[Answers] 4.6.5 Packet Tracer - Connect a Wired and Wireless LAN
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Part 1: Connect to the Cloud

Step 2: Connect the cloud to Cable Modem.

Choose the correct cable to connect Cloud Coax7 to Modem Port0.
If you attached the correct cable, the link lights on the cable turn green.

- *Based on the term "Coax7," we will be using a **coaxial cable**.*

Part 2: Connect Router0

Step 2: Connect Router0 to netacad.pka.

Choose the correct cable to connect Router0 F0/1 to netacad.pka F0. Routers and computers traditionally use the same wires to transmit (1 and 2) and receive (3 and 6). The correct cable to choose consists of these crossed wires. Although many NICs can now autosense which pair is used to transmit and receive, Router0 and netacad.pka do not have autosensing NICs.

- Correct cable is ***copper cross-over***.

Step 3: Connect Router0 to the Configuration Terminal.

Choose the correct cable to connect Router0 Console to Configuration Terminal RS232. This cable does not provide network access to Configuration Terminal, but allows you to configure Router0 through its terminal.

- Use ***console*** cable.

Part 3: Connect Remaining Devices

Step 1: Connect Router1 to Switch.

Choose the correct cable to connect Router1 F1/0 to Switch F0/1.

- Use ***fiber*** cable.

Step 2: Connect Cable Modem to Wireless Router.

Choose the correct cable to connect Cable Modem Port1 to Wireless Router Internet port.

- Use ***copper straight-through*** cable

Step 3: Connect Wireless Router to Family PC.

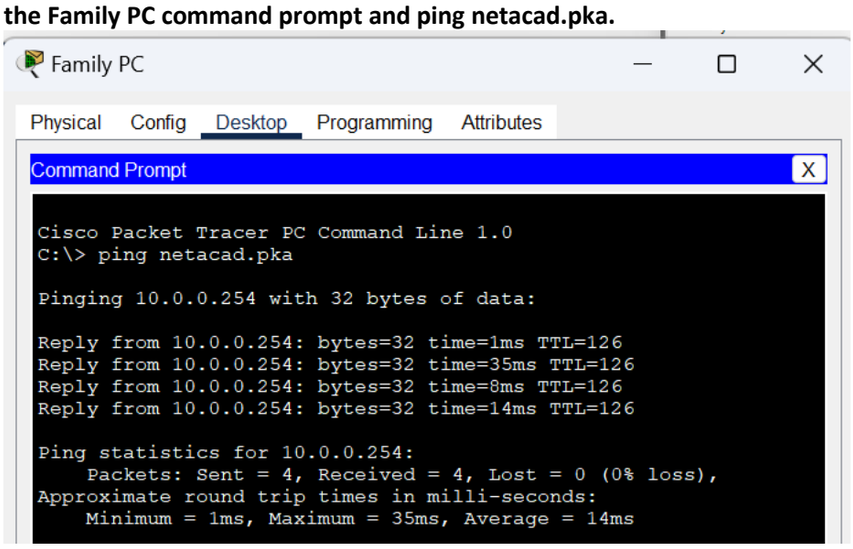
Choose the correct cable to connect Wireless Router Ethernet 1 to Family PC.

- Use ***copper straight-through*** cable

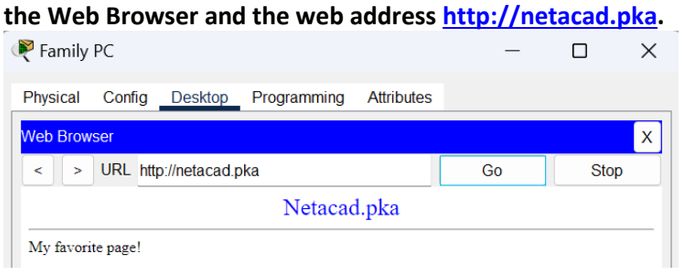
Part 4: Verify Connections

Step 1: Test the connection from Family PC to netacad.pka.

a. Open the Family PC command prompt and ping netacad.pka.

