

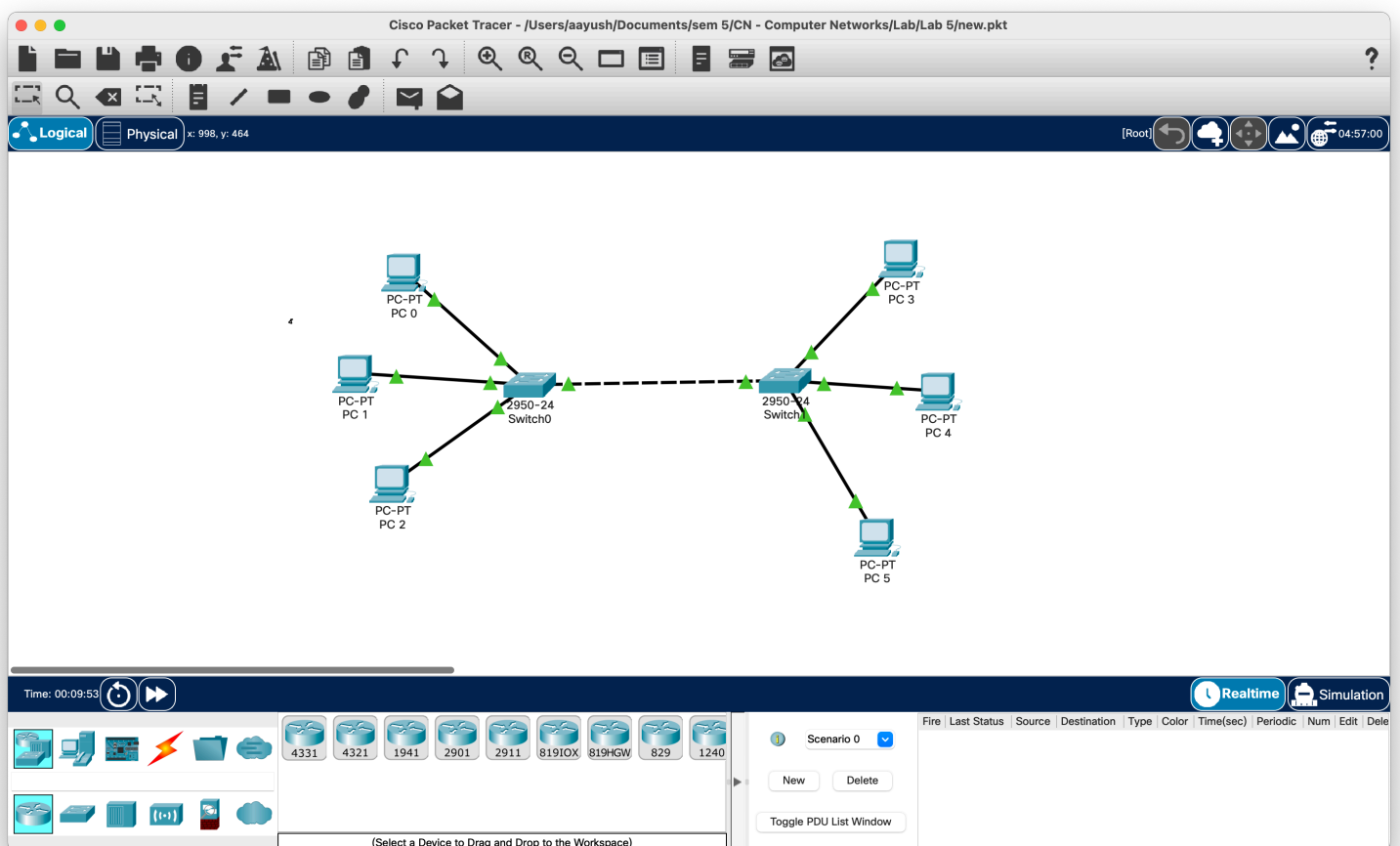
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# Practical 5

## Virtual LAN

- **Configure virtual LAN using packet tracer.**

- **Main Figure :**



• **Configurations :**

PC 0 config

The screenshot shows the configuration window for PC 0. The 'Config' tab is selected. On the left, under 'INTERFACE', 'FastEthernet0' is highlighted. The main area shows the following settings for FastEthernet0:

- Port Status:** ☒ On
- Bandwidth:** ☐ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex:** ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address:** 0001.97C8.189B
- IP Configuration:**
  - ☐ DHCP
  - ☒ Static
  - IPv4 Address:** 192.168.1.2
  - Subnet Mask:** 255.255.255.0
- IPv6 Configuration:**
  - ☐ Automatic
  - ☒ Static
  - IPv6 Address:** (empty field)
  - Link Local Address:** FE80::201:97FF:FE08:189B

At the bottom left, there is a 'Top' button.

