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EXP:9 Customize Switch with Network Modules using Cisco Packet Tracer DATE: 30/9/25

Aim:

To demonstrate adding and configuring network modules on switches in Cisco Packet Tracer.

Introduction:

Many Cisco switches support modular expansion using various network modules. Customizing these modules provides additional ports or features as required in a network.

Algorithm:

- Open Cisco Packet Tracer and select a modular switch (e.g., 2950 or 3560).
- Power off the switch before adding modules.
- Add required network modules (e.g., FastEthernet, GigabitEthernet) from the Physical tab.
- Power on the switch and connect network devices using the new ports.
- Verify the functionality of added modules by connecting devices and checking for link lights.

PROCEDURE:

Open Cisco Packet Tracer

Launch the Cisco Packet Tracer application.

Add a Switch to the Workspace

- From the device types at the bottom, click on **Switches**.
- Choose a switch that supports network modules (e.g., **2960**, **3560**, or **3750** series).

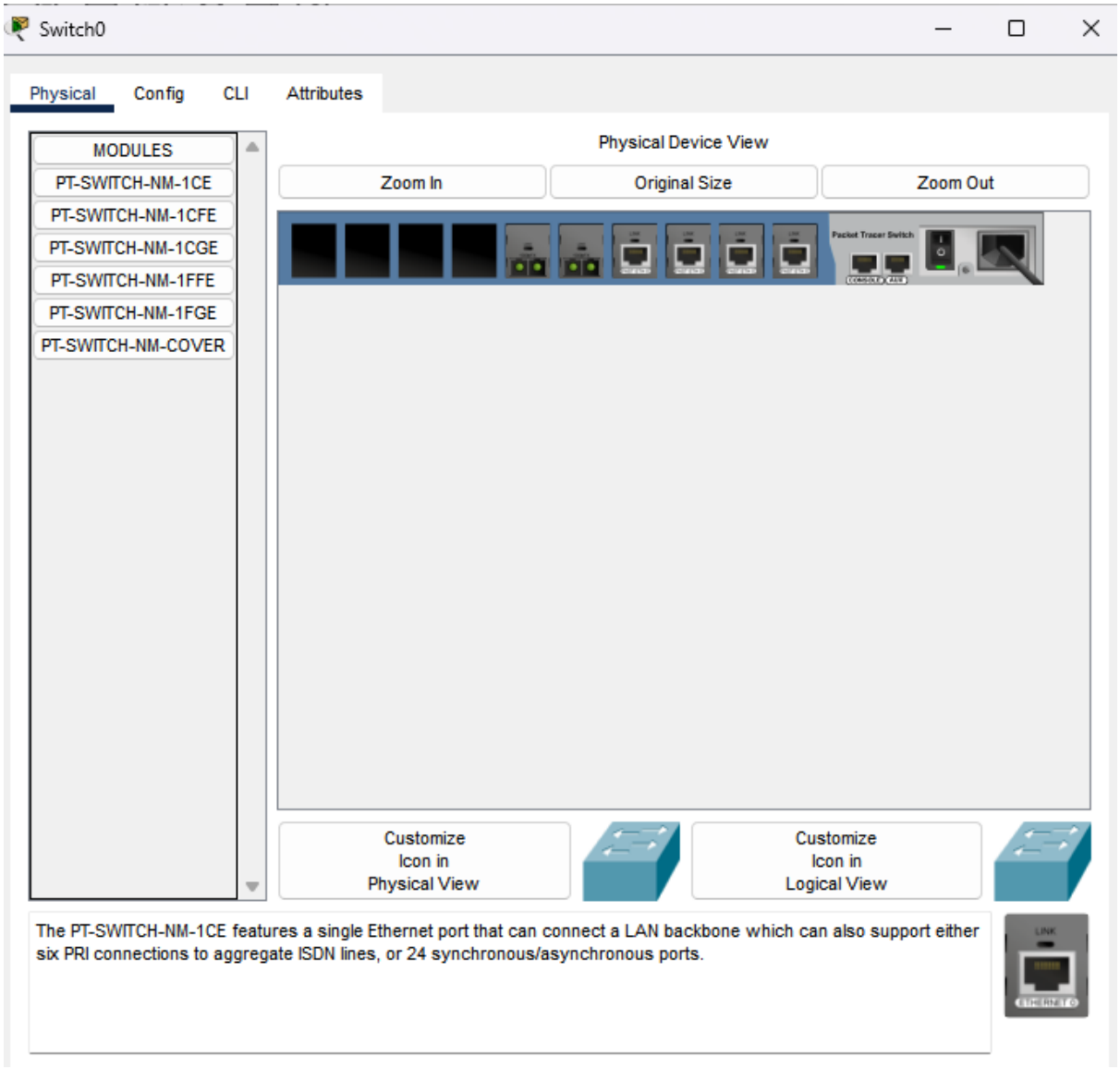
- Drag and drop the switch onto the workspace.