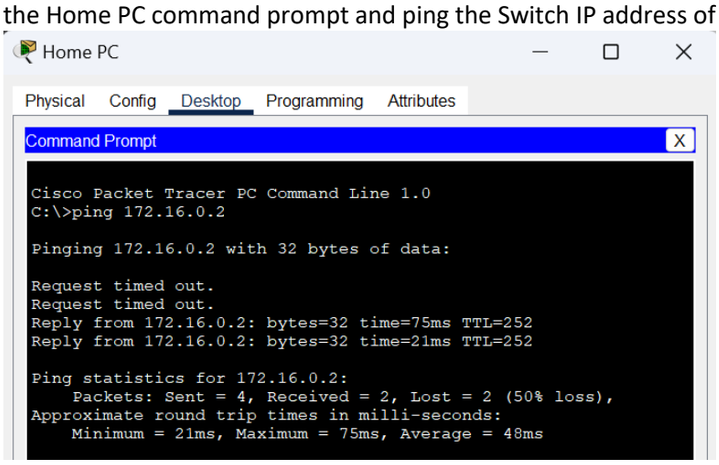


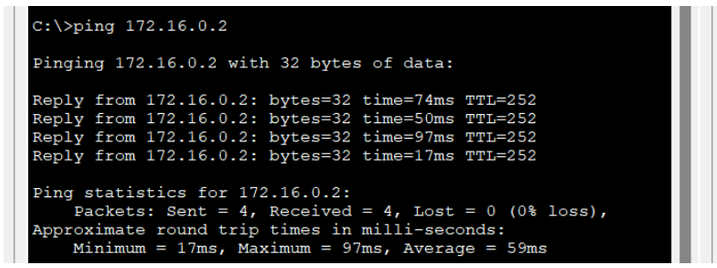
b. Open the Web Browser and the web address http://netacad.pka.



Step 2: Ping the Switch from Home PC.

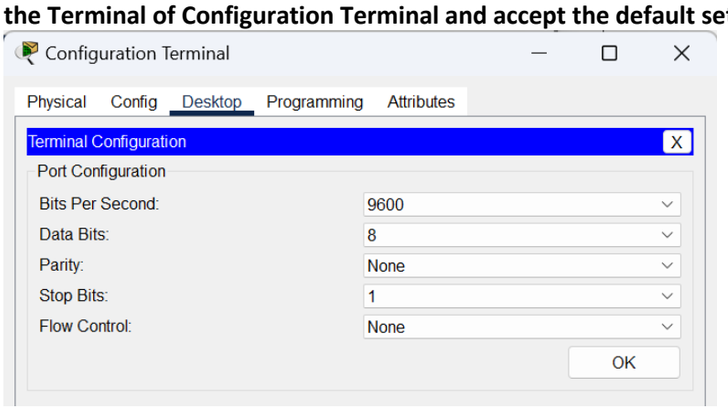
Open the Home PC command prompt and ping the Switch IP address of to verify the connection.



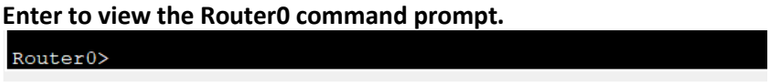


Step 3: Open Router0 from Configuration Terminal.

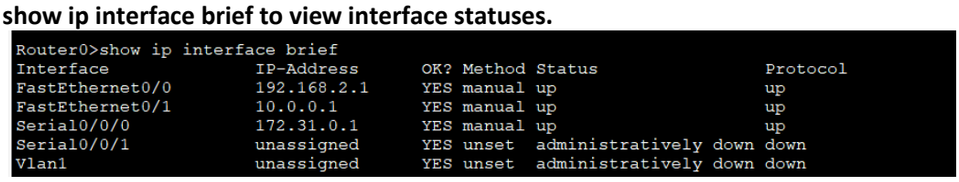
a. Open the Terminal of Configuration Terminal and accept the default settings.



b. Press Enter to view the Router0 command prompt.



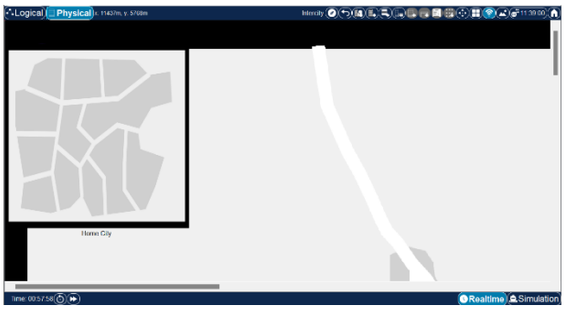
c. Type show ip interface brief to view interface statuses.



