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ISACA CCOA Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 (Q87-Q92):

NEW QUESTION # 87

For this question you must log into GreenboneVulnerability Manager using Firefox. The URL is:https://10.10.55.4:9392 and credentials are:

Username:admin

Password:Secure-gvm!

A colleague performed a vulnerability scan but did not review prior to leaving for a family emergency. It has been determined that a threat actor is using CVE-2021-22145 in the wild. What is the host IP of the machine that is vulnerable to this CVE?

Answer:

Explanation:

See the solution in Explanation.

Explanation:

To determine the host IP of the machine vulnerable to CVE-2021-22145 using Greenbone Vulnerability Manager (GVM), follow these detailed steps:

Step 1: Access Greenbone Vulnerability Manager

* Open Firefox on your system

* Go to the GVM login page:

URL: https://10.10.55.4:9392

* Enter the credentials:

Username: admin

Password: Secure-gvm!

* Click Login to access the dashboard.

Step 2: Navigate to Scan Reports

* Once logged in, locate the "Scans" menu on the left panel.

* Click on "Reports" under the "Scans" section to view the list of completed vulnerability scans.

Step 3: Identify the Most Recent Scan

* Check the date and time of the last completed scan, as your colleague likely used the latest one.

* Click on the Report Name or Date to open the detailed scan results.

Step 4: Filter for CVE-2021-22145

* In the report view, locate the "Search" or "Filter" box at the top.

* Enter the CVE identifier:

CVE-2021-22145

* Press Enter to filter the vulnerabilities.

Step 5: Analyze the Results

* The system will display any host(s) affected by CVE-2021-22145.

* The details will typically include:

* Host IP Address

* Vulnerability Name

* Severity Level

* Vulnerability Details

Example Display:

Host IP

Vulnerability ID

CVE

Severity

192.168.1.100

SomeVulnName

CVE-2021-22145

High

Step 6: Verify the Vulnerability

* Click on the host IP to see the detailed vulnerability description.

* Check for the following:

* **Exploitability:** Proof that the vulnerability can be actively exploited.

* **Description and Impact:** Details about the vulnerability and its potential impact.

* **Fixes/Recommendations:** Suggested mitigations or patches.

Step 7: Note the Vulnerable Host IP

* The IP address that appears in the filtered list is the vulnerable machine.

Example Answer:

The host IP of the machine vulnerable to CVE-2021-22145 is: 192.168.1.100

Step 8: Take Immediate Actions

* Isolate the affected machine to prevent exploitation.

* Patch or update the software affected by CVE-2021-22145.

* Perform a quick re-scan to ensure that the vulnerability has been mitigated.

Step 9: Generate a Report for Documentation

* Export the filtered scan results as a PDF or HTML from the GVM.

* Include:

* Host IP

* CVE ID

* Severity and Risk Level

* Remediation Steps

Background on CVE-2021-22145:

* This CVE is related to a vulnerability in certain software, often associated with improper access control or authentication bypass.

* Attackers can exploit this to gain unauthorized access or escalate privileges.

NEW QUESTION # 88

Which of the following is a type of middleware used to manage distributed transactions?

- A. Message-oriented middleware
- B. Remote procedure call
- C. Object request broker
- **D. Transaction processing monitor**

Answer: D

Explanation:

A Transaction Processing Monitor (TPM) is a type of middleware that manages and coordinates distributed transactions across multiple systems.

* **Core Functionality:** Ensures data consistency and integrity during complex transactions that span various databases or applications.

* **Transactional Integrity:** Provides rollback and commit capabilities in case of errors or failures.

* **Common Use Cases:** Banking systems, online booking platforms, and financial applications.

Incorrect Options:

* **A. Message-oriented middleware:** Primarily used for asynchronous message processing, not transaction management.

* **C. Remote procedure call (RPC):** Facilitates communication between systems but does not manage transactions.

* D. Object request broker:Manages object communication but lacks transaction processing capabilities.
Exact Extract from CCOA Official Review Manual, 1st Edition:
Refer to Chapter 7, Section "Middleware Components," Subsection "Transaction Processing Middleware" - TPMs handle distributed transactions to ensure consistency across various systems.

NEW QUESTION # 89

Which of the following Is a control message associated with the Internet Control Message Protocol (ICMP)?

- A. Webserver Is available.
- B. 404 is not found.
- C. Destination is unreachable.
- D. Transport Layer Security (TLS) protocol version Is unsupported.

Answer: C

Explanation:

TheInternet Control Message Protocol (ICMP)is used forerror reporting and diagnosticsin IP networks.

* Control Messages:ICMP messages inform the sender about network issues, such as:

* Destination Unreachable:Indicates that the packet could not reach the intended destination.

* Echo Request/Reply:Used inpingto test connectivity.

* Time Exceeded:Indicates that a packet'sTTL (Time to Live)has expired.

* Common Usage:Troubleshooting network issues (e.g.,pingandtraceroute).

Other options analysis:

* A. TLS protocol version unsupported:Related to SSL/TLS, not ICMP.

* C. 404 not found:An HTTP status code, unrelated to ICMP.

* D. Webserver is available:A general statement, not an ICMP message.

CCOA Official Review Manual, 1st Edition References:

* Chapter 4: Network Protocols and ICMP:Discusses ICMP control messages.

* Chapter 7: Network Troubleshooting Techniques:Explains ICMP's role in diagnostics.

NEW QUESTION # 90

A small organization has identified a potential risk associated with its outdated backup system and has decided to implement a new cloud-based real-time backup system to reduce the likelihood of data loss. Which of the following risk responses has the organization chosen?

- A. Risk transfer
- B. Risk avoidance
- C. Risk acceptance
- D. Risk mitigation

Answer: D

Explanation:

The organization is implementing anew cloud-based real-time backup systemto reduce the likelihood of data loss, which is an example ofrisk mitigationbecause:

* Reducing Risk Impact:By upgrading from an outdated system, the organization minimizes the potential consequences of data loss.

* Implementing Controls:The new backup system is aproactive control measuredesigned to decrease the risk.

* Enhancing Recovery Capabilities:Real-time backups ensure that data remains intact and recoverable even in case of a failure.

Other options analysis:

* B. Risk avoidance:Involves eliminating the risk entirely, not just reducing it.

* C. Risk transfer:Typically involves shifting the risk to a third party (like insurance), not implementing technical controls.

* D. Risk acceptance:Involves acknowledging the risk without implementing changes.

CCOA Official Review Manual, 1st Edition References:

* Chapter 5: Risk Management:Clearly differentiates between mitigation, avoidance, transfer, and acceptance.

* Chapter 7: Backup and Recovery Planning:Discusses modern data protection strategies and their risk implications.

NEW QUESTION # 91

myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt, myportal.utt.edu.tt,
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