NETWORKING ASSIGNMENT-1

Cisco tracer lab assignments

Lab Report: Switch & End Device (PC) Connection with Static IP Configuration

Objective:

The objective of this lab is to demonstrate how to set up a **network** using a **switch** and **two PCs** with **static IP addresses**, establish connectivity between the devices, and verify the successful communication between them through **ping tests**.

Switch & End Device (PC) Connection Report

1. Network Devices and Connections:

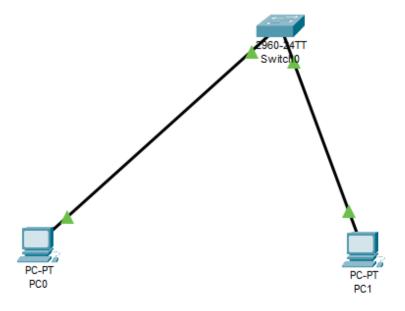
- Switch-0 (Connected via FastEthernet ports)
- PC 1 (Connected via FastEthernet 0 on Switch-0)
- PC 2 (Connected via FastEthernet 1 on Switch-0)

2. Physical Connections:

2.1 Connect Switch to End Devices (PCs):

- Copper Straight-Through Cable:
 - PC 1 is connected to Switch-0 via Copper Straight-Through Cable from PC 1's FastEthernet 0 to Switch-0's FastEthernet 0.
 - PC 2 is connected to Switch-0 via Copper Straight-Through Cable from PC 2's FastEthernet 1 to Switch-0's FastEthernet 1.

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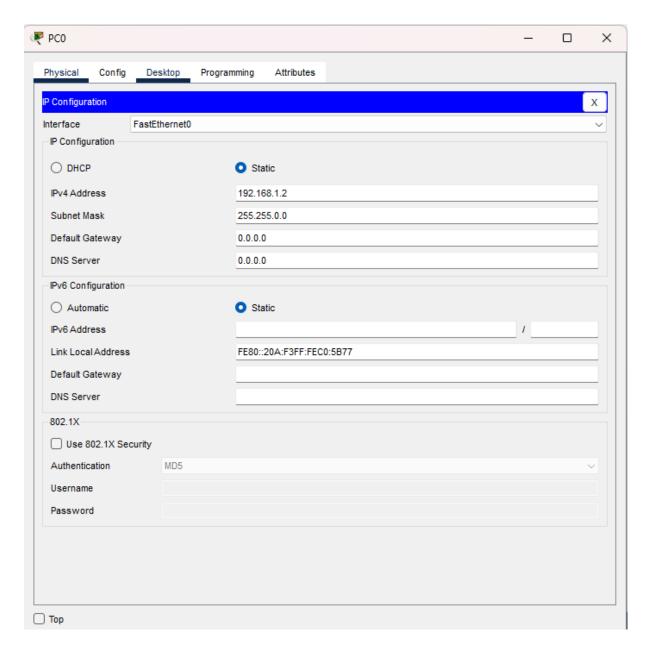
3. Configure End Devices (PCs):

3.1 Configure IP Settings for PC 1:

• IP Address: 192.168.1.2

• Subnet Mask: 255.255.255.0

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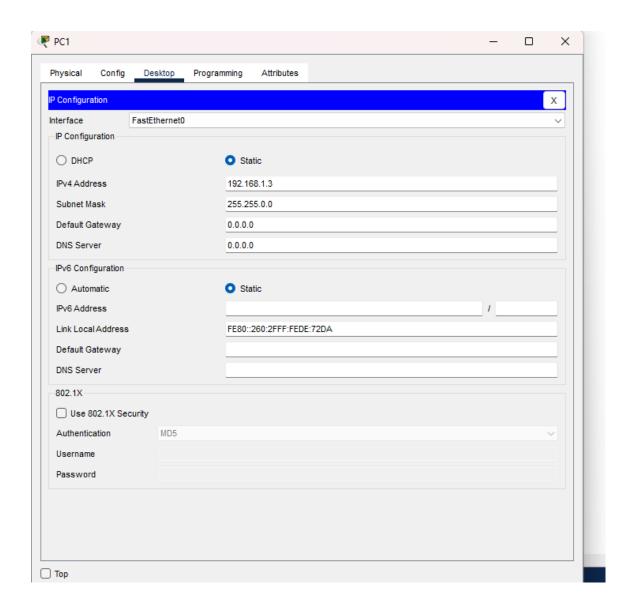


3.2 Configure IP Settings for PC 2:

• IP Address: 192.168.1.3

• Subnet Mask: 255.255.255.0

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4. Verify Connectivity:

Test Connectivity Between PCs:

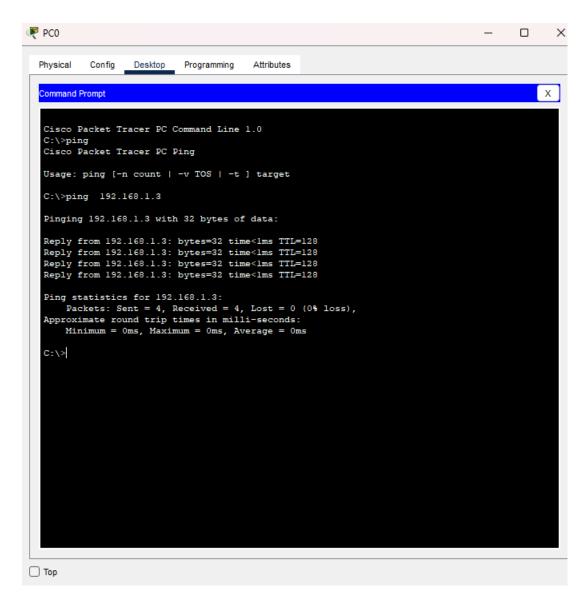
After configuring the **PCs** and **Switch**, test the connectivity using the **ping** command.

• From **PC 1**, ping **PC 2** to verify communication:

```
ping 192.168.1.3
```

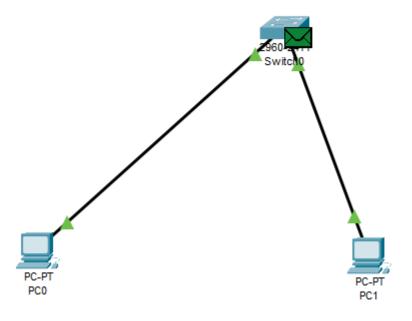
 You should receive a successful reply if the network configuration is correct.

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Final Look

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Conclusion:

This setup demonstrates the process of connecting **PCs** to a **Switch** using **Copper Straight-Through Cables**, configuring **IP settings** on the **PCs**, and verifying the **network connectivity** using **ping tests**. The **ping test results** confirm that **PC 1** and **PC 2** can communicate with each other and the **Switch**.

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