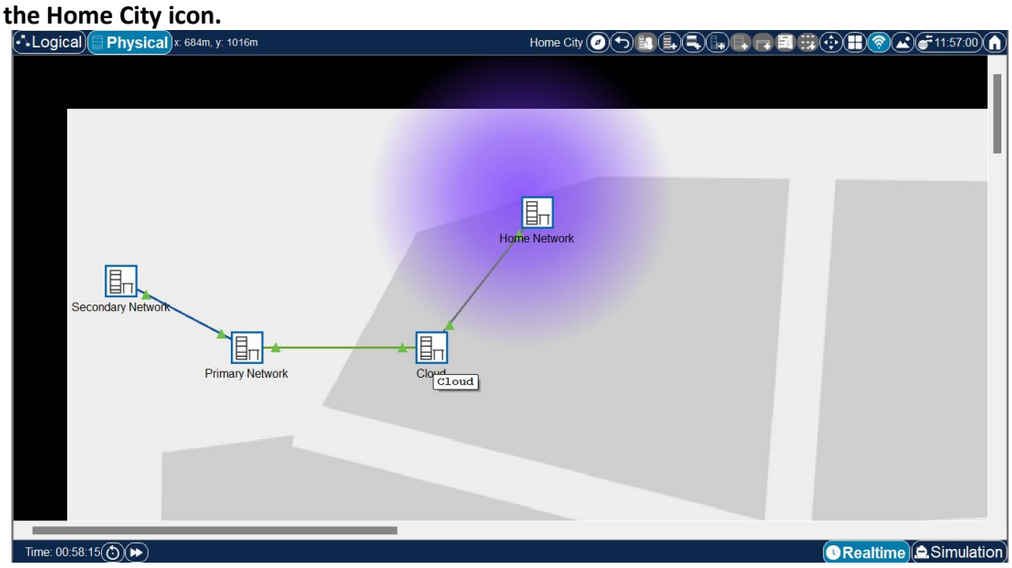
Part 5: Examine the Physical Topology

Step 1: Examine the Cloud.

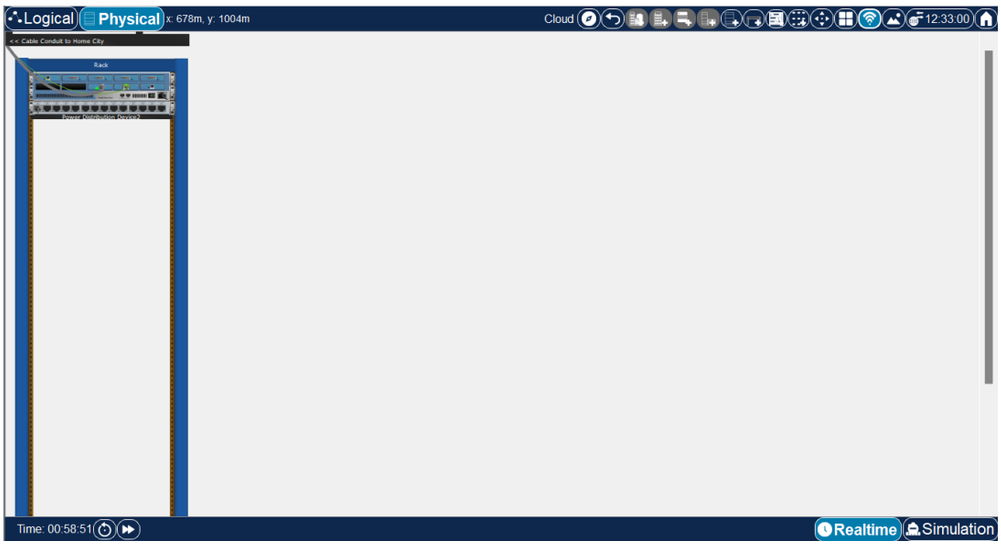
a. Click the Physical Workspace tab or press Shift+P and Shift+L to toggle between the logical and physical workspaces.

