

### Exp 3 Configuration of basic switch setup using Huawei/Cisco network switch using cisco packet tracer.

#### Network Overview:

PC0 (PCPT): IPv4 Address 192.168.1.2

PC1 (PCPT): IPv4 Address 192.168.1.3

Switch0 (296024TT): Connecting the two PCs.

#### Steps to Create the Network:

##### Step 1: Open Cisco Packet Tracer

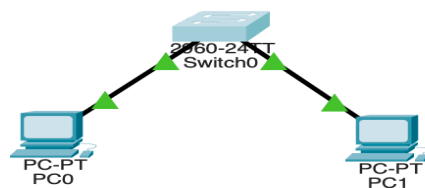
1. Launch Cisco Packet Tracer on your machine.

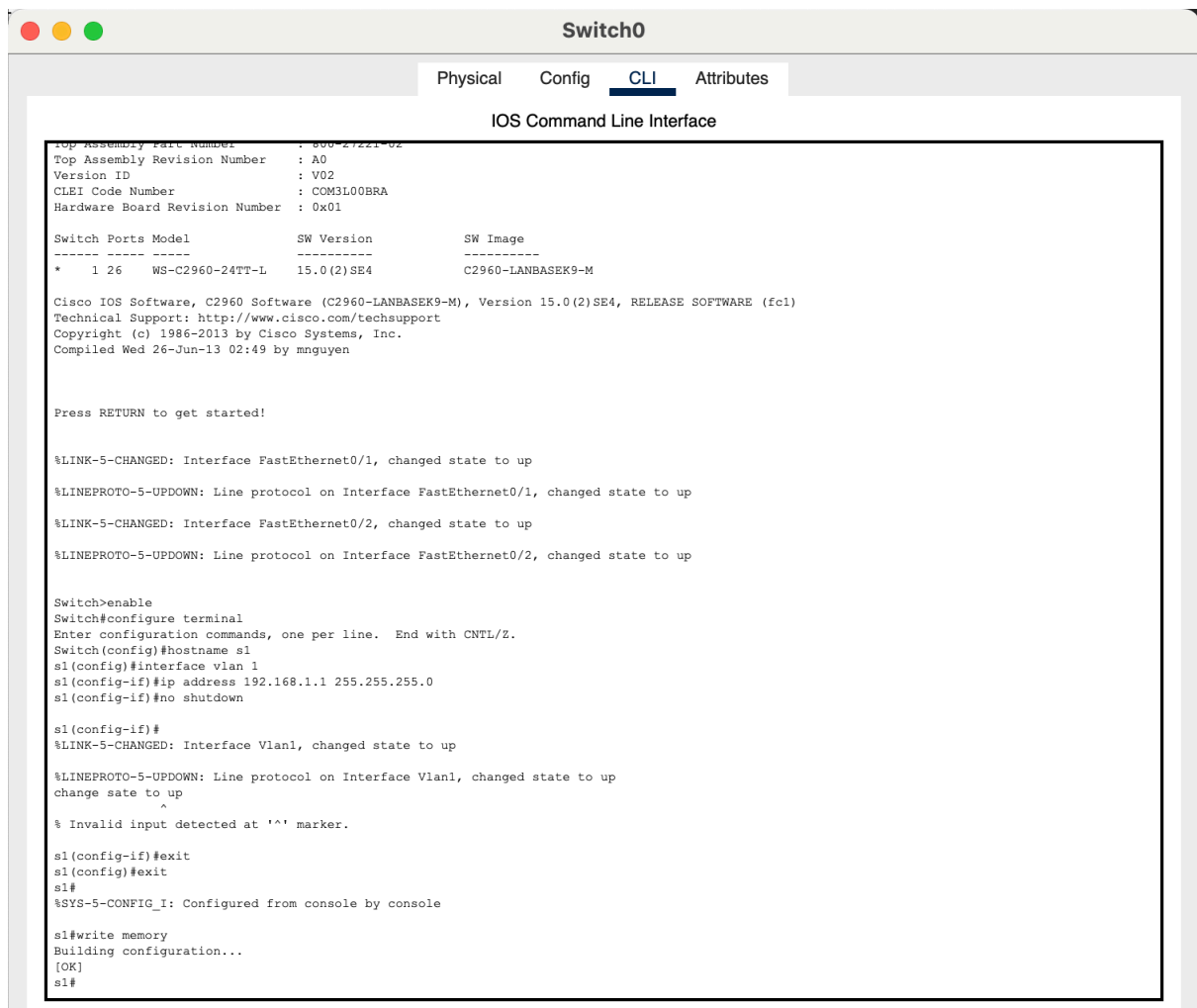
##### Step 2: Add Devices

1. Add PCs:  
Go to the End Devices section (bottomleft).  
Drag and drop 2 PCs (PCPT) onto the workspace.
2. Add a Switch:  
Go to the Switches section.  
Drag and drop a 296024TT Switch onto the workspace.

##### Step 3: Connect Devices

1. Connect PC0 to Switch0:  
Click on the Connections icon (lightning bolt) in the toolbar.  
Select Copper StraightThrough Cable.  
Click PC0 > click the FastEthernet0 interface.  
Then click Switch0 > select FastEthernet0/1 interface.
2. Connect PC1 to Switch0:  
Using the Copper StraightThrough Cable, connect PC1 to FastEthernet0/2 of Switch0.





## Step 4: Configure IP Addresses

### 1. PC0 Configuration:

- Click on PC0.
- Select the Desktop tab.
- Click on IP Configuration.
- Set the following:
  - IP Address: 192.168.1.2
  - Subnet Mask: 255.255.255.0 (default).
- Close the window.

### 2. PC1 Configuration:

- Click on PC1.
- Select the Desktop tab.
- Click on IP Configuration.
- Set the following:
  - IP Address: 192.168.1.3
  - Subnet Mask: 255.255.255.0 (default).
- Close the window.

PC0

Physical Config **Desktop** Programming Attributes

IP Configuration

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IPv4 Address: 192.168.1.2

Subnet Mask: 255.255.255.0

Default Gateway: 0.0.0.0

DNS Server: 0.0.0.0

IPv6 Configuration

☐ Automatic ☒ Static

IPv6 Address: /

Link Local Address: FE80::201:43FF:FEA2:ECD9

Default Gateway:

DNS Server:

802.1X

☐ Use 802.1X Security

Authentication: MD5

### Step 5: Test Connectivity

#### 1. Go to PC0.

Open the Command Prompt from the Desktop tab.

Type the following command to ping PC1:

plaintext

ping 192.168.1.2 s

PC1

Physical Config **Desktop** Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time=27ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 27ms, Average = 6ms

C:\>
```