

**? What is network sniffing?**

- A. Monitoring and capturing data packets
- B. Encrypting network traffic
- C. Blocking unauthorized access
- D. Routing packets

**Answer: A. Monitoring and capturing data packets**

**? Password sniffing is problematic when passwords are transmitted in \_\_\_\_.**

- A. ciphertext
- B. plaintext
- C. hashes
- D. signatures

**Answer: B. plaintext**

**? Which encryption prevents password sniffing?**

- A. SSL/TLS
- B. HTTP
- C. FTP
- D. Telnet

**Answer: A. SSL/TLS**

**? What does a brute-force password attack do?**

- A. Tries common words
- B. Tries all possible permutations
- C. Uses precomputed hashes
- D. Intercepts passwords

**Answer: B. Tries all possible permutations**

**? A dictionary attack uses \_\_\_\_.**

- A. random characters
- B. rainbow tables
- C. a precompiled wordlist
- D. social engineering

**Answer: C. a precompiled wordlist**

**? A hybrid password attack combines \_\_\_\_ and \_\_\_\_.**

- A. brute-force and dictionary methods
- B. hashing and encryption
- C. poisoning and spoofing

D. phishing and vishing

**Answer: A. brute-force and dictionary methods**

? **What is a rainbow table attack?**

- A. Using social engineering
- B. Using precomputed hashes
- C. Capturing network packets
- D. Exploiting software bugs

**Answer: B. Using precomputed hashes**

? **Which tool is primarily for network sniffing?**

- A. Wireshark
- B. John the Ripper
- C. Metasploit
- D. Hydra

**Answer: A. Wireshark**

? **Which tool is a password cracker?**

- A. tcpdump
- B. Kismet
- C. John the Ripper
- D. Ettercap

**Answer: C. John the Ripper**

? **Client-side attacks often rely on \_\_\_\_.**

- A. social engineering
- B. SQL injection
- C. ARP spoofing
- D. DHCP spoofing

**Answer: A. social engineering**

? **Server-side attacks target \_\_\_\_.**

- A. user browsers
- B. hosting servers
- C. mobile devices
- D. printers

**Answer: B. hosting servers**

? **Spoofing is an attack that \_\_\_\_.**

- A. encrypts data
- B. assumes a false identity

- C. deletes files
- D. generates random passwords

**Answer: B. assumes a false identity**

? **Impersonation is a(n) \_\_\_\_ attack.**

- A. software-based
- B. network-based
- C. human-based
- D. hardware-based

**Answer: C. human-based**

? **Session hijacking exploits \_\_\_\_.**

- A. inactive sessions
- B. active sessions
- C. password files
- D. network logs

**Answer: B. active sessions**

? **ARP spoofing involves redirecting \_\_\_\_ to a wrong MAC address.**

- A. IP traffic
- B. email messages
- C. DNS queries
- D. DHCP requests

**Answer: A. IP traffic**

? **A man-in-the-middle attack \_\_\_\_.**

- A. blocks communications
- B. secretly relays and alters communications
- C. encrypts data in transit
- D. scans for open ports

**Answer: B. secretly relays and alters communications**

? **DNS spoofing modifies a DNS server's \_\_\_\_.**

- A. firmware
- B. routing table
- C. cache
- D. ACL

**Answer: C. cache**

? **DHCP spoofing allows an attacker to \_\_\_\_.**

- A. steal passwords

- B. assign IP addresses
- C. encrypt traffic
- D. block DHCP servers

**Answer: B. assign IP addresses**

**? Which tool can perform session hijacking?**

- A. Ettercap
- B. CookieCatcher
- C. Nmap
- D. Wireshark

**Answer: B. CookieCatcher**

**? Which tool is used for spoofing attacks?**

- A. Metasploit
- B. hping
- C. Cain & Abel
- D. All of the above

**Answer: D. All of the above**

**? A virus requires \_\_\_\_ to replicate.**

- A. user action
- B. self-execution
- C. network access
- D. root privileges

**Answer: A. user action**

**? A worm is \_\_\_\_ replicating.**

- A. user-initiated
- B. self-replicating
- C. file-attached
- D. scheduled

**Answer: B. self-replicating**

**? What type of malware displays unwanted advertisements?**

- A. Virus
- B. Worm
- C. Adware
- D. Spyware

**Answer: C. Adware**

? **Malware that secretly collects data is called \_\_\_\_.**

- A. Spyware
- B. Trojan
- C. Rootkit
- D. Worm

**Answer: A. Spyware**

? **A rootkit controls the system at \_\_\_\_.**

- A. application level
- B. user level
- C. lowest levels
- D. network level

**Answer: C. lowest levels**

? **A logic bomb is triggered by \_\_\_\_.**

- A. a user click
- B. a time or event
- C. an update
- D. network traffic

**Answer: B. a time or event**

? **Ransomware \_\_\_\_.**

- A. replicates like a worm
- B. restricts access and demands ransom
- C. displays ads
- D. collects keystrokes

