Name	Evil Twin Detection
URL	https://www.attackdefense.com/challengedetails?cid=1144
Туре	WiFi Pentesting: Traffic Analysis

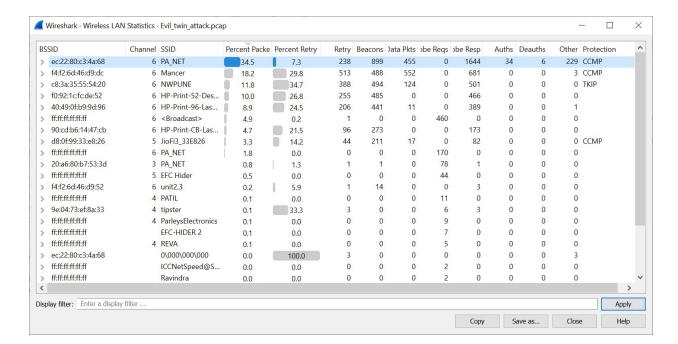
Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Q1. What is the SSID of the evil twin?

A. PA_NET

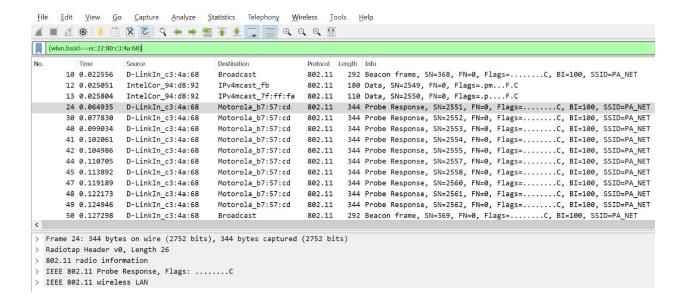
Solution:

PA_NET has the majority packets in the capture, so it is a good choice to start investigation.



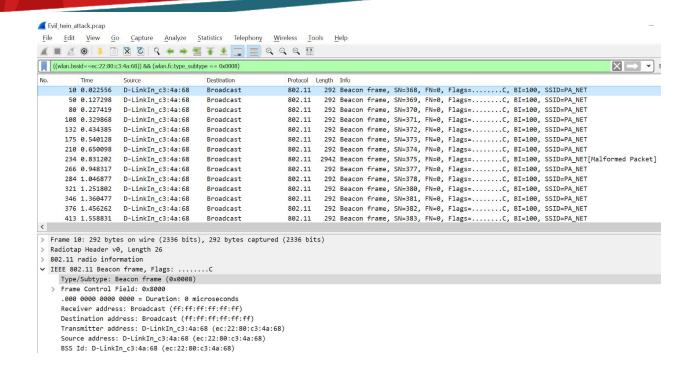
Filter all traffic related to the BSSID ec:22:80:c3:4a:68

Filter: wlan.bssid==ec:22:80:c3:4a:68

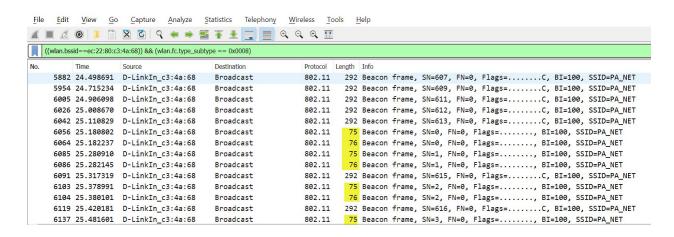


Looking for sequence number and packet size based anomalies will make more sense if we do it on

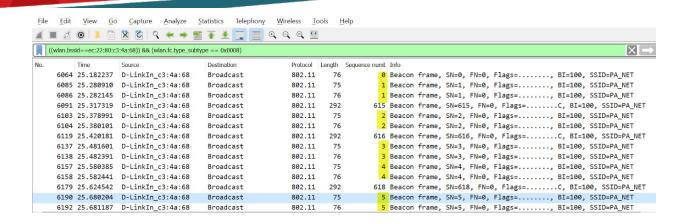
Filter: ((wlan.bssid==ec:22:80:c3:4a:68)) && (wlan.fc.type subtype == 0x0008)



On scrolling down, we can observe size based difference. Now this clearly indicates that there are two different machines/interfaces/setups for SSID PA_NET.



To confirm this, add sequence number as a column to the wireshark. We can observe two different sequence number running in parallel which confirms the suspicion



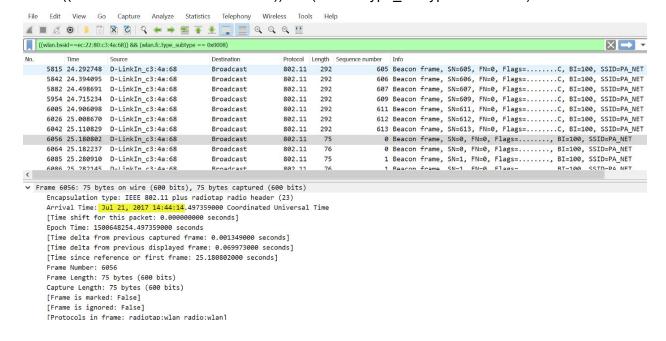
Q2. When did the evil twin AP started operating? Provide UTC time in DD-MM-YYYY HH:MM:SS format.

A. 21-07-2017 14:44:14

Solution:

Read the timestamp of the first beacon packet of that network.

Filter: ((wlan.bssid==ec:22:80:c3:4a:68)) && (wlan.fc.type subtype == 0x0008)





References:

- 1. Wireshark (https://www.wireshark.org/)
- 2. Pentester Academy WiFi course (https://www.pentesteracademy.com/course?id=9)