

Name _____

When communicating between machines on different networks, packets are sent via the default gateway on the way into and out of the LAN. The routing is done using (Layer 3) IP addresses. If the computers on the same network, then the IP address gets resolved to a (layer 2) Media Access Control (MAC) address to communicate with the computer. The MAC addresses are hard-coded onto the Ethernet card by the company that made the card.

The ability to retrieve and change your IP configuration is an important skill. In this lab, you will use the `ipconfig` command in Windows to view the configuration information. You will then use the Local Area Connection Properties window to change the IP address in Windows.

Computers use both MAC and IP addresses to communicate with one another across networks. In this lab, two computers will "talk" to each other via ping messages. You will then modify the Address Resolution Protocol (ARP) table of one of the computer to demonstrate the relationship between the IP and MAC addresses for a machine.

The ping (Packet Internet Groper) is a basic utility that is used for testing the connectivity between two computers. This message name was derived from the sound that sonar on a submarine makes and is used in a similar way. A "signal" or request is sent out to probe for the existence of the target along a fixed "distance." The distance between two computers can be measured using time to live (TTL). The TTL is decremented by at least one for each router it passes through, also known as a hand-off point or (HOP). It may be decremented by more than one if the router holds on to it for more than one second, which rarely is the case. Ping operates using Internet Control Message Protocol (ICMP) to test for connectivity; so, in case where ICMP is restricted, the ping utility may not be useful. Ping is usually implemented using ICMP echo messages, although other alternatives exist.

When you use the ping command in this lab, you will see that although you are using the IP address as the target of the ping, it is actually the MAC address that is used to communicate with that computer. IP addresses are used to transfer data from one network to another, whereas MAC addresses are used to send information from one device to another on the same network. It is ARP that resolves the IP addresses to their associated MAC addresses. ARP is a Transmission Control Protocol/Internet Protocol (TCP/IP) tool that is used to modify the ARP cache. The ARP cache contains recently resolved MAC addresses of IP hosts on the network. The utility used to view and modify the ARP protocol is also called arp.

Chapter 13 Lab Decoding Messages

Karin Nielsen-Saines



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