**Answer: B. restricts access and demands ransom**

? **Malvertisement delivers malicious code via \_\_\_\_.**

- A. email attachments
- B. ads
- C. USB drives
- D. network shares

**Answer: B. ads**

? **Social engineering primarily exploits \_\_\_\_.**

- A. software vulnerabilities
- B. hardware flaws
- C. human trust

D. network protocols

**Answer: C. human trust**

? **Which technique involves looking over someone's shoulder to get information?**

A. Tailgating

B. Piggybacking

C. Shoulder surfing

D. Dumpster diving

**Answer: C. Shoulder surfing**

? **Dumpster diving is a social engineering attack that targets \_\_\_\_.**

A. live data

B. discarded information

C. network devices

D. Wi-Fi signals

**Answer: B. discarded information**

? **Pharming is related to \_\_\_\_.**

A. DNS spoofing

B. password cracking

C. packet sniffing

D. malware

**Answer: A. DNS spoofing**

? **What is tailgating in security?**

A. sniffing network traffic

B. following an authorized person into a restricted area

C. password cracking

D. phishing

**Answer: B. following an authorized person into a restricted area**

? **What is phishing?**

A. social engineering via email

B. brute-force attack

C. man-in-the-middle

D. spoofing

**Answer: A. social engineering via email**

? **Which encryption uses the same key for encryption and decryption?**

A. Asymmetric

B. Symmetric

- C. Hashing
- D. Digital signature

**Answer: B. Symmetric**

? **Asymmetric encryption uses \_\_\_\_ keys.**

- A. one
- B. two (public and private)
- C. three
- D. none

**Answer: B. two (public and private)**

? **Hashing transforms data into a \_\_\_\_-length value.**

- A. variable
- B. fixed
- C. random
- D. zero

**Answer: B. fixed**

? **Which technique provides non-repudiation?**

- A. Symmetric encryption
- B. Hashing
- C. Digital signature
- D. DNS filtering

**Answer: C. Digital signature**

? **A digital certificate is used to prove \_\_\_\_.**

- A. data integrity
- B. authenticity of an entity via PKI
- C. physical security
- D. network availability

**Answer: B. authenticity of an entity via PKI**

? **Which access control is enforced through policies and procedures?**

- A. Technical
- B. Physical
- C. Administrative
- D. Multifactor

**Answer: C. Administrative**

? **Preventing unauthorized entry into facilities is an example of \_\_\_\_ access control.**

- A. Technical

- B. Physical
- C. Administrative
- D. Logical

**Answer: B. Physical**

? **Technical access control includes \_\_\_\_.**

- A. encryption
- B. security guards
- C. policies
- D. building locks

**Answer: A. encryption**

? **In “AAA,” what does the first “A” stand for?**

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

**Answer: A. Authentication**

? **In “AAA,” what does the second “A” stand for?**

- A. Authentication
- B. Authorization
- C. Access control
- D. Accounting

**Answer: B. Authorization**

? **In “AAA,” what does the third “A” stand for?**

- A. Availability
- B. Access
- C. Accounting
- D. Administration

**Answer: C. Accounting**

? **Passwordless authentication means \_\_\_\_.**

- A. using multiple passwords
- B. signing in without a password
- C. using a PIN
- D. hashing passwords

**Answer: B. signing in without a password**



? Which encryption ensures confidentiality only?

- A. Hashing
- B. Symmetric encryption
- C. Digital signature
- D. DNS spoofing

**Answer: B. Symmetric encryption**

? Which technique ensures data integrity?

- A. Hashing
- B. Asymmetric encryption
- C. Administrative control
- D. Physical access control

**Answer: A. Hashing**

? Digital signatures are created using the sender's \_\_\_\_ key.

- A. public
- B. private
- C. symmetric
- D. hashing

**Answer: B. private**

? Public Key Infrastructure (PKI) manages \_\_\_\_.

- A. passwords
- B. digital certificates and keys
- C. network devices
- D. user accounts

**Answer: B. digital certificates and keys**