

Name	Impersonating Client Detection
URL	https://www.attackdefense.com/challengedetails?cid=1145
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.

A WiFi traffic capture is provided in the lab. We are told that one of the devices in the capture is using MAC cloning i.e. that device is impersonating another device which is also present in the vicinity.

**Objective:** Analyze the traffic using Wireshark and find the MAC address of the client which is being impersonated?

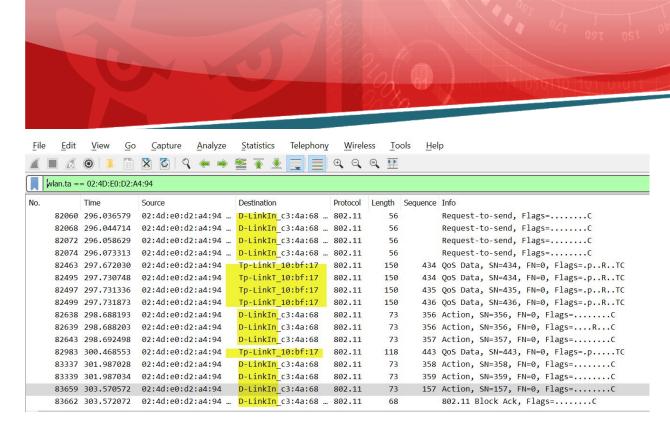
A. 02:4D:E0:D2:A4:94

Solution:

All clients need to be checked one by one for the anomalies.

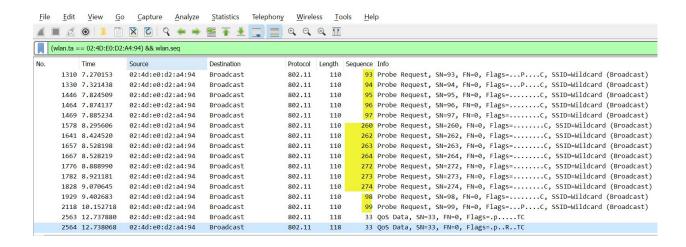
When we filter the traffic for client 02:4D:E0:D2:A4:94, it is evident that the same MAC is associated with two BSSIDs at the same time which is not possible. So, it is a clear case of client MAC impersonation.

Filter: wlan.ta == 02:4D:E0:D2:A4:94



Also apply the sequence number field filter to look sequence number based anomalies.

Filter: (wlan.ta == 02:4D:E0:D2:A4:94) && wlan.seq



We can observe two different sequences in probe requests.



## References:

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