

- ▶ Packet Sniffing and Spoofing - Background Information

Address Resolution Protocol (ARP)

Determine MAC address for an IP address, within the same network.

Router

Connects different networks; decides how to move packets from one network to another network.

IP address (ipv4, 32bits) consists of two parts.

- ▶ network section (aka routing prefix, or network id, or network address)
- ▶ host section (aka host id, or host address)

To split an address into the two sections: subnet mask (aka netmask): bitwise AND operation between an IP address and the netmask, yields the network address.

- ▶ MAC (address): Media Access Control
- ▶ TCP: Transmission Control Protocol
- ▶ IP: Internet Protocol
- ▶ ICMP: Internet Control Message Protocol
- ▶ ARP: Address Resolution Protocol
- ▶ TTL: Time To Live.
- ▶ OSI Model: Open System Interconnection Model

A large portion of the material is adapted/copied from:

- ▶ Computer Security - A Hands-on Approach by Wenliang Du
- ▶ Understanding Networks and TCP/IP - by Gregory White