**Homework 7 Answers**

1) Yes, in HW7\_pcap2.pcap

2) HW7\_pcap1.pcap

3) HW7\_pcap3.pcap

4 – 5)

**Pcap 1**:

* Operation Channel: 3
* BSSID: 28:ee:52:4f:48:c4
* SSID: It’s easy as pi
* Passphrase: 3141592653589793238
* PMK: 9dac446248e6d09c96d6b0a856d89b422c1ac8501ae3906203a8aefb82668a70
* KCK: 8f42e03ea676a53476ca0d5df38ee13d
* KEK: e442efd5ba7b3c972f4dec9b20026ef0
* TK: decfd9e62f498fbb6bd2bf1ec9c671cd

**Command**: sudo aircrack-ng pcaps/HW7\_pcap1.pcap -w rockyou.txt

**Tools**: Wireshark and Python script from homework 6

**Time**: [00:09:49] 1421764/13427825 keys tested



A screenshot of a computer

Description automatically generated

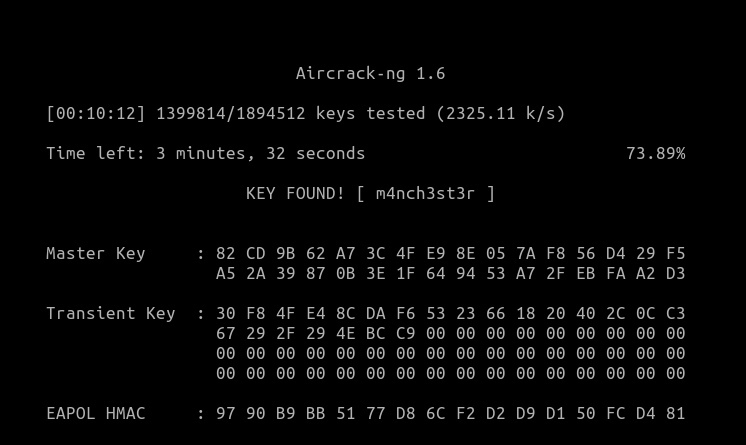
**Pcap 2**:

* Operation Channel: 9
* BSSID: 28:ee:52:4f:48:c4
* SSID: Home of the Mancunian
* Passphrase: m4nch3st3r
* PMK: 82cd9b62a73c4fe98e057af856d429f5a52a39870b3e1f649453a72febfaa2d3
* KCK: d093098965686abe4c9bc4f59ba6762b
* KEK: 484ccdc63e5e72d5521ace3606e53d67
* TK: 95a32093350c20c6c2cbf2f6fd4578ad

**Command**: sudo aircrack-ng pcaps/HW7\_pcap2.pcap -w pcap2\_pass.txt

**Tools**: Wireshark, Python script from homework 6 and password-extractor from lab 7

**Time**: [00:10:12] 1399814/1894512 keys tested



A screenshot of a computer

Description automatically generated

**Pcap 3**:

* Operation Channel: 40
* BSSID: 28:ee:52:4f:48:c6
* SSID: Wildcard (Broadcast)
* Passphrase: justiceleague
* PMK: ce45f24462724082f0c4ce89da7444c1936da8db26a3e20ce7296960d12288d8
* KCK: 78bc4f64b7f1b74f1fb17c418b0f8027
* KEK: e78f79d4882d3d668dca36ec59b046b4
* TK: d1a11f9682e34f49a741998fdff6eada

**Command**: sudo aircrack-ng pcaps/HW7\_pcap2.pcap -w pcap2\_pass.txt

**Tools**: Wireshark, Python script from homework 6 and password-extractor from lab 7

**Time**: [00:01:55] 270190/1081481 keys tested



A screenshot of a computer

Description automatically generated

**Bonus**:

1)

2)

3) PMKID

1. SSID:
2. Passphrase: