WIFI HACKING 101

EXP.NO: 13 DATE:08-04-2025

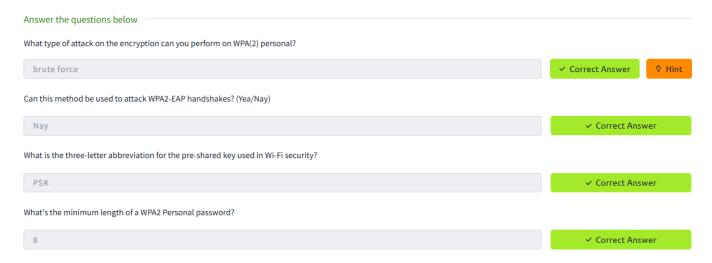
AIM:

To understand and demonstrate how to capture and crack WPA/WPA2 personal Wi-Fi passwords using Aircrack-ng tools.

ALGORITHM:

- 1. Put the wireless interface into monitor mode.
- 2. Capture the 4-way handshake using airodump-ng.
- 3. (Optional) Deauthenticate a connected client to trigger handshake.
- 4. Use aircrack-ng with a wordlist to brute-force the password.
- 5. (Optional) Convert capture to HCCAPX format for GPU-based cracking with Hashcat.

OUTPUT:



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How do you put the interface "wlan0" into monitor mode with Aircrack tools? (Full command)	
airmon-ng start wlan0	✓ Correct Answer
What is the new interface name likely to be after you enable monitor mode?	
wlan0mon	✓ Correct Answer
What do you do if other processes are currently trying to use that network adapter?	
airmon-ng check kill	✓ Correct Answer
What tool from the aircrack-ng suite is used to create a capture?	
airodump-ng	✓ Correct Answer
What flag do you use to set the BSSID to monitor?	
bssid	✓ Correct Answer
And to set the channel?	
channel	✓ Correct Answer
And how do you tell it to capture packets to a file?	
-W	✓ Correct Answer
What flag do we use to specify a BSSID to attack?	
-b	✓ Correct Answer
What flag do we use to specify a wordlist?	
-W	✓ Correct Answer
How do we create a HCCAPX in order to use hashcat to crack the password?	
-j	✓ Correct Answer
Using the rockyou wordlist, crack the password in the attached capture. What's the password?	
greeneggsandham	✓ Correct Answer
Where is password cracking likely to be fastest, CPU or GPU?	
GPU	✓ Correct Answer

RESULT:

In this experiment, we demonstrated the process of capturing and cracking WPA2 Passwords using tools like Air cracking and Hashcat. The experiment also highlighted that GPU-based cracking is faster than CPU-based cracking.

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