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WGU D315 Network and Security foundation Essential Test Toolkit Exam Questions and Approved with Distinction Marking Scheme Latest 2024/2025

Media Access Control - **correct answer** MAC

Each NIC or network interface card has a unique network address called what? - **correct answer** MAC address

What is the length of a MAC address? - **correct answer** 6 bytes or 48 bits

A MAC address is displayed in which format? - **correct answer** 12 hexadecimal digits

The Organizationally Unique Identifier (OUI) is which digits of the MAC address? - **correct answer** The first six digits

Indicates the vendor of the network interface - **correct answer** organizationally unique identifier (OUI)

ping - **correct answer** Tests connectivity to other hosts using ICMP

ipconfig - **correct answer** IP, subnet mask, and default gateway for each network adapter. /all will show more info.

ifconfig - **correct answer** Configure kernel network interfaces (make changes); shows IP, subnet mask, gateway, MAC.

traceroute/tracert - **correct answer** Traces route an IP packet takes

tracepath - **correct answer** Displays path taken by a packet to destination (can be used by any user)

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WGU Network-and-Security-Foundation Sample Questions (Q20-Q25):

NEW QUESTION # 20

Which scenario demonstrates a violation of the integrity component of the CIA triad?

- A. A company has an unacceptably high network downtime during high-traffic time periods.
- B. A network's domain name system server has not been fully operational for one month.
- **C. An employee accidentally modified a customer account incorrectly.**
- D. A company stores sensitive customer data without access controls.

Answer: C

Explanation:

A violation of integrity occurs when data is modified incorrectly, whether intentionally or by accident. In this case, an employee modifying a customer account incorrectly demonstrates a breach of data integrity.

* A and C relate to availability, as they describe system downtime.

* D relates to confidentiality, as it describes improper data protection.

NEW QUESTION # 21

A person is troubleshooting a network issue and needs to see details about network adapters and their settings.

Which Windows command should be used?

- A. nslookup
- B. traceroute
- **C. ipconfig**
- D. netstat

Answer: C

Explanation:

The ipconfig command in Windows provides details about a computer's network adapters, including IP addresses, subnet masks, default gateways, and DNS settings. It is particularly useful for troubleshooting connectivity issues.

* traceroute (or tracert in Windows) is used to trace the path packets take to a destination.

* nslookup is used for querying DNS records.

* netstat provides details about active network connections and listening ports, but not adapter configurations.

NEW QUESTION # 22

A company is specifically worried about buffer overflow attacks.

Which strategy should be used as a mitigation against this type of attack?

- **A. Detect code vulnerabilities**
- B. Disable caching
- C. Implement intrusion protection software
- D. Use server-side validation

Answer: A

Explanation:

Detecting code vulnerabilities through regular security audits, code reviews, and static analysis tools helps prevent buffer overflow attacks. Developers should implement bounds checking, memory-safe programming languages, and input validation to mitigate risks.

* Disabling caching does not prevent buffer overflow attacks.

- * Server-side validation helps with input security but does not directly address buffer overflows.
- * Intrusion protection software may detect attacks but does not prevent vulnerabilities in code.

NEW QUESTION # 23

What is the TCP/IP layer that includes the User Datagram Protocol (UDP)?

- A. Network or internet
- **B. Transport**
- C. Physical or network access
- D. Application

Answer: B

Explanation:

The Transport layer in the TCP/IP model includes the User Datagram Protocol (UDP) and Transmission Control Protocol (TCP). UDP is a connectionless protocol used for fast, lightweight data transmission where reliability is not the priority (e.g., video streaming, VoIP).

- * Application layer handles end-user services but not transport mechanisms.
- * Network or internet layer deals with IP addressing and routing, not UDP.
- * Physical or network access layer concerns hardware transmission methods.

NEW QUESTION # 24

An organization is the victim of an attack in which an attacker intercepts messages between two parties before transferring them to the correct destination.

What is the type of cyberattack described in this scenario?

- A. Social engineering
- B. Pharming
- **C. Man-in-the-middle attack**
- D. Credential stuffing

Answer: C

Explanation:

A man-in-the-middle (MITM) attack occurs when an attacker secretly intercepts and relays communication between two parties. This allows the attacker to steal data, modify messages, or inject malicious content without the victims' knowledge.

- * Credential stuffing reuses stolen login credentials but does not involve interception.
- * Social engineering manipulates users rather than intercepting messages.
- * Pharming redirects users to fraudulent websites, but it does not intercept communication.

NEW QUESTION # 25

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