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[**4.6.5 - Packet Tracer - Connect a Wired and Wireless LAN**](https://contenthub.netacad.com/itn#4.6.5)

**Part 5: Examine the Physical Topology**

#### Step 1: Examine the Cloud.

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

Answer: 2.

#### Step 2: Examine the Primary Network.

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

Answer: Configuration Terminal.

#### Step 3: Examine the Secondary Network.

1. Why are there two orange cables connected to each device?

Answer: Fiber cables come in pairs, one for transmit, the other for receive.

#### Step 4: Examine the Home Network.

1. Why is there an oval mesh covering the home network?

Answer: It represents the range of the wireless network.

2. Why is there no rack to hold the equipment?

Answer: Home networks typically do not have racks.

Mac: 28-39-26-E7-AA-E1

Speed: 72,2 mb/s

Ip address: 5

[**4.6.6 - Lab - View Wired and Wireless NIC Information**](https://contenthub.netacad.com/itn#4.6.6)

**Part 1: Identify and Work with PC NICs.**

Step 2: Identify the Network Problem icon.

1. What is the Service Set Identifier (SSID) for the wireless router of your connection?

Answer: KBTU-wireless

1. What is the speed of your wireless connection?

Answer: 72 mb/s

1. What is the MAC address of your wireless NIC?

Answer: 90:9c:4a:bd:32:fc

[**4.7.1 - Packet Tracer - Connect the Physical Layer**](https://contenthub.netacad.com/itn#4.7.1)

### Step 1:  Identify the management ports of a Cisco router.

1.Which management ports are available?

Answer: AUX and Console ports

### Step 2:  Identify the LAN and WAN interfaces of a Cisco router.

1. Which LAN and WAN interfaces are available on the **East** router and how many are there?

Answer: There are 2 WAN interfaces and 2 Gigabit Ethernet interfaces.

1. How many physical interfaces are listed?

Answer: 4.

#### **Question:**

1. What is the default bandwidth of this interface?

Answer: 1000000 Kbit

1. What is the default bandwidth of this interface?

Answer: 1554 Kbit.

1. How many expansion slots are available to add additional modules to the **East** router?

Answer: 1.

1. How many expansion slots are available?

Answer: 5 slots available

## Part 2:  Select Correct Modules for Connectivity

### Step 1:  Determine which modules provide the required connectivity.

1. Which module can you use to connect the three PCs to the **East** router?

Answer: HWIC-4ESW module

1. Which module can you insert to provide a Gigabit optical connection to **Switch3**?

Answer: PT-SWITCH-NM-1FGE

### Step 2:  Add the correct modules and power up devices.

1. Into which slot was it inserted?

Anser: GigabitEthernet 5/1