

Ex. No:6

Date:29/08/2024

Customize Switch with Network Modules using Cisco Packet Tracer

- **Open Cisco Packet Tracer**

- Launch Cisco Packet Tracer on your computer.

- **Add a Switch to Your Workspace**

- In the device toolbar (usually on the left side of the screen), locate the "Switches" section.
 - Drag and drop a switch model onto the workspace. For instance, you might choose a model like the "2950" or "2960."

- **Access the Switch's Physical Layout**

- Click on the switch in the workspace to open its configuration window.
 - Navigate to the "Physical" tab to see the switch's physical layout and modules.

- **Add Network Modules**

- In the "Physical" tab, you might see options to add or modify network modules.
 - Click on the slot where you want to add a module. You can choose from available modules such as different types of Ethernet or Fiber modules.
 - Drag the module from the list of available modules and drop it into the slot on the switch.

- **Configure the Modules**

- After adding the module, switch to the "Config" tab in the switch's configuration window.
 - Here, you can configure the ports provided by the module. For example, you can set IP addresses, VLAN configurations, and other settings for the new interfaces.

- **Configure the Switch Ports**

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- Switch to the "Config" tab to configure ports on the switch. Here, you can set parameters for each port.
- Select the specific port or range of ports you want to configure. You can set parameters such as VLAN assignments, port descriptions, and more.
- For example:
 - To configure a port to be in a specific VLAN:
 - Select the port or range of ports.
 - Assign the VLAN ID under the VLAN settings.
 - To set a description for the port:
 - Enter a description in the "Description" field.
- **Using the CLI for Detailed Configuration**
 - Switch to the "CLI" tab for command-line interface access.
 - Enter configuration commands to set up the switch. Here's an example of how to configure VLANs and interface settings via CLI:

```
bash Copy code

Switch> enable
Switch# configure terminal

! Configure VLAN
Switch(config)# vlan 10
Switch(config-vlan)# name Sales
Switch(config-vlan)# exit

! Configure VLAN interface
Switch(config)# interface vlan 10
Switch(config-if)# ip address 192.168.10.1 255.255.255.0
Switch(config-if)# no shutdown
Switch(config-if)# exit

! Assign ports to VLAN
Switch(config)# interface range fa0/1 - 24
Switch(config-if-range)# switchport mode access
Switch(config-if-range)# switchport access vlan 10
Switch(config-if-range)# exit

! Save the configuration
Switch# write memory
```

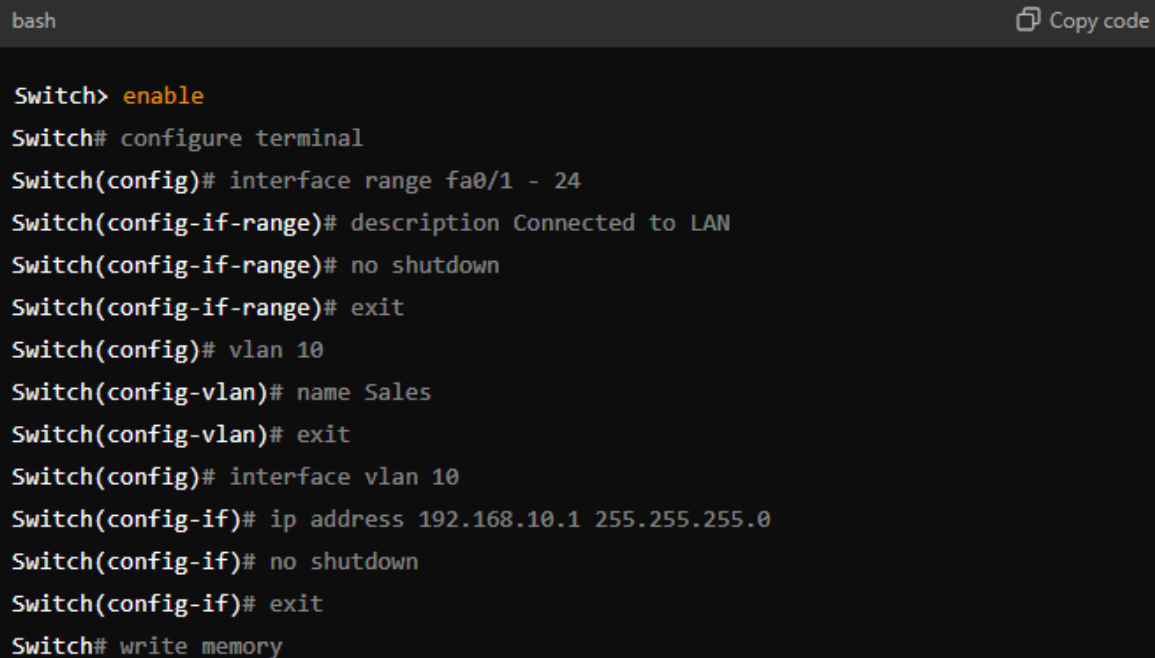
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- **Save Your Configuration**

- Once you've configured the modules and ports, be sure to save your configuration.

Use commands in the CLI (Command Line Interface) if you're using a model that supports CLI commands.

