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PATURED TEAM LABS ATTACKDEFENSE LABS
RITAINING COURSES ACCESS POINT PENTESTER
TEAM LABSPENTESTER TOOL BOY DO TO TO TEAM LAB
PATURED TEAM LABS RELUTION TO TEAM LAB
RITAINING COURSES ACCESS POINT PENTESTER
TOOL BOX TOOL BOY DO TO TO TEAM LAB
ATTACKDEFENSE LABS TRAINING COURSES PATURE CESS
PENTESTED LEGISLACIONAL TOOL BOX
TOOL BOX TOOL BOY PENTESTER ACADEMY
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ATTACKDEFENSE LABS
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WORLD-CLASS TRAINERS
TOOL BOX WORLD-CI
TRAINING
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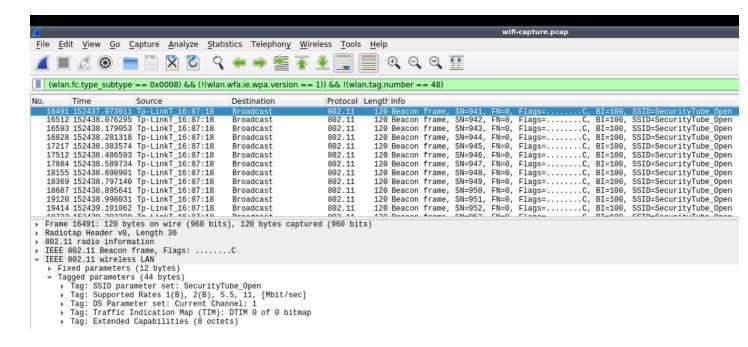
Name	WiFi Security: Traffic Analysis I
URL	https://www.attackdefense.com/challengedetails?cid=1141
Туре	WiFi Pentesting: Traffic Analysis

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 name of the Open (No Security) SSID present in the packet dump?

A. SecurityTube_Open

Filter: (wlan.fc.type_subtype == 0x0008) && (!(wlan.wfa.ie.wpa.version == 1)) && !(wlan.tag.number == 48)



Here tag 48 refers to RSN IE.

```
ag Number: RSN Information (48)
     Tag length: 24
     RSN Version: 1
   ▶ Group Cipher Suite: 00:0f:ac (Ieee 802.11) TKIP
     Pairwise Cipher Suite Count: 2
   Pairwise Cipher Suite List 00:0f:ac (Ieee 802.11) TKIP 00:0f:ac (Ieee 802.11) AES (CCM)
     ▼ Pairwise Cipher Suite: 00:0f:ac (Ieee 802.11) TKIP
           Pairwise Cipher Suite OUI: 00:0f:ac (Ieee 802.11)
          Pairwise Cipher Suite type: TKIP (2)
     ▼ Pairwise Cipher Suite: 00:0f:ac (Ieee 802.11) AES (CCM)
          Pairwise Cipher Suite OUI: 00:0f:ac (Ieee 802.11)
           Pairwise Cipher Suite type: AES (CCM) (4)
  Auth Key Management (AKM) Suite Count: 1

- Auth Key Management (AKM) List 00:0f:ac (Ieee 802.11) PSK
     Auth Key Management (AKM) Suite: 00:0f:ac (Ieee 802.11) PSK
   RSN Capabilities: 0x0000
```

And, wlan.wfa.ie.wpa.version == 1 is to filter put a vendor IE

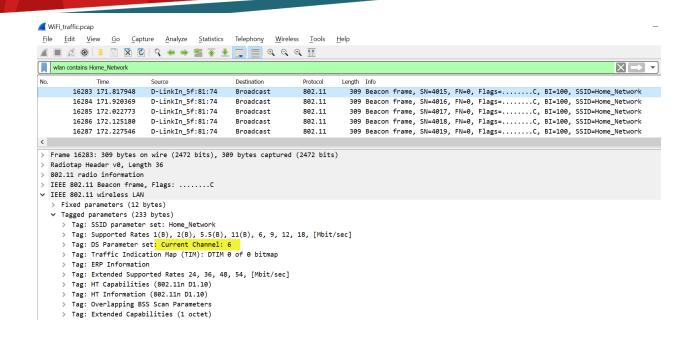
```
Tag: Vendor Specific: Microsoft Corp.: WPA Information Element
Tag Number: Vendor Specific (221)
Tag length: 28
OUI: 00:50:f2 (Microsoft Corp.)
Vendor Specific OUI Type: 1
Type: WPA Information Element (0x01)
WPA Version: 1
```

- Multicast Cipher Suite: 00:50:f2 (Microsoft Corp.) TKIP Unicast Cipher Suite Count: 2
- Unicast Cipher Suite List 00:50:f2 (Microsoft Corp.) AES (CCM) 00:50:f2 (Microsoft Corp.) TKIP Auth Key Management (AKM) Suite Count: 1
- ▶ Auth Key Management (AKM) List 00:50:f2 (Microsoft Corp.) PSK

Q2. The SSID 'Home_Network' is operating on which channel?

A. 6

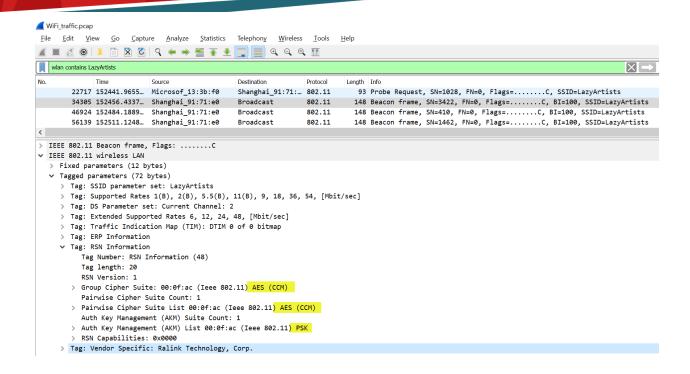
Filter: wlan contains Home_Network



Q3. Which security mechanism is configured for SSID 'LazyArtists'? Your options are: OPEN, WPA-PSK, WPA2-PSK.

