

2.14 LAB

Complete this lab as follows:

1. From the Office 1 computer, use the **ping** command to begin troubleshooting the connectivity problem.
 1. Under Office 1, select **Office1**.
 2. Right-click **Start** and then select **Terminal (Admin)**.
 3. From the PowerShell prompt, ping the following computers:
 - CorpServer: Type **ping 192.168.0.10** and then press **Enter**.
 - Office2: Type **ping 192.168.0.31** and then press **Enter**.
 - ITAdmin: Type **ping 192.168.0.33** and then press **Enter**.Notice that all the pings fail.
2. Check for a connection to the internet using the Settings app.
 1. Right-click **Start** and then select **Settings**.
 2. Select **Network & Internet**.
Notice that the diagram on the Status pane shows that the computer is not connected to a network.
 3. Close the Settings dialog.
3. Check for a network connection by viewing the NIC port of the Office1 computer.
 1. From the top left, select **Office 1** to view the hardware in this office.
 2. Above the Office1 workstation, select **Back** to see the back of the computer.
Notice that there is no Ethernet cable attached to the computer. However, there is an Ethernet cable plugged into the wall plate. The cable could have been accidentally disconnected from the computer when the user added the speakers.
4. Connect the network cable from the wall outlet to Office1.
 1. Select the **Ethernet cable** plugged into the wall plate.
 2. From the Selected Component pane, drag the unconnected **RJ45 Shielded Connector** to the NIC on the back of the Office1 computer.
Notice that the status and link lights on the NIC are green and active.
5. Check for network connectivity from Office1.
 1. On the Office1 monitor, select **Click to view Windows 11**.
 2. Right-click **Start** and select **Settings**.
 3. Select **Network & Internet**.
The diagram on the Status page shows a connection to the network and internet.
 4. (Optional) Ping each *workstation* on the network.
Each ping attempt now succeeds.