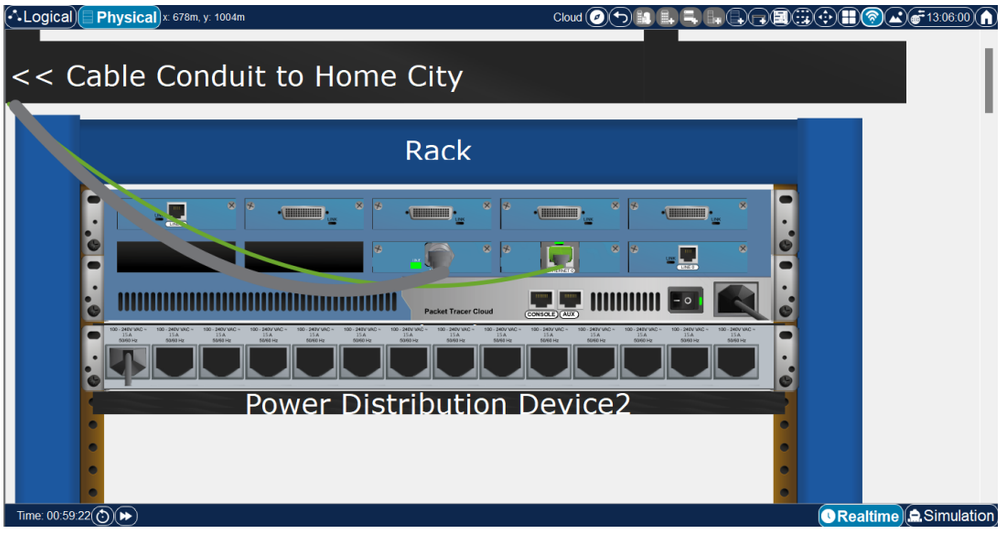


b. Click the Home City icon.



c. Click the Cloud icon.

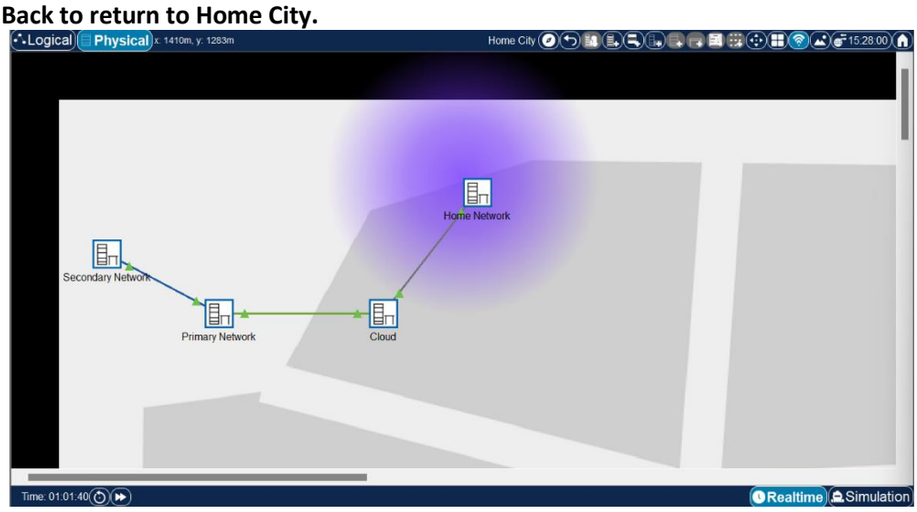




How many wires are connected to the switch in the blue rack?

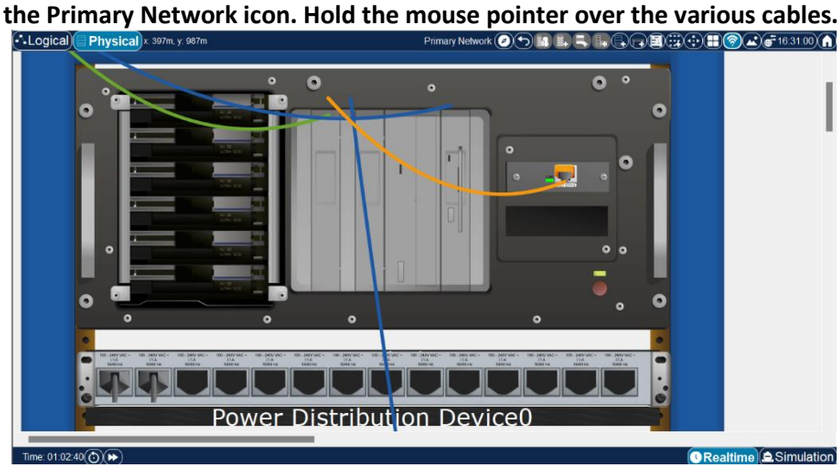
- 2

d. Click Back to return to Home City.



Step 2: Examine the Primary Network.

a. Click the Primary Network icon. Hold the mouse pointer over the various cables.



