

Cisco 100-160 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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.
Topic 3	<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 4	<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 5	<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.

Cisco Certified Support Technician (CCST) Cybersecurity Sample Questions (Q25-Q30):

NEW QUESTION # 25

What is the purpose of a firewall in a network security infrastructure?

- A. To protect against hardware failures and provide redundancy.
- B. To authenticate users and control access to a network.
- **C. To monitor and filter incoming and outgoing network traffic.**
- D. To encrypt data transmitted over the network.

Answer: C

Explanation:

A firewall is a network security device that monitors and filters network traffic based on a set of predefined rules. It acts as a barrier between an internal network and external networks, allowing or blocking traffic based on specific criteria, such as source IP address, destination port, protocol, etc.

NEW QUESTION # 26

Which protocol is commonly used for remote user authentication and authorization?

- A. LDAP
- B. TACACS+
- **C. RADIUS**
- D. SSH

Answer: C

Explanation:

RADIUS (Remote Authentication Dial-In User Service) is a widely-used protocol for remote user authentication and authorization. It provides centralized authentication, authorization, and accounting management for users who dial in or connect remotely to a network. RADIUS uses a client-server model where the client (network access server) forwards user authentication requests to the RADIUS server for validation.

NEW QUESTION # 27

The company web server collects information through a form. The form is accessed by using port 80. The form content is transferred to an encrypted database for storage. You are investigating a complaint that the form content has been compromised. What is the cause of the security breach?

- A. The web browser used to access the site was not updated to the latest version.
- B. The data was transferred to the database using a nonsecure protocol.
- C. The database was compromised.
- **D. The website was accessed using HTTP, which is an unencrypted protocol.**

Answer: D

Explanation:

The CCST Cybersecurity Study Guide explains that HTTP (port 80) transmits data in cleartext, making it susceptible to interception. Even if data is stored securely in an encrypted database, sensitive information can be compromised during transmission if HTTPS (port 443) is not used.

"When HTTP is used instead of HTTPS, all form inputs and transmitted data are sent in plaintext over the network, where they can be intercepted by attackers." (CCST Cybersecurity, Basic Network Security Concepts, Secure Protocols section, Cisco Networking Academy)

NEW QUESTION # 28

Which of the following is an example of a web application vulnerability that can be exploited by an attacker?

- A. Buffer overflow
- **B. Cross-site scripting (XSS)**
- C. Network latency
- D. Disk fragmentation

Answer: B

Explanation:

Cross-site scripting (XSS) is a web application vulnerability where an attacker injects malicious code into a trusted website, which then executes on the victim's browser. This vulnerability can allow attackers to steal sensitive information, perform phishing attacks, or deliver malware. Disk fragmentation, network latency, and buffer overflow are not examples of web application vulnerabilities; they refer to other aspects of computing performance and security.

NEW QUESTION # 29

A restaurant installs a second wireless router that only employees can use. Which statement describes how to securely configure the new router?

- A. Configure a higher signal strength to allow coverage in the parking lot.
- B. Configure the SSID with the same SSID used by the customer router.
- **C. Configure the SSID with broadcast disabled.**
- D. Configure the new router to filter IP addresses.

Answer: C

Explanation:

The CCST Cybersecurity Study Guide explains that disabling SSID broadcast hides the network from casual scanning, adding a layer of obscurity. While not a complete security measure, when combined with WPA2/WPA3 encryption and strong passwords, it can help protect private wireless networks, especially in environments with separate employee and guest access.

"Disabling SSID broadcast can reduce the visibility of a wireless network, making it less likely to be detected by casual attackers. This should be combined with strong encryption and authentication." (CCST Cybersecurity, Basic Network Security Concepts, Wireless Security section, Cisco Networking Academy) A (IP filtering) provides limited protection and is harder to manage for employee devices.

B is correct: Disabling SSID broadcast adds an extra layer of obscurity for the employee network.

C would make the network easier to access from outside the premises, which is less secure.

D would cause network conflicts and make segmentation impossible.

NEW QUESTION # 30

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