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### 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.