

Pretty Fly For A WiFi

I Love My Neighbors

- Demo (Fail 😞)

What's the Issue?

- Public WiFi is free AND easy, but
- Prone to attack
 - MitM
 - MitB
 - Encryption cracking

Common Misconceptions

- Hiding the SSID
- MAC address filtering
- WEP is better than nothing
- WPA is enabled, no need to worry

Demos: Why you should worry about wireless security (Part 1)

- Wifite (Gaining access to WiFi)
 - WEP > WPA > WPS
 - Hydra (Brute force)
 - MAC spoofing

Demos: Why you should worry...

(Part 2)

- Man in the Middle (MitM)
 - Arpspoof > Driftnet (snooping)
- Man it the Browser (MitB)
 - BeEF > Metasploit

Now that you're concerned...

- Layered Defense
 - Always change default passwords
 - Change your SSID (something less appealing)
 - MAC filtering
 - Use WPA2 – AES (known flaws in TKIP, clear txt in wifi exchange)
 - Disable WPS (Wireless Protected Setup)
 - Enabled by default on most recent models to allow less technical folks to add new devices w/o long passphrase
 - Susceptible to brute force – allows attacker to obtain pre-shared keys
 - Instead of DHCP, use static IPs in a smaller CIDR block
- Use a VPN