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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 (Q40-Q45):

NEW QUESTION # 40
Which layer of the OSI model includes the TCP?

- A. Application
- B. Transport
- C. Network
- D. Session

Answer: B

Explanation:
The Transport layer (Layer 4 of the OSI model) includes the Transmission Control Protocol (TCP), which provides reliable, connection-oriented communication. TCP ensures error-checking, sequencing, and retransmission of lost packets.
* Application layer deals with end-user protocols like HTTP and FTP.
* Session layer manages communication sessions but not transport protocols.
* Network layer focuses on IP addressing and routing, not transport mechanisms.

NEW QUESTION # 41
An organization has experienced injection attacks in the past and wants to take actions to mitigate this type of attack.
What should this organization do?

- A. Detect code vulnerabilities
- B. Use server-side validation
- C. Use Wi-Fi Protected Access 2 (WPA2)
- D. Decrease the wireless range

Answer: B

Explanation:
Server-side validation helps prevent SQL injection, command injection, and other input-based attacks by ensuring that user input is properly sanitized before being processed by the system. Parameterized queries and input validation should also be implemented to further reduce risk.
* Detecting code vulnerabilities is helpful but not a direct mitigation technique.
* Decreasing wireless range does not affect injection attacks.
* Using WPA2 secures wireless networks but does not prevent injection attacks.

NEW QUESTION # 42
A computer network has software that tracks successful and unsuccessful connection attempts to the network in order to better identify attacks.
Which network security concept does this scenario address?

- A. Authorization
- B. Availability
- C. Accounting
- D. Authentication

Answer: C

Explanation:

Accounting(also known asauditing or logging) is a network security concept that tracks user activities, includingsuccessful and failed authentication attempts, system changes, and resource access. This helps in detecting and mitigating security breaches.
* Authenticationverifies user identity but does not track activity.
* Availabilityensures systems remain operational.
* Authorizationcontrols user permissions but does not log activities.

NEW QUESTION # 43
Which component of the IT securityCIA triadis a driver for enabling data encryption?

- A. Confidentiality
- B. Availability
- C. Application
- D. Integrity

Answer: A

Explanation:
Confidentialityensures that sensitive information is protected from unauthorized access.Encryptionis a key mechanism used to maintain confidentiality by converting readable data into a secure format that can only be accessed with a decryption key.
* Integrityensures data is not altered improperly but does not directly relate to encryption.
* Availabilityfocuses on system uptime and accessibility.
* Applicationis not a component of the CIA triad.

NEW QUESTION # 44
An organization is the victim of an attack in which an attacker targets a computer to use as a tool to infect and target other computers in a larger attack.
What is the purpose of this attack?

- A. Data modification
- B. Data export
- C. Denial of availability
- D. Launch point

Answer: D

Explanation:
Alaunch point attackoccurs when an attacker compromises a system and uses it as a foothold to spread malware, conduct reconnaissance, or launch further attacks against other systems. Botnets and command-and- control (C2) servers operate this way.
* Denial of availabilitydisrupts service, but does not spread attacks.
* Data exportsteals data instead of launching further attacks.
* Data modificationchanges existing information but does not involve propagating threats.

NEW QUESTION # 45
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