

6.5 Challenge Lab: Install a SOHO Network

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Time Spent: 21:43

Score: 100%



Task Summary

Required Actions

✓ Connect the router [Show Details](#)

✓ Connect the PCs to the router [Show Details](#)

✓ Configure the PCs to receive DHCP addresses and be assigned DNS servers automatically [Show Details](#)

✓ Connect the wireless access point [Show Details](#)

✓ Configure the wireless access point [Show Details](#)

✓ Configure the laptop to connect to the wireless network

✓ Configure the iPad to connect to the wireless network

Explanation

Complete this lab as follows:

1. Connect the router to the internet.
 - a. From the home office view, under **Computer Desk**, select **Hardware**.
 - b. Under Inventory, expand **Networking Devices**.
 - c. Drag the **router** from the Inventory to the Workspace area.
 - d. Switch to the back view of the router.
 - e. Under Inventory, expand **Cables**.
 - f. Select the **Power Adapter**.
 - g. From the Selected Item pane:
 - Drag the **DC Power Connector** to the power plug on the router.
 - Drag the **AC Power Adapter** to the AC power plug on the surge protector.
 - h. Under Inventory, select **Cat5e Cable, RJ45**.
 - i. From the Selected Item pane:
 - Drag an **RJ45 Connector** to the WAN port on the router.
 - Drag the other **RJ45 Connector** to the left network plug on the wall plate.
2. Connect the desktop computers to the router.

- a. Switch to the Back view of the PC1 case (on the left).
 - b. From the Inventory, select **Cat5e Cable, RJ45**.
 - c. From the Selected Item pane:
 - Drag an **RJ45 Connector** to a LAN port on the router.
 - Drag the other **RJ45 Connector** to the network plug on the computer.
 - d. Repeat these steps to connect PC2 to the router.
3. Configure TCP/IP on the desktop computers.
 - a. Click the PC1 monitor to view the OS.
 - b. Right-click **Start** and then select **Settings**.
 - c. Select **Network & internet**.
 - d. Select **Ethernet**.
 - e. From the right pane, scroll down to *IP assignment* and then select **Edit**.
 - f. Under *Edit IP settings*, use the drop-down list to select **Automatic (DHCP)**.
 - g. Select **Save**.
 - h. From the left pane of the Settings app, select **Network & internet** and verify that the computer has access to the internet.
 - i. From the top left, select **Computer Desk** to switch back to the Workspace view.
 - j. On the PC2 monitor, select **Click to view Windows 11**.
 - k. Repeat these steps to configure PC2.
 4. Connect the wireless access point to the router.
 - a. From the top left, select **Computer Desk** to return to the Workspace.
 - b. Under Inventory, expand **Networking Devices**.
 - c. Drag the **wireless access point** from the Inventory to the Workspace area.
 - d. Switch to the **Back** view of the wireless access point.
 - e. Under Inventory, expand **Cables**.
 - f. Select the **Power Adapter**.
 - g. From the Selected Item pane:
 - Drag the **DC Power Connector** to the power plug on the wireless access point.
 - Drag the **AC Power Adapter** to the AC power plug on the surge protector.
 - h. Under Inventory, select the **Cat5e Cable**.
 - i. From the Selected Item pane:
 - Drag an **RJ45 Connector** to the WAN port on the wireless access point.
 - Drag the other **RJ45 Connector** to a LAN port on the router.
 5. Configure the wireless access point.
 - a. Click the PC1 monitor to view the OS.
 - b. From the taskbar, select **Google Chrome**.
 - c. In the URL field, enter **192.168.0.100** and press **Enter** to view the wireless access point management console.
 - d. In the Windows Security pop-up dialog, enter **admin** for the username.
 - e. Enter **password** in the Password field.
 - f. Select **OK**.
 - g. From the left menu, select **Wireless**.
 - h. Select **Basic**.
 - i. Enter **HomeWireless** in the *Wireless Name(SSID)* field.
 - j. Select **Apply**.
 - k. In the Windows Security pop-up dialog, enter **admin** for the username.
 - l. Enter **password** in the Password field.
 - m. Select **OK**.
 - n. Under **Wireless**, select **Security**.
 - o. From the Security Mode drop-down list, select **WPA2-PSK** for authentication.
 - p. Under **WPA**, make sure **AES** is selected.
 - q. In the Pass Phrase field, enter **@hOMEwIRELESS!** as the security key.

- r. Select **Apply**.
- 6. Configure the laptop's wireless connection.
 - a. From the top left, select **Computer Desk** to switch back to the Workspace view.
 - b. On the front of the laptop, select the **wireless switch** to enable wireless networking.
 - c. Click the laptop monitor to view the OS.
 - d. In the system tray, select the **network icon**.
 - e. Select the **arrow** above Available.
 - f. Select **HomeWireless**.
 - g. Make sure **Connect Automatically** is checked.
 - h. Select **Connect**.
 - i. Enter **@hOMEwIRELESS!** as the network security key.
 - j. Select **Next**.
 - k. Using your mouse, hover over the *networking icon* and verify that the laptop has a connection to the internet.
- 7. Configure the iPad wireless connection.
 - a. From the top left, select **Computer Desk** to switch back to the Workspace view.
 - b. Click the button at the bottom of the iPad to turn it on and view the OS.
 - c. Select **Settings**.
 - d. Select **Wi-Fi**.
 - e. Under **NETWORKS**, select **HomeWireless**.
 - f. In the Password field, enter **@hOMEwIRELESS!** as the password.
 - g. Select **Join**.