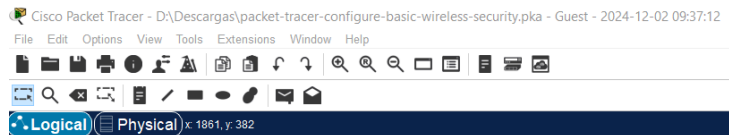# Configure Basic Wireless Security

Objectives

Configure basic wireless security using WPA2 Personal.
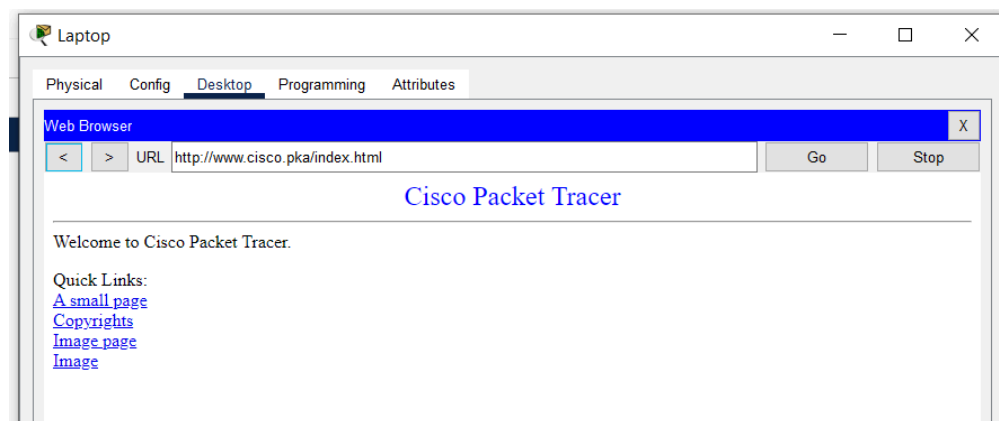
Background / Scenario

A small business owner learns that the wireless network should be secured from unauthorized access. He has decided to use WPA2 Personal for his network.


Instructions

Part 1: Verify connectivity.

    a.   Access the **Desktop > Web Browser** on the laptop.

    b.   Enter **www.cisco.pka** into the URL. The web page should display.

Part 2: Configure basic wireless security.

a.   Enter **192.168.1.1** in the web browser to access the wireless router. Enter **admin** as the username and password.

b.   Click the Wireless menu. Select **Wireless Security** menu.

c.   The security mode is disabled currently. For the 2.4 GHz network, change the security mode to **WPA2 Personal**. For the 5 GHz networks, you can leave them as disabled.

d.   In the Passphrase field, enter **Network123**.

e.   Scroll down to the bottom of the page and click **Save Settings**. Close the web browser.
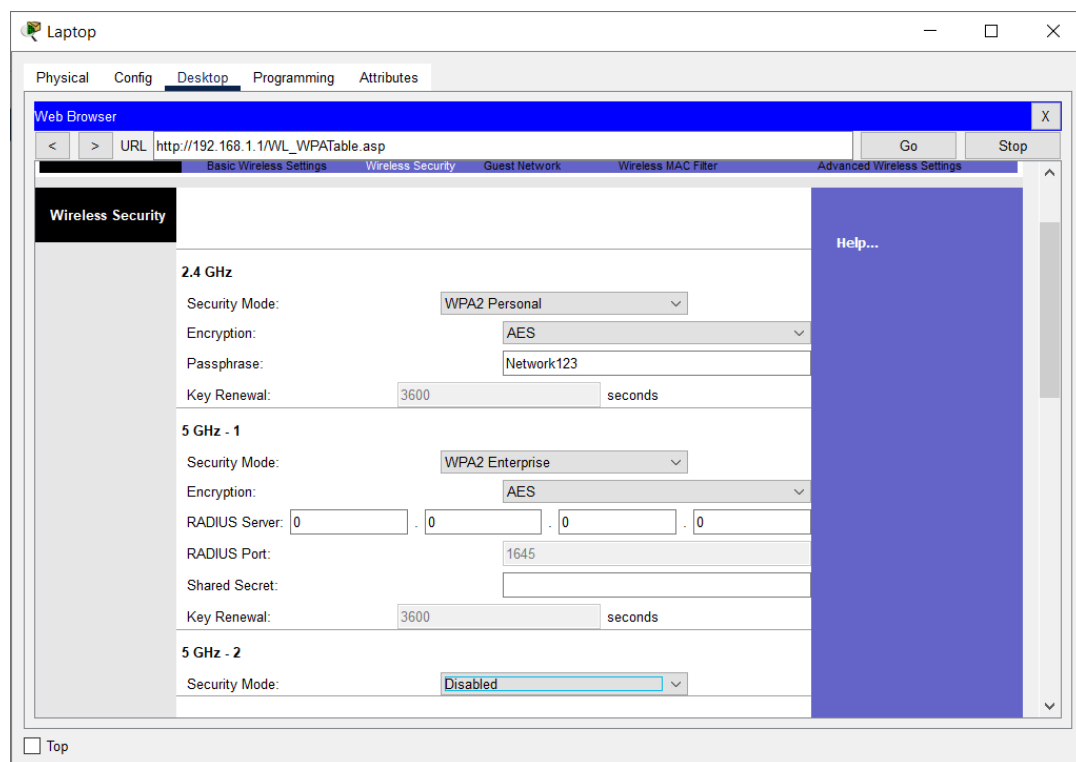

