Labs

back to dashboard

Monitor Mode Basics

EXPIRED

Monitor wireless traffic and filter out useful information

15-45 Minutes 250 Points 3/10 Difficulty

Start Stop

You have already completed this exercise.

Mission Statement Verify Flags New Terminal

Entering into monitor mode is one of the first few steps required to start Wireless Penetration Testing. No matter which toolset you use or which framework you go with. The wireless NIC has to be put into monitor mode to look for interesting packets in the air.

There are many types of packets, but you'll find the most useful ones to be the Management frames.

There are 12 management frame subtypes defined by 802.11-2007 standard. To complete this lab you'd need to use/identify a few Mgmt. Frames using aircrack-ng suite of tools. Frames like:

1. Probes Request/Response
2. Beacon
3. Association
4. Authentication

To actually look at the packet level of the Management frames you can use the following Wireshark filter after putting your card into monitor mode (`iwconfig wlan0 mode monitor`)

> wlan.fc.type_subtype == 4

This filter will help you see only the Probe request packets in Wireshark. To see Probe Response you can change `4` to `5`

For a handy list of Wireshark filters, follow here: https://www.semfionetworks.com/uploads/2/9/8/3/29831147/wireshark_802.11_filters_-_reference_sheet.pdf

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Mission Statement | Verify Flags | New Terminal

Hide Flags

1. What is the Encryption Cipher for `Airport WiFi` ?

WPA2 CCMP ✓ 20 Points

2. Which client/station is sending out the highest amount of data packets, and to which Access Point?

Pattern: `Client MAC : AP Name`

00:0D:93:82:36:3A:coherer ✓ 40 Points

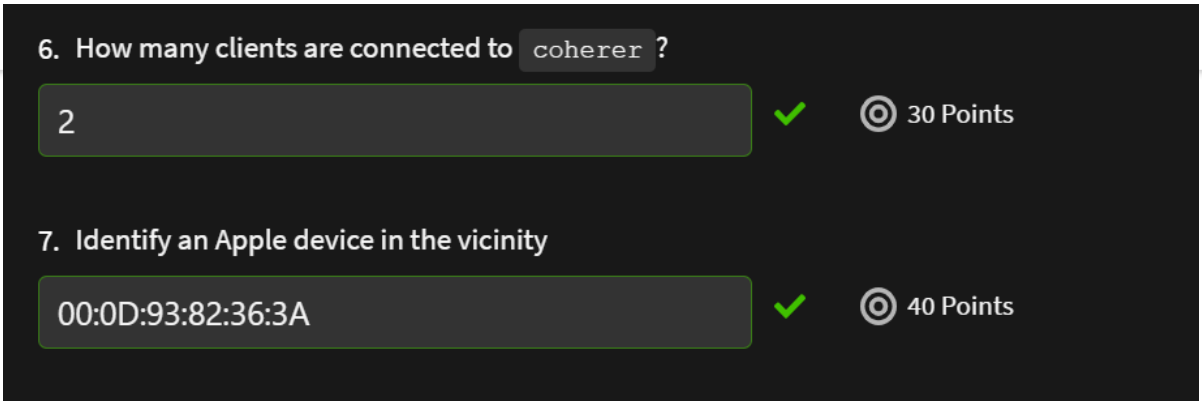
3. Which client had previously connected to `linksys` ?

00:0F:66:16:94:73 ✓ 40 Points

4. Which device's WPA handshake was captured during the sniffing?

00:0C:41:82:B2:55 ✓ 30 Points

5. Who is the manufacturer of the Access Point whose WPA handshake was captured?


6. How many clients are connected to coherer ?
2
30 Points
7. Identify an Apple device in the vicinity
00:0D:93:82:36:3A
40 Points