7.3.3 Lab: Fix a Network Connection

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Time Spent: 09:19

Score: 100%

Task Summary

Required Actions

✓ Plug the workstation into the network

✓ Configure TCP/IP settings   Hide Details

    ✓ Configure a valid IP address
    ✓ Use 255.255.255.0 for the subnet mask
    ✓ Use 192.168.0.5 for the default gateway
    ✓ Configure 163.128.80.93 or 163.128.78.93 as the preferred DNS server

Explanation

Complete this lab as follows:

1. Verify the problem.
    a. From the notification area, right-click the **network icon** and select **Network & Internet settings**.
       Notice that you are shown that the computer has no connection to the internet.
    b. Select **Advanced network settings**.
    c. Under *Related Settings*, select **More network adapter options** to help determine why.
       Notice the status for the network connection is *Network cable unplugged*.
    d. Close the Network Connections window.
    e. Close the Settings app.

2. Connect the cable.
    a. From the top left, select **Office 1** to work with the computer hardware.
    b. Switch to the **Back** view of the computer.
       The computer has a network cable, but the link light is not on.
    c. Select the **network cable** connected to the computer to see what is connected to the other end.
       Notice that in the Selected Item pane, one end is unconnected.
    d. Select the **unconnected end** and drag it to the network connection on the wall plate.

3. Configure the IP addresses.
    a. Select the monitor to switch to the operating system view.
       The notification area shows a network connection.
    b. Right-click **Start** and select **Settings**.
    c. Select **Network & internet**.
    d. Select **Ethernet**.

    e. For *IP assignment*, select **Edit**.

    f. If necessary, change the Edit IP settings dropdown to **Manual**.

    g. For IPv4, make sure the button is slid to the **ON** position.

    h. Configure the fields as follows:

- IP address: *Valid IP address* (such as 192.168.0.27)
- Subnet mask: **255.255.255.0**
- Gateway: **192.168.0.5**
- Preferred DNS: **163.128.78.93** or **163.128.80.93**

    i. Select **Save**.

    j. Close the Settings app.

4. Verify a connection to the internet.

    a. Right-click **Start** and select **Terminal**.

    b. Type **ping 163.128.78.93** from the PowerShell prompt.

    c. Press **Enter**.