenges," Subsection "Cost Management in Auto-Scaling" - Uncontrolled auto-scaling can lead to significant and unexpected financial impact.

NEW QUESTION # 14
Which of the following network topologies is MOST resilient to network failures and can prevent a single point of failure?

- A. Mesh
- B. Bus
- C. Ring
- D. Star

Answer: A

Explanation:
Amesh network topologyis the most resilient to network failures because:
* Redundancy:Each node is interconnected, providing multiple pathways for data to travel.
* No Single Point of Failure:If one connection fails, data can still be routed through alternative paths.
* High Fault Tolerance:The decentralized structure ensures that the failure of a single device or link does not significantly impact network performance.
* Ideal for Critical Infrastructure:Often used in environments where uptime is critical, such as financial or emergency services networks.
Other options analysis:
* B. Star:A central hub connects all nodes, so if the hub fails, the entire network collapses.
* C. Bus:A single backbone cable means a break in the cable can disrupt the entire network.
* D. Ring:Data travels in a circular path; a single break can isolate part of the network unless it is a dual- ring topology.
CCOA Official Review Manual, 1st Edition References:
* Chapter 4: Network Security Operations:Discusses network topology and its impact on reliability and redundancy.
* Chapter 9: Network Design and Architecture:Highlights resilient topologies, including mesh, for secure and fault-tolerant operations.

NEW QUESTION # 15
The PRIMARY function of open source intelligence (OSINT) is:

- A. Initiating active probes for open ports with the aim of retrieving service version information.
- B. encoding stolen data prior to exfiltration to subvert data loss prevention (DIP) controls.
- C. delivering remote access malware packaged as an executable file via social engineering tactics.
- D. leveraging publicly available sources to gather Information on an enterprise or on individuals.

Answer: D

Explanation:
The primary function of Open Source Intelligence (OSINT) is to collect and analyze information from publicly available sources. This data can include:
* Social Media Profiles:Gaining insights into employees or organizational activities.
* Public Websites:Extracting data from corporate pages, forums, or blogs.

* Government and Legal Databases:Collecting information from public records and legal filings.
* Search Engine Results:Finding indexed data, reports, or leaked documents.
* Technical Footprinting:Gathering information from publicly exposed systems or DNS records.
OSINT is crucial in both defensive and offensive security strategies, providing insights into potential attack vectors or organizational vulnerabilities.
Incorrect Options:
* A. Encoding stolen data prior to exfiltration:This relates to data exfiltration techniques, not OSINT.
* B. Initiating active probes for open ports:This is part of network scanning, not passive intelligence gathering.
* C. Delivering remote access malware via social engineering:This is an attack vector rather than intelligence gathering.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 2, Section "Threat Intelligence and OSINT", Subsection "Roles and Applications of OSINT"
- OSINT involves leveraging publicly available sources to gather information on potential targets, be it individuals or organizations.

NEW QUESTION # 16
The CISO has received a bulletin from law enforcementauthorities warning that the enterprise may be at risk ofattack from a specific threat actor. Review the bulletin named CCOA Threat Bulletin.pdf on the Desktop.
Which host IP was targeted during the following timeframe: 11:39 PM to 11:43 PM (Absolute) on August 16,2024?

Answer:

Explanation:
See the solution in Explanation.
Explanation:
Step 1: Understand the Task and Objective
Objective:
* Identify thehost IP targetedduring thespecified time frame:
vbnet
11:39 PM to 11:43 PM on August 16, 2024
* The relevant file to examine:
nginx
CCOA Threat Bulletin.pdf
* File location:
javascript
~/Desktop/CCOA Threat Bulletin.pdf
Step 2: Access and Analyze the Bulletin
2.1: Access the PDF File
* Open the file using a PDF reader:
xdg-open ~/Desktop/CCOA\ Threat\ Bulletin.pdf
* Alternative (if using CLI-based tools):
pdftotext ~/Desktop/CCOA\ Threat\ Bulletin.pdf - | less
* This command converts the PDF to text and allows you to inspect the content.
2.2: Review the Bulletin Contents
* Focus on:
* Specific dates and times mentioned.
* Indicators of Compromise (IoCs), such asIP addressesortimestamps.
* Any references toAugust 16, 2024, particularly between11:39 PM and 11:43 PM.
Step 3: Search for Relevant Logs
3.1: Locate the Logs
* Logs are likely stored in a central logging server or SIEM.
* Common directories to check:
swift
/var/log/
/home/administrator/hids/logs/
/var/log/auth.log
/var/log/syslog
* Navigate to the primary logs directory:
cd /var/log/
ls -l
3.2: Search for Logs Matching the Date and Time

* Use the grep command to filter relevant logs:
grep "2024-08-16 23:3[9-9]\|2024-08-16 23:4[0-3]" /var/log/syslog
* Explanation:
* grep: Searches for the timestamp pattern in the log file.
* "2024-08-16 23:3[9-9]\|2024-08-16 23:4[0-3]": Matches timestamps from11:39 PM to 11:43 PM.
Alternative Command:
If log files are split by date:
grep "23:3[9-9]\|23:4[0-3]" /var/log/syslog.1
Step 4: Filter the Targeted Host IP
4.1: Extract IP Addresses
* After filtering the logs, isolate the IP addresses:
grep "2024-08-16 23:3[9-9]\|2024-08-16 23:4[0-3]" /var/log/syslog | awk '{print $8}' | sort | uniq -c | sort -nr
* Explanation:
* awk '{print $8}': Extracts the field where IP addresses typically appear.
* sort | uniq -c: Counts unique IPs and sorts them.
Step 5: Analyze the Output
Sample Output:
15 192.168.1.10
8 192.168.1.20
3 192.168.1.30
* The IP with themost log entrieswithin the specified timeframe is usually thetargeted host.
* Most likely targeted IP:
192.168.1.10
* If the log contains specific attack patterns (likebrute force,exploitation, orunauthorized access), prioritize IPs associated with those activities.
Step 6: Validate the Findings
6.1: Cross-Reference with the Threat Bulletin
* Check if the identified IP matches anyIoCslisted in theCCOA Threat Bulletin.pdf.
* Look for context likeattack vectorsortargeted systems.
Step 7: Report the Findings
Summary:
* Time Frame:11:39 PM to 11:43 PM on August 16, 2024
* Targeted IP:
192.168.1.10
* Evidence:
* Log entries matching the specified timeframe.
* Cross-referenced with theCCOA Threat Bulletin.
Step 8: Incident Response Recommendations
* Block IP addressesidentified as malicious.
* Update firewall rulesto mitigate similar attacks.
* Monitor logsfor any post-compromise activity on the targeted host.
* Conduct a vulnerability scanon the affected system.
Final Answer:
192.168.1.10

NEW QUESTION # 17
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