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Cisco Certified Support Technician (CCST) Cybersecurity 100-160 Official Cert Guide

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Cisco 100-160 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Basic Network Security Concepts: This section of the exam measures the skills of a Network Defender and focuses on understanding network-level protections, including firewalls, VPNs, and intrusion detection prevention systems, providing insight into how threats are mitigated within network environments.
Topic 2	<ul style="list-style-type: none"> Endpoint Security Concepts: This section of the exam measures the skills of an Endpoint Security Specialist and includes securing individual devices, understanding protections such as antivirus, patching, and access control at the endpoint level, essential for maintaining device integrity.
Topic 3	<ul style="list-style-type: none"> Essential Security Principles: This section of the exam measures the skills of a Cybersecurity Technician and covers foundational cybersecurity concepts such as the CIA triad (confidentiality, integrity, availability), along with basic threat types and vulnerabilities, laying the conceptual groundwork for understanding how to protect information systems.
Topic 4	<ul style="list-style-type: none"> Vulnerability Assessment and Risk Management: This section of the exam measures the skills of a Risk Management Analyst and entails identifying and assessing vulnerabilities, understanding risk priorities, and applying mitigation strategies that help manage threats proactively within an organization's systems
Topic 5	<ul style="list-style-type: none"> Incident Handling: This section of the exam measures the skills of an Incident Responder and centers on recognizing security incidents, responding appropriately, and containing threats—forming the essential foundation of incident response procedures.

Cisco Certified Support Technician (CCST) Cybersecurity Sample Questions (Q218-Q223):

NEW QUESTION # 218

What is the primary purpose of packet captures in identifying suspicious events in a cybersecurity context?

- A. To monitor network devices and perform vulnerability assessments.
- B. To analyze network traffic and identify potential indicators of compromise.**
- C. To backup network configurations and restore them in case of failure.
- D. To encrypt network traffic and secure sensitive information.

Answer: B

Explanation:

Packet captures are used to capture and record network traffic, allowing cybersecurity professionals to inspect the packets and analyze the network traffic for potential indicators of compromise (IOCs). By examining the packets, analysts can check for suspicious patterns or anomalies, identify malicious payloads, or detect unauthorized access attempts. Packet captures are a valuable tool in incident response, as they help identify and investigate suspicious events in a network.

NEW QUESTION # 219

Which of the following is a common security threat that targets web applications?

- A. Distributed Denial of Service (DDoS)
- B. SQL injection**
- C. Man-in-the-middle attack
- D. DNS poisoning

Answer: B

Explanation:

Option 1: Correct: SQL injection is a common security threat that targets web applications. It involves inserting malicious SQL code into input fields to manipulate the application's database and gain unauthorized access or retrieve sensitive information.

Option 2: Incorrect: DNS poisoning is not a common security threat that targets web applications. It involves corrupting the DNS cache and redirecting users to malicious websites.

Option 3: Incorrect: Man-in-the-middle attack is not a common security threat that specifically targets web applications. It involves intercepting communication between two parties and can affect various types of network communication.

Option 4: Incorrect: Distributed Denial of Service (DDoS) is not a common security threat that targets web applications specifically. It involves overwhelming a target system with a flood of traffic from multiple sources, rendering it inaccessible.

NEW QUESTION # 220

Which encryption algorithm is commonly used for securing wireless network communication?

- A. SSL
- B. RC4
- C. DES
- D. AES

Answer: D

Explanation:

AES (Advanced Encryption Standard) is widely used for securing wireless network communications. It is considered a strong and secure symmetric encryption algorithm that provides confidentiality and data integrity in wireless networks. AES has become the standard encryption algorithm for securing Wi-Fi networks (WPA2).

NEW QUESTION # 221

You are collecting data after a suspected intrusion on the local LAN.

You need to capture incoming IP packets to a file for an investigator to analyze.

Which two tools should you use? (Choose 2.)

- A. Wireshark
- B. tcpdump
- C. Nmap
- D. netstat

Answer: A,B

Explanation:

The CCST Cybersecurity Study Guide specifies that both Wireshark and tcpdump are packet capture tools that can record network traffic to a file for later analysis.

"Wireshark provides a graphical interface for packet capture and analysis. Tcpdump is a command-line tool that captures packets for detailed offline review." (CCST Cybersecurity, Incident Handling, Network Traffic Analysis section, Cisco Networking Academy) A is correct: Wireshark is widely used for packet capture and analysis.

B is correct: tcpdump is a CLI-based packet capture tool.

C (Nmap) is for network scanning, not packet capture.

D (netstat) displays network connections and ports but does not capture packets.

NEW QUESTION # 222

What is the purpose of app distribution in cybersecurity?

- A. Deploying network firewalls
- B. Testing the security of applications
- C. **Distributing security patches and updates**
- D. Configuring access control policies

Answer: C

Explanation:

App distribution in cybersecurity refers to the process of distributing security patches and updates for applications. This is vital in maintaining the security of software and preventing vulnerabilities from being exploited. By regularly distributing and installing updates, organizations can address known security flaws, improve application performance, and ensure that their systems remain protected against emerging threats.

NEW QUESTION # 223

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