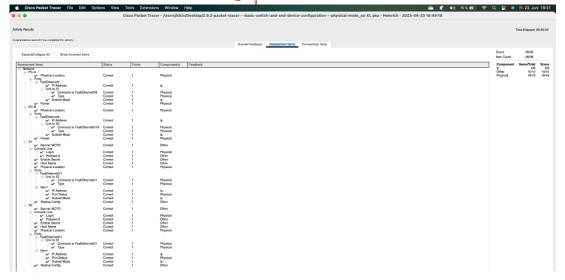
6/23/23, 7:35 PM OneNote

# 2.9.2-packet-tracer---basic-switch-and-end-deviceconfiguration---physical-mode\_es-XL

viernes, 23 de junio de 2023 19:31



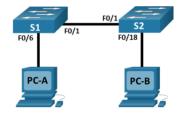
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## Packet Tracer - Basic Switch and End Device Configuration -**Physical Mode**

# Topology



# **Addressing Table**

Device	Interface	IP Address	Subnet Mask
S1	VLAN 1	192.168.1.1	255.255.255.0
S2	VLAN 1	192.168.1.2	255.255.255.0
PC-A	NIC	192.168.1.10	255.255.255.0
РС-В	NIC	192.168.1.11	255.255.255.0

### Objectives

Part 1: Set Up the Network Topology

Part 2: Configure PC Hosts

Part 3: Configure and Verify Basic Switch Settings

# Background / Scenario

In this Packet Tracer Physical Mode (PTPM) activity, you will build a simple network with two hosts and two switches. You will also configure basic settings including hostname, local passwords, and login banner. Use **show** commands to display the running configuration, IOS version, and interface status. Use the **copy** command to save device configurations.

#### Instructions

#### Part 1: Set Up the Network Topology

Power on the PCs and cable the devices according to the topology. To select the correct port on a switch, right click and select **Inspect Front**. Use the Zoom tool, if necessary. Float your mouse over the ports to see the port numbers. Packet Tracer will score the correct cable and port connections.

- a. There are several switches, routers, and other devices on the Shelf. Click and drag switches S1 and S2 to the **Rack**. Click and drag two PCs to the **Table**.
- b. Power on the PCs.
- c. On the Cable Pegboard, click a Copper Cross-Over cable. Click the FastEthernet0/1 port on S1 and then click the FastEthernet0/1 port on S2 to connect them. You should see the cable connecting the two
- d. On the Cable Pegboard, click a Copper Straight-Through cable. Click the FastEthernet0/6 port on S1 and then click the FastEthernet0 port on PC-A to connect them.
- e. On the Cable Pegboard, click a Copper Straight-Through cable. Click the FastEthernet0/18 port on S2
  and then click the FastEthernet0 port on PC-B to connect them.
- f. Visually inspect network connections. Initially, when you connect devices to a switch port, the link lights will be amber. After a minute or so, the link lights will turn green.

#### Part 2: Configure PC Hosts

Configure static IP address information on the PCs according to the **Addressing Table**.

- a. Click PC-A > Desktop > IP Configuration. Enter the IP address for PC-A (192.168.1.10) and the subnet mask (255.255.255.0), as listed in the IP addressing table. You can leave default gateway blank at this time because there is no router attached to the network.
- b. Close the PC-A window
- c. Repeat the previous steps to assign the IP address information for PC-B, as listed in the Addressing
- d. Click PC-A > Desktop > Command Prompt. Use the ipconfig /all command at the prompt to verify settings
- e. Enter ping 192.168.1.11 at the prompt to test the connectivity to PC-B. The ping should be successful, as shown in the following output. If the ping is not successful, check the configurations on both of the PCs and troubleshoot as necessary.

```
C:\> ping 192.168.1.11
Pinging 192.168.1.11 with 32 bytes of data:
Reply from 192.168.1.11: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.1.11:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms
```

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#### Packet Tracer - Basic Switch and End Device Configuration - Physical Mode

#### Part 3: Configure and Verify Basic Switch Settings

- a. On the Cable Pegboard, click a Console cable. Connect the console cable between S1 and PC-A.
- b. Establish a console connection to the switch S1 from PC-A using the Packet Tracer generic Terminal program (PC-A > Desktop > Terminal). Press ENTER to get the Switch> prompt.
- c. You can access all switch commands in privileged EXEC mode. The privileged EXEC command set includes those commands contained in user EXEC mode, as well as the configure command through which access to the remaining command modes are gained. Enter privileged EXEC mode by entering the
- d. The prompt changed from Switch> to Switch# which indicates privileged EXEC mode. Enter global
- e. The prompt changed to Switch(config)# to reflect global configuration mode. Give the switch a name according to the Addressing Table.
- f. Enter local passwords. Use class as the privileged EXEC password and cisco as the password for
- g. Configure and enable the VLAN 1 interface according to the Addressing Table
- h. A login banner, known as the message of the day (MOTD) banner, should be configured to warn anyone accessing the switch that unauthorized access will not be tolerated. Configure an appropriate MOTD banner to warn about unauthorized access.
- i. Save the configuration to the startup file on non-volatile random access memory (NVRAM).
- j. Display the current configuration.
- k. Display the IOS version and other useful switch information.
- I. Display the status of the connected interfaces on the switch.
- m. Repeat the previous steps to configure switch S2. Make sure the hostname is configured as S2.
- n. Record the interface status for the following interfaces.

Interface	S1 Status	S1 Protocol	S2 Status	S2 Protocol
F0/1	Up	VR	VR	Vo
F0/6	Uρ	U)	Down	Down
F0/18	DOWN	Down	VR	Ve
VLAN 1	Q.	VP	νp	<u> </u>

- o. From a PC, ping S1 and S2. The pings should be successful.
- p. From a switch, ping PC-A and PC-B. The pings should be successful.

#### Reflection Question

Why are some FastEthernet ports on the switches up while others are down? Fost Ethanet estan and counts with auctodor, a rens ge la apages. Si 19, estan What could prevent a pina from being count to the counts of a rens ge la apages. What could prevent a ping from being sent between the PCs? TO momenta calles desenventados nortes incorretos frenall.

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