PC 1 config

The screenshot shows the configuration window for PC 1. The 'Config' tab is selected. On the left, under 'INTERFACE', 'FastEthernet0' is highlighted. The main area shows the following settings for FastEthernet0:

- Port Status:** ☒ On
- Bandwidth:** ☐ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex:** ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address:** 0040.0B9D.3E0C
- IP Configuration:**
  - ☐ DHCP
  - ☒ Static
  - IPv4 Address:** 192.168.1.3
  - Subnet Mask:** 255.255.255.0
- IPv6 Configuration:**
  - ☐ Automatic
  - ☒ Static
  - IPv6 Address:** (empty field)
  - Link Local Address:** FE80::240:BFF:FE9D:3E0C

At the bottom left, there is a 'Top' button.

PC 2 config

The screenshot shows the configuration window for PC 2. The 'Config' tab is selected. On the left, a sidebar lists 'GLOBAL' (Settings, Algorithm Settings) and 'INTERFACE' (FastEthernet0, Bluetooth). The main area is titled 'FastEthernet0' and contains the following settings:

- Port Status:** On (checked)
- Bandwidth:** 100 Mbps (selected), 10 Mbps (unselected), Auto (checked)
- Duplex:** Half Duplex (unselected), Full Duplex (selected), Auto (checked)
- MAC Address:** 0050.0F9D.E5CC
- IP Configuration:** DHCP (unselected), Static (selected)
  - IPv4 Address:** 192.168.1.4
  - Subnet Mask:** 255.255.255.0
- IPv6 Configuration:** Automatic (unselected), Static (selected)
  - IPv6 Address:** (empty field)
  - Link Local Address:** FE80::250:FFF:FE9D:E5CC

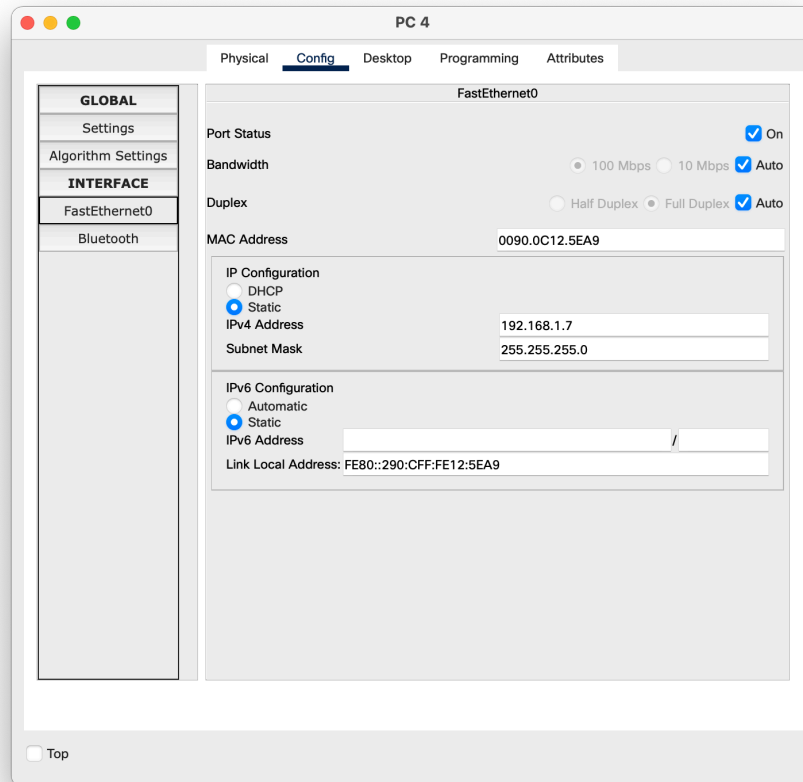
A 'Top' button is located at the bottom left of the window.