Customize the Switch (Add Network Modules)

- Click on the switch to open the **Physical** tab.
- If the switch supports modular slots, you will see empty slots labeled as **Network Modules** or **Expansion Slots**.

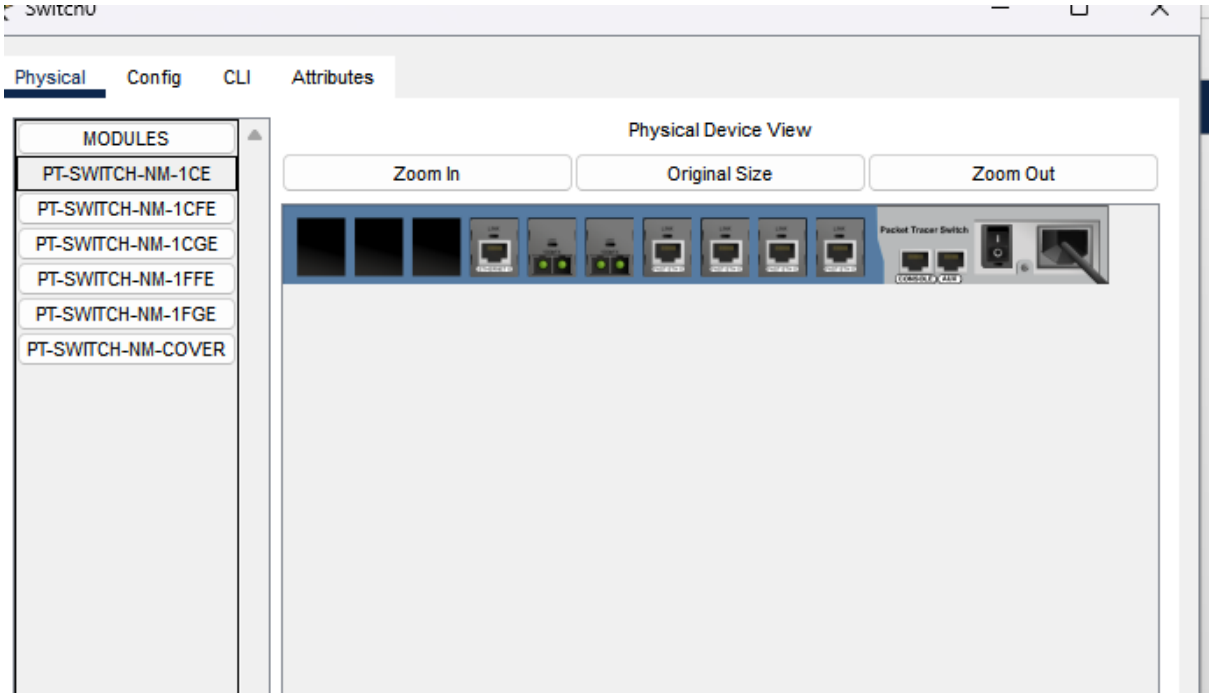
- On the left side or below, you'll see available modules such as **Gigabit Ethernet**, **SFP (fiber),** etc.
- Drag the desired module and drop it into an empty slot on the switch.

2. **Power On the Switch**
   - Ensure the switch is powered on by toggling the power button in the **Physical** tab.
   -



1. **Use the Network Module**
   - After adding, you can use the new interfaces on the switch for connections.
   - Go to the **CLI** tab or **Config** tab to verify the interfaces are present.
2. **Configure the Interfaces (Optional)**
   - Use the **CLI** to configure interfaces if needed.

- Example commands:




```
Switch>show ip interface brief
Interface              IP-Address      OK? Method Status                Protocol
FastEthernet0/1        unassigned      YES manual down                  down
FastEthernet1/1        unassigned      YES manual down                  down
FastEthernet2/1        unassigned      YES manual down                  down
FastEthernet3/1        unassigned      YES manual down                  down
FastEthernet4/1        unassigned      YES manual down                  down
FastEthernet5/1        unassigned      YES manual down                  down
Ethernet6/1            unassigned      YES manual down                  down
Vlan1                  unassigned      YES manual administratively down down
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#interface FastEthernet0/1
Switch(config-if)#no shutdown
Switch(config-if)#description Connected to PC1
Switch(config-if)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console
write memory
Building configuration...
[OK]
Switch#
```

Result:

Switch with additional network modules is successfully configured, extending its capability as needed.