A. WPA2-PSK

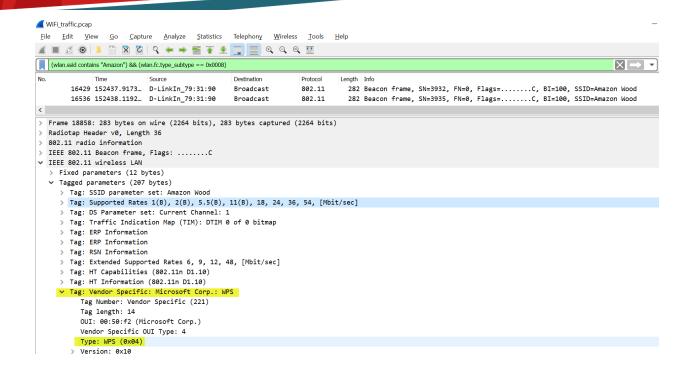
Filter: wlan contains LazyArtists



Q4. Is WiFi Protected Setup (WPS) enabled on SSID 'Amazon Wood'? State Yes or No.

A. Yes

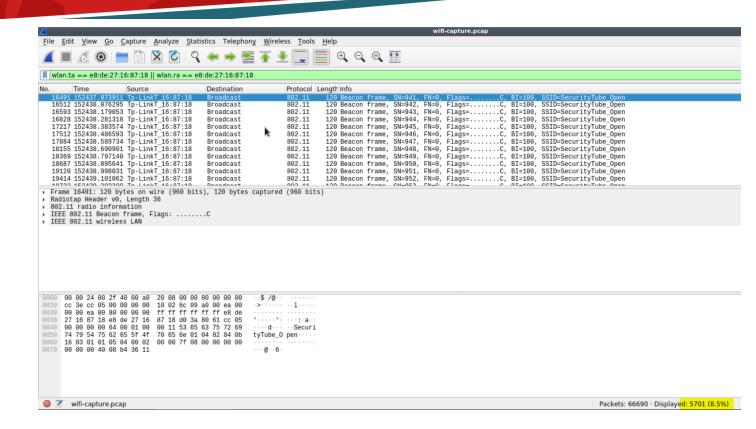
Filter: (wlan.ssid contains "Amazon") && (wlan.fc.type_subtype == 0x0008)



Q5. What is the total count of packets which were either transmitted or received by the device with MAC e8:de:27:16:87:18?

A: 5701

Filter: (wlan.ta == e8:de:27:16:87:18) || (wlan.ra == e8:de:27:16:87:18)

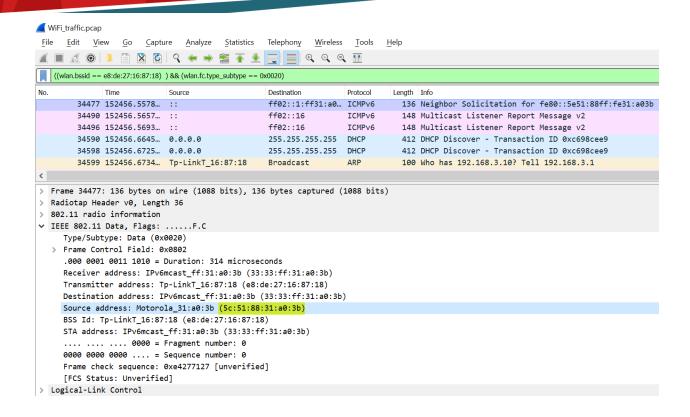


Q6. What is the MAC address of the station which exchanged data packets with SSID 'SecurityTube_Open'?

A: 5c:51:88:31:a0:3b

SSID SecurityTube_Open is hsoted on BSSID_e8:de:27:16:87:18.

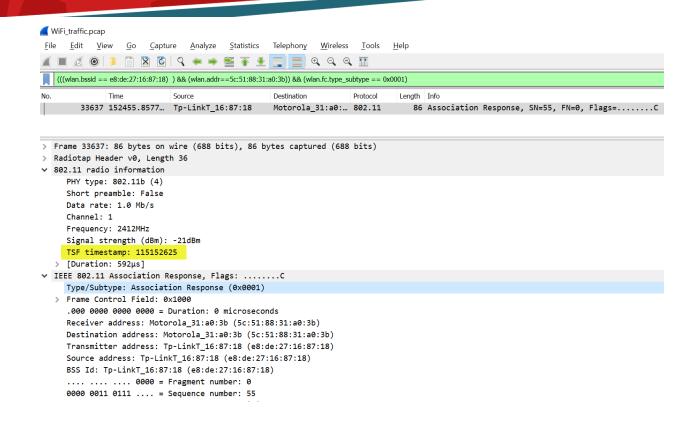
Filter: ((wlan.bssid == e8:de:27:16:87:18)) && (wlan.fc.type_subtype == 0x0020)



Q7. From the last question, we know that a station was connected to SSID 'SecurityTube_Open'. Provide TSF timestamp of the association response sent from the access point to this station.

A. 115152625

Filter: (((wlan.bssid == e8:de:27:16:87:18)) && (wlan.addr==5c:51:88:31:a0:3b)) && (wlan.fc.type_subtype == 0x0001)



References:

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