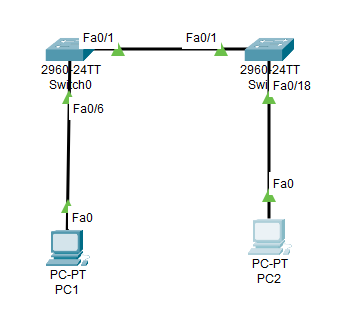
Huỳnh Ngọc Quang – SE181838

NWC204 - dunglt92

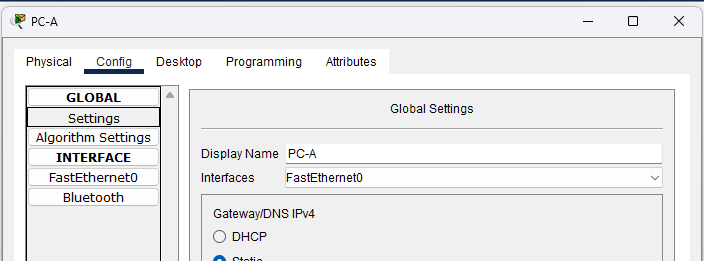
Lab - Basic Switch and End Device Configuration

## Set Up the Network Topology



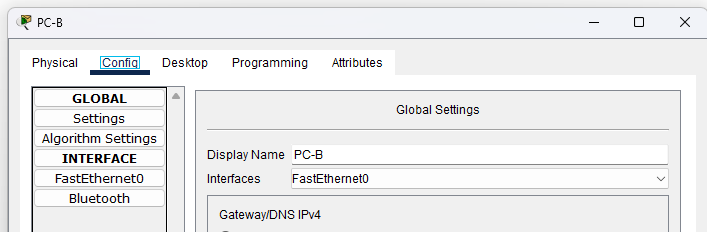
## Configure PC Hosts

* + 1. Configure static IP address information on the PCs according to the Addressing Table.



A screenshot of a computer

Description automatically generated



A screenshot of a computer

Description automatically generated

* + 1. Verify PC settings and connectivity.

A screenshot of a computer program

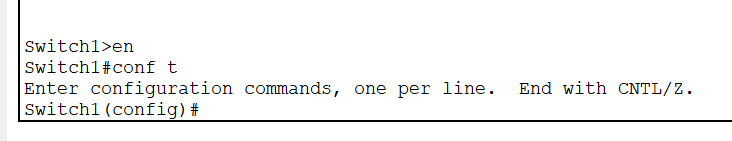
Description automatically generated

A computer screen shot of a computer program

Description automatically generated

## Configure and Verify Basic Switch Settings

* + 1. Console into the switch. Enter the global configuration mode.



Open Configuration Window

* + 1. Give the switch a name according to the Addressing Table.

A black text on a white background

Description automatically generated

* + 1. Prevent unwanted DNS lookups.

A black line with black text

Description automatically generated

* + 1. Enter local passwords. Use **class** as the privileged EXEC password and **cisco** as the password for console access.

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Description automatically generated

A white background with black text

Description automatically generated

* + 1. Configure and enable the SVI according to the Addressing Table.

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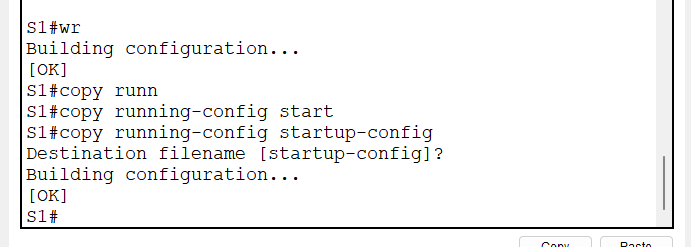
Description automatically generated

* + 1. Enter a login MOTD banner to warn about unauthorized access.

A white text with black text

Description automatically generated

* + 1. Save the configuration.



* + 1. Display the current configuration.

A screenshot of a computer

Description automatically generated

* + 1. Display the IOS version and other useful switch information.

A screenshot of a computer

Description automatically generated

* + 1. Display the status of the connected interfaces on the switch.

A screenshot of a computer

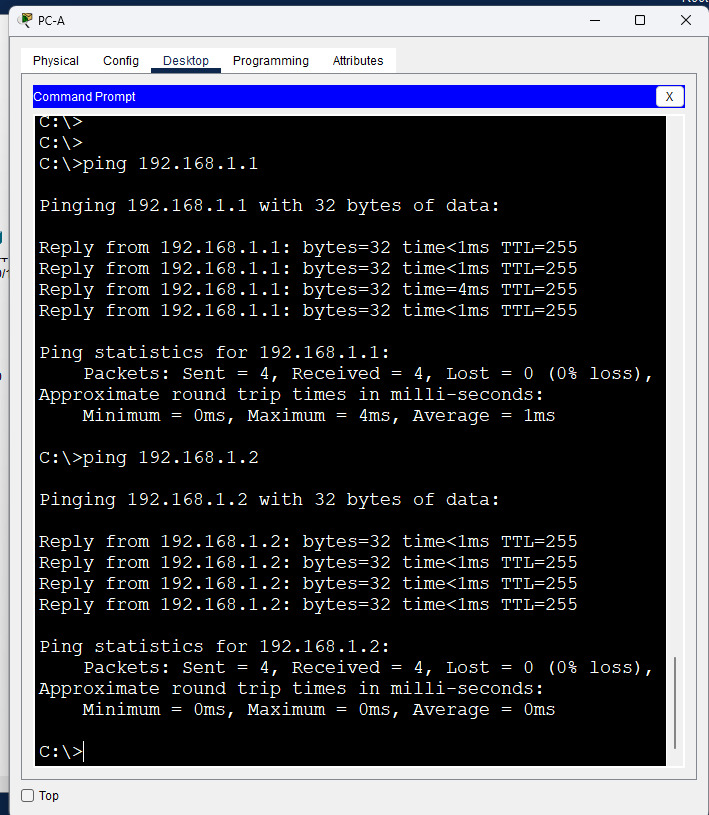
Description automatically generated

Close Configuration Window.

* + 1. Configure switch S2.
    2. Record the interface status for the following interfaces.

| Interface | S1 Status | S1 Protocol | S2 Status | S2 Protocol |
| --- | --- | --- | --- | --- |
| F0/1 | Up | Up | Up | Up |
| F0/6 | Up | Up | Down | Down |
| F0/18 | Down | Down | Up | Up |
| VLAN 1 | Up | Up | Up | Up |

* + 1. From a PC, ping S1 and S2. The pings should be successful.



A computer screen shot of a program

Description automatically generated

* + 1. From a switch, ping PC-A and PC-B. The pings should be successful.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

# Reflection Question

Why some FastEthernet ports on the switches are up and others are down?

* The FastEthernet ports remain in an active state if there are cables connected to them, unless the administrators intentionally disable them. If not, the ports will be in an inactive state.

What could prevent a ping from being sent between the PCs?

* Wrong IP address configuration, media disconnected, switch powered off or ports administratively down, firewall, ....