PC 3 config

The screenshot shows the configuration window for PC 3. The 'Config' tab is selected. On the left, a sidebar lists 'GLOBAL' (Settings, Algorithm Settings) and 'INTERFACE' (FastEthernet0, Bluetooth). The main area is titled 'FastEthernet0' and contains the following settings:

- Port Status:** On (checked)
- Bandwidth:** 100 Mbps (selected), 10 Mbps (unselected), Auto (checked)
- Duplex:** Half Duplex (unselected), Full Duplex (selected), Auto (checked)
- MAC Address:** 00E0.F905.39CA
- IP Configuration:** DHCP (unselected), Static (selected)
  - IPv4 Address:** 192.168.1.6
  - Subnet Mask:** 255.255.255.0
- IPv6 Configuration:** Automatic (unselected), Static (selected)
  - IPv6 Address:** (empty field)
  - Link Local Address:** FE80::2E0:F9FF:FE05:39CA

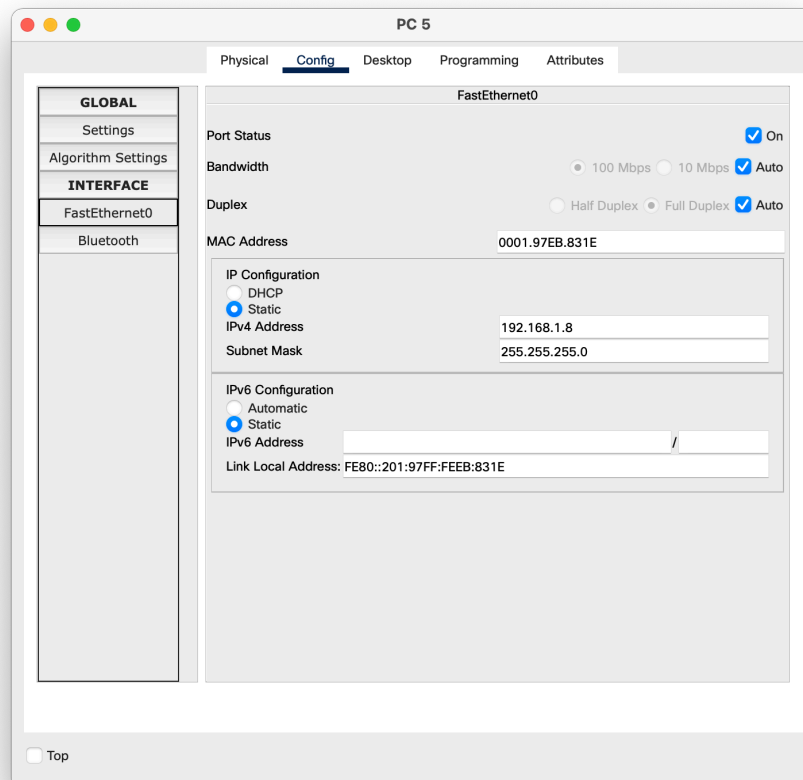
A 'Top' button is located at the bottom left of the window.

PC 4 config

The screenshot shows the configuration window for PC 4. The 'Config' tab is selected. On the left, a sidebar lists 'GLOBAL' (Settings, Algorithm Settings), 'INTERFACE' (FastEthernet0, Bluetooth), and 'Bluetooth'. The main area is titled 'FastEthernet0' and contains the following settings:

- Port Status: ☒ On
- Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address: 0090.0C12.5EA9
- IP Configuration: ☐ DHCP ☒ Static
  - IPv4 Address: 192.168.1.7
  - Subnet Mask: 255.255.255.0
- IPv6 Configuration: ☐ Automatic ☒ Static
  - IPv6 Address: /
  - Link Local Address: FE80::290:CFF:FE12:5EA9

A 'Top' button is located at the bottom left of the window.

PC 5 config

The screenshot shows the configuration window for PC 5. The 'Config' tab is selected. On the left, a sidebar lists 'GLOBAL' (Settings, Algorithm Settings), 'INTERFACE' (FastEthernet0, Bluetooth), and 'Bluetooth'. The main area is titled 'FastEthernet0' and contains the following settings:

- Port Status: ☒ On
- Bandwidth: ☒ 100 Mbps ☐ 10 Mbps ☒ Auto
- Duplex: ☐ Half Duplex ☒ Full Duplex ☒ Auto
- MAC Address: 0001.97EB.831E
- IP Configuration: ☐ DHCP ☒ Static
  - IPv4 Address: 192.168.1.8
  - Subnet Mask: 255.255.255.0
- IPv6 Configuration: ☐ Automatic ☒ Static
  - IPv6 Address: /
  - Link Local Address: FE80::201:97FF:FEEB:831E

A 'Top' button is located at the bottom left of the window.

## Switch CLI