Part 3: Update the wireless settings on Laptop.

a.   Click **PC Wireless** in the Desktop tab.

b.   Click the **Connect** tab. Select the **Academy** and click **Connect**.

c.   Enter **Network123** as the pre-shared key. Click **Connect**.

d.   Close the **PC Wireless** window.
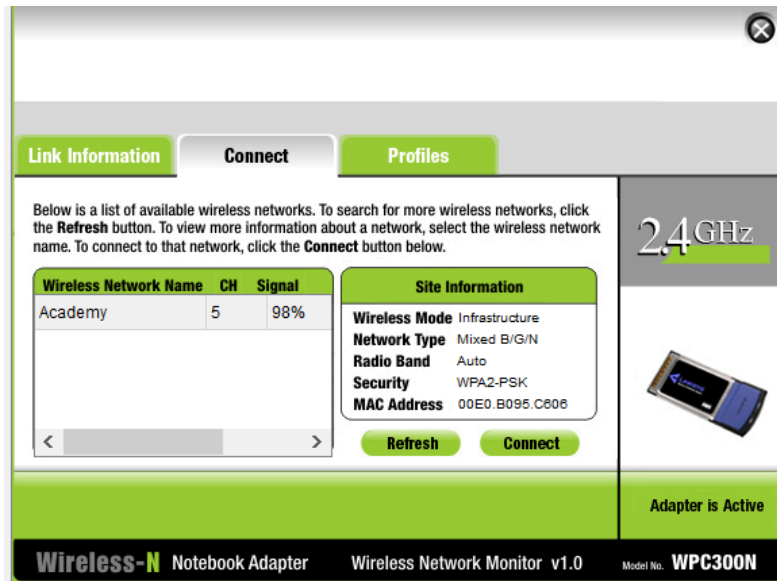
Part 4: Verify connectivity.

a.   Access the **Web Browser**.

b.   Enter **www.cisco.pka** into the URL. Verify that the web page displays after the addition of basic wireless configuration.

c.   If you are unable to access the web page, verify your wireless settings on the wireless router and the laptop. Also verify that the laptop is connected to the wireless router.
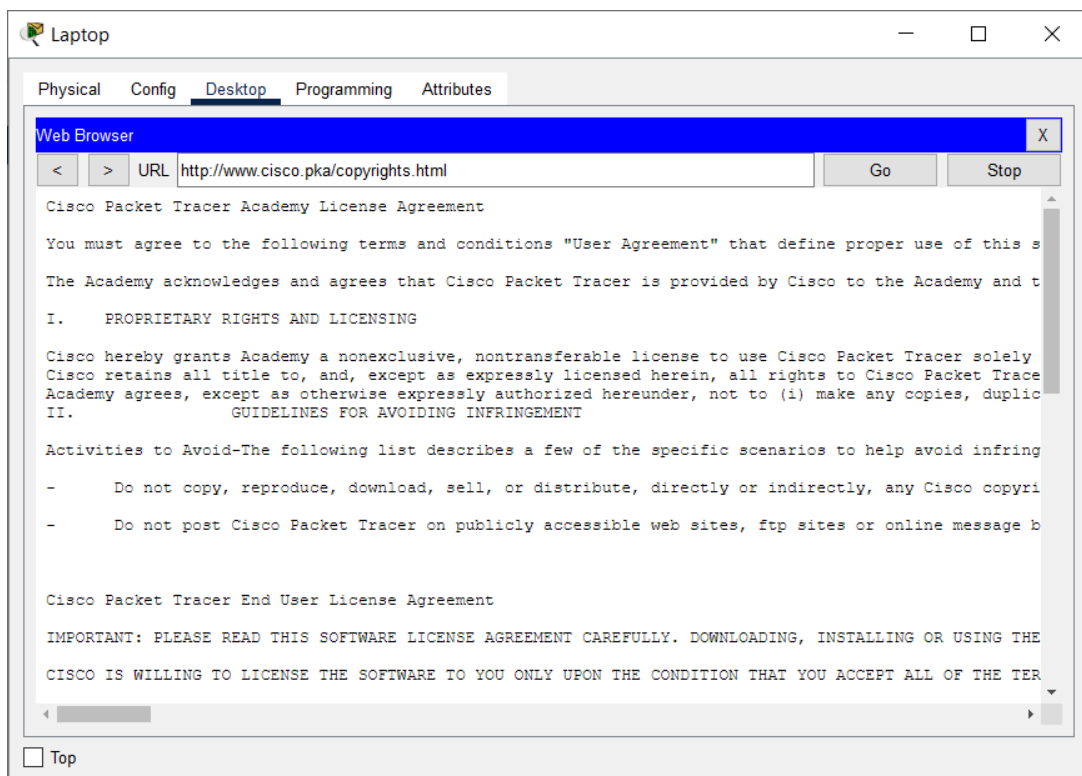
Summary

In this activity, I learned how to secure a wireless network and connect a laptop to it.

First, I checked if I could access the internet by going to a website. Then, I logged in to the router's settings using its default username and password. Inside the settings, I found the wireless security section and enabled WPA2 Personal security with the passphrase "Network123" for the 2.4 GHz network (I left the 5 GHz network disabled). After saving the settings, I connected my laptop to the wifi network named "Academy" and entered the passphrase "Network123" to join. Finally, I verified that I could still access the internet after making these changes.

If I had any problems connecting after setting the security, I learned to double-check the router and laptop settings to make sure everything was configured correctly.