



The labs in this section cover basic commands/tools that can be used to connect to an existing WiFi network, create WiFi networks of different types of security schemes and bypass the MAC filter.

What will you learn?

- Connecting to WiFi networks using wpa_supplicant
- Creating WiFi networks to lure devices
- Bypassing MAC filter based access control

References:

1. Hostapd and wpa_supplicant? (<https://w1.fi/>)
2. Example hostapd.conf (<https://w1.fi/cgiit/hostap/plain/hostapd/hostapd.conf>)
3. Example supplicant.conf (https://w1.fi/cgiit/hostap/plain/wpa_supplicant/wpa_supplicant.conf)
4. Using WPA_supplicant to connect to WiFi (<https://www.linuxbabe.com/command-line/ubuntu-server-16-04-wifi-wpa-supPLICant>)

Labs Covered:

- [Hostapd: WEP HoneyPot](#)
In this lab, you will learn to create a WiFi network with WEP security scheme for a given SSID using the Hostapd tool. This same technique is used to create the WiFi honeypots to lure a probing/non-probing client.
- [Hostapd: WPA-PSK HoneyPot](#)
In this lab, you will learn to create a WiFi network with WPA-PSK security scheme for a given SSID using the Hostapd tool. This same technique is used to create the WiFi honeypots to lure a probing/non-probing client.
- [Hostapd: WPA2-PSK HoneyPot](#)
In this lab, you will learn to create a WiFi network with WPA2-PSK security scheme for a given SSID using the Hostapd tool. This same technique is used to create the WiFi honeypots to lure a probing/non-probing client.
- [WPA Supplicant: WEP Network](#)
In this lab, you will learn to connect a WiFi interface to a given WEP security scheme based WiFi network using the wpa_supplicant utility. This same technique is used by the Linux network manager to connect to the network.
- [WPA Supplicant: WPA-PSK Network](#)
In this lab, you will learn to connect a WiFi interface to a given WPA-PSK security scheme based WiFi network using the wpa_supplicant utility. This same technique is used by the Linux network manager to connect to the network.
- [WPA Supplicant: WPA2-PSK Network](#)
In this lab, you will learn to connect a WiFi interface to a given WPA2-PSK security scheme based WiFi network using the wpa_supplicant utility. This same technique is used by the Linux network manager to connect to the network.
- [Bypassing MAC Filter](#)
In this lab, you will learn to change the MAC address of a WiFi interface, to evade the MAC filtering based access control deployed on a WiFi network.
- [WPA Supplicant: WPA Enterprise](#)

- [Hostapd: Enhanced Open Honeypot](#)
In this lab, you will learn to create a WiFi network with WPA3-OWE security scheme for a given SSID using the Hostapd tool. This same technique is used to create the WiFi honeypots to lure a probing/non-probing client.
- [WPA Supplicant: Enhanced Open](#)
In this lab, you will learn to connect a WiFi interface to a given WPA3-OWE security scheme based WiFi network using the wpa_supplicant utility. This same technique is used by the Linux network manager to connect to the network.
- [Hostapd: WPA3-SAE Honeypot](#)
In this lab, you will learn to create a WiFi network with WPA3-SAE security scheme for a given SSID using the Hostapd tool. This same technique is used to create the WiFi honeypots to lure a probing/non-probing client.
- [WPA Supplicant: WPA3-SAE](#)
In this lab, you will learn to connect a WiFi interface to a given WPA3-SAE security scheme based WiFi network using the wpa_supplicant utility. This same technique is used by the Linux network manager to connect to the network.



Hostapd: WEP Honeypot

⚡ Start



Hostapd: WPA-PSK Honeypot

⚡ Start



Hostapd: WPA2-PSK Honeypot

⚡ Start



WPA Supplicant: WEP Network

⚡ Start



WPA Supplicant: WPA-PSK Network

⚡ Start



WPA Supplicant: WPA2-PSK Network

⚡ Start



Bypassing MAC Filter

⚡ Start



WPA Supplicant: WPA Enterprise

⚡ Start