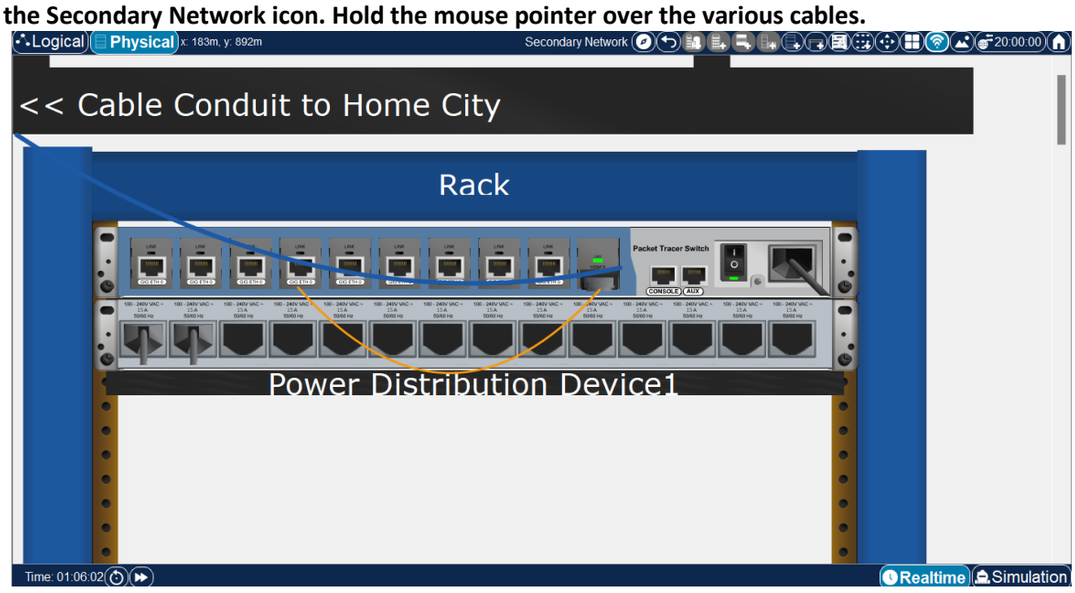
What is located on the table to the right of the blue rack?

- It's a system unit

b. Click Back to return to Home City.

Step 3: Examine the Secondary Network.

a. Click the Secondary Network icon. Hold the mouse pointer over the various cables.



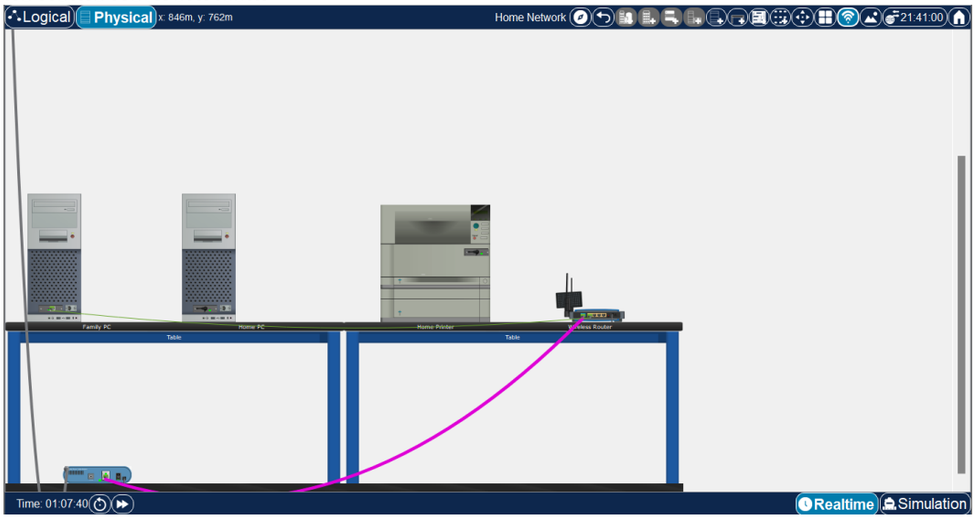
Why are there two orange cables connected to each device?

- One for transmitting, one for receiving

b. Click Back to return to Home City.

Step 4: Examine the Home Network.

a. Click the Home Network icon.



Why is there no rack to hold the equipment?

- Usually, no rack is used for this home network

b. Click the Logical Workspace tab to return to the logical topology.