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Subject: MCWN

Practical -3

Tools:

* Aircrack-ng
* Wireshark
* Security Software
* Kismet
* Airsnort
* inssider
* WiMAX
* Commview
* Network Interface Cards
* Network Operating system

Aircrack-ng

* Aircrack-ng is a network software suite consisting of a detector, packet sniffer, WEP and WPA/WPA2-PSK cracker and analysis tool for 802.11 wireless LANs.
* It works with any wireless network interface controller whose driver supports raw monitoring mode and can sniff 802.11a, 802.11b and 802.11g traffic.

Wireshark

* Wireshark is a free and open-source packet analyzer. It is used for network troubleshooting, analysis, software and communications protocol development, and education.

Security Software

* Protects the network from unauthorized access, attacks, and other security threats.

Kismet

* It is an open-source wireless network device detector, sniffer, GPS mapping tool and wireless intrusion detection system.
* It works with any wi-fi card which supports rfmon mode.

Airnsort

* AirSnort is free WiFi hacking software that captures the packets and tries to decrypt the keys.

InSSIDer

* inSSIDer is a popular Wi-Fi scanner for Microsoft Windows and OS X operating systems.
* It provides several different features, including locating open Wi-Fi access points, monitoring the signal strength of Wi-Fi networks and saving logs.

CommView

* CommView for WiFi is a packet analyzer software. It is GUI based and can monitor wireless 802.11 a/b/g/n networks.

WiMAX

* Worldwide Interoperability for Microwave Access, is a telecommunications technology aimed at providing wireless data over long distances in a variety of ways, from point-to-point links to full mobile cellular type access.

Network Interface Card

* Enable devices to connect to a wireless network.
* Each NIC has a MAC address, serving as a unique identifier on a network.

Network Operating System

* Manages and coordinates network resources, user profiles, security settings, and traffic prioritisation.