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QUESTION 1

A researcher has been analyzing large data sets for the last ten months. The researcher works with colleagues from other institutions and typically connects via SSH to retrieve additional data. Historically, this setup has worked without issue, but the researcher recently started getting the following message:

```
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@  WARNING: REMOTE HOST IDENTIFICATION HAS CHANGED!  @
@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
IT IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!
The fingerprint for the RSA key sent by the remote host is
SHA256:cBqYjal6ToV3jEIJHUSKtjjVziqnVd4Cz+lfhTM6+k4.
Please contact your system administrator.
RSA host key for 18.231.33.78 has changed and you have requested strict checking.
Host key verification failed.
```

Which of the following network attacks is the researcher MOST likely experiencing?

- A. MAC cloning
- B. Evil twin
- C. Man-in-the-middle
- D. ARP poisoning

Correct Answer: C

This is alarming because it could actually mean that you're connecting to a different server without knowing it. If this new server is malicious then it would be able to view all data sent to and from your connection, which could be used by whoever set up the server. This is called a man-in-the-middle attack. This scenario is exactly what the "WARNING: REMOTE HOST IDENTIFICATION HAS CHANGED!" message is trying to warn you about.

QUESTION 2

An external contractor, who has not been given information about the software or network architecture, is conducting a penetration test. Which of the following BEST describes the test being performed?

- A. Black box
- B. White box
- C. Passive reconnaissance
- D. Vulnerability scan

Correct Answer: A

QUESTION 3



Which of the following could an attacker use to overwrite instruction pointers in order to execute malicious code?

- A. Memory leak
- B. SQL injection
- C. Resource exhaustion
- D. Buffer overflow

Correct Answer: D

QUESTION 4

Exploitation of a system using widely known credentials and network addresses that results in DoS is an example of:

- A. improper error handling
- B. default configurations
- C. untrained users
- D. lack of vendor support

Correct Answer: B

QUESTION 5

When sending messages using symmetric encryption, which of the following must happen FIRST?

- A. Exchange encryption key
- B. Establish digital signatures
- C. Agree on an encryption method
- D. Install digital certificates

Correct Answer: C

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