For example:

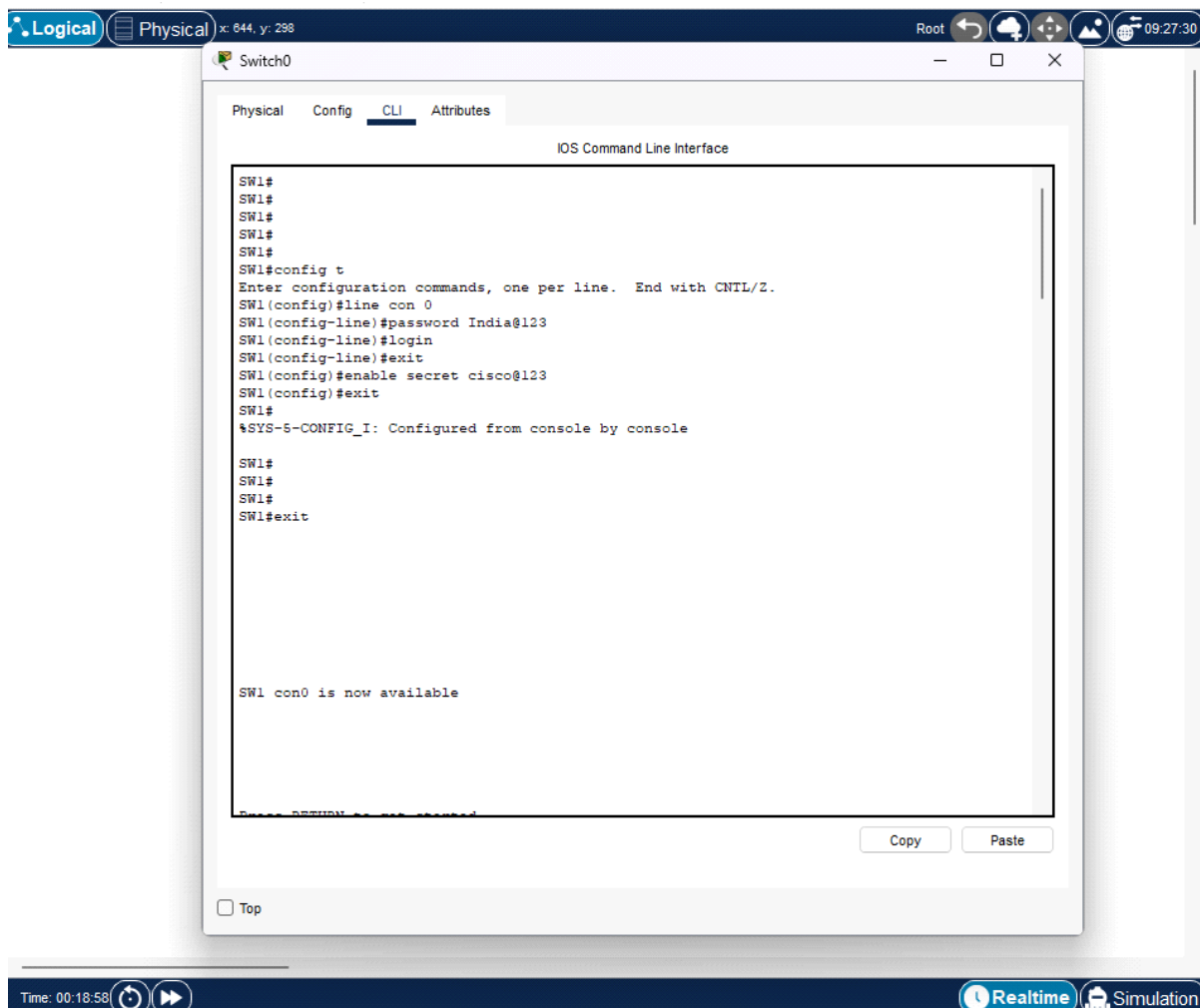
A terminal window with a dark background and light text. The title bar shows 'bash' on the left and a 'Copy code' button on the right. The terminal displays a series of commands and their outputs for configuring a switch. The commands are: 'enable', 'configure terminal', 'interface range fa0/1 - 24', 'description Connected to LAN', 'no shutdown', 'exit', 'vlan 10', 'name Sales', 'exit', 'interface vlan 10', 'ip address 192.168.10.1 255.255.255.0', 'no shutdown', 'exit', and 'write memory'.

```
bash
Switch> enable
Switch# configure terminal
Switch(config)# interface range fa0/1 - 24
Switch(config-if-range)# description Connected to LAN
Switch(config-if-range)# no shutdown
Switch(config-if-range)# exit
Switch(config)# vlan 10
Switch(config-vlan)# name Sales
Switch(config-vlan)# exit
Switch(config)# interface vlan 10
Switch(config-if)# ip address 192.168.10.1 255.255.255.0
Switch(config-if)# no shutdown
Switch(config-if)# exit
Switch# write memory
```

- **Test Your Configuration**

- Use the simulation mode to test the network configuration.
- Add devices (PCs, routers, etc.) and connect them to the switch to ensure that everything is working as expected.

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RESULT:

Thus, the experiment of customizing switch was studied successfully.