CCNA Discovery

Networking for Home and Small Businesses

Lab 3.3.6 Determine the IP Address of a Computer



Objective

• Use the **ipconfig /all** command to determine the IP address of a Windows XP host on an Ethernet network.

Background / Preparation

Every computer connected to the Internet has a unique identifier, called an IP address. IP addresses are displayed as four numbers, known as octets, separated by periods (example: 192.168.1.4). The **ipconfig /all** command displays your computer's IP address and information about the network. The following resources are required:

- A workstation that is attached to the local network and that has it's IP address already configured
- Access to the **Run** command

In this lab you will locate your computer's IP address to discover its unique number.

Step 1: Determine the IP address of the computer

a. From the Windows XP desktop, click the **Start** button, and then click **Run**.



b. In the Run dialog box, type **cmd** then click the **OK** button.



c. At the command prompt, type **ipconfig /all** and press Enter.



d. The **ipconfig /all** command then displays a list of information about your computer's IP configuration. An example is shown in the following figure. The information displayed for your computer will be different.

```
C:\>ipconfig /all
Windows IP Configuration
        Host Name .
                                                22A1279F7EE1496
                                              :
         Primary Dns Suffix . .
                                              :
                                  -
                                     -
                                       .
                                         .
                                            -
        Node Type . . . .
IP Routing Enabled.
WINS Proxy Enabled.
                                  .
                                     -
                                         . . :
                                                Hybrid
                            . . .
                                       -
                                              :
                                                No
                                 -
                                   -
                                     .
                                       -
                                         .
                                              :
                                                No
                              -
Ethernet adapter Local Area Connection:
        Connection-specific DNS Suffix . :
        Description . . . . . . . . . . . Realtek RTL8139/810x Family Fast Et
ernet NIC
        Physical Address. . . . . . . . .
                                                00-01-4A-20-5D-F2
        Dhcp Enabled.
                                                Yes
                                              :
                                         -
        Autoconfiguration Enabled .
                                              : yes
192.168.1.100
                                         .
                                            -
        IP Address. . . . . . . . .
                                         .
                                            -
                                       .
                                                255.255.255.0
        Subnet Mask .
                                              =
                                            -
                         -
                                       .
                                         .
        Default Gateway . . . . .
                                         . .
                                              :
                                                192.168.1.1
                                       -
        DHCP Server . . .
                                                192.168.1.1
24.116.221.232
                                              :
                                         -
        DNS Servers
                          - -
                                              :
                                                24.116.2.34
                                                Thursday, September 21, 2006 4:33:2:
        Lease Obtained. . . . . . . .
                                         . . :
 PM
        Lease Expires
                                   . . . . : Friday, September 22, 2006 4:33:21
```

e. Locate the IP address and record the finding.

IP address

f. Why is it important that a computer get an IP address?