Exp No:6 Customize Switch with Network Modules using Cisco Packet Tracer

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Aim:

To Customize Switch with Network Modules using Cisco Packet Tracer

1. Open Cisco Packet Tracer

- Launch Cisco Packet Tracer on your computer.

2. Add a Switch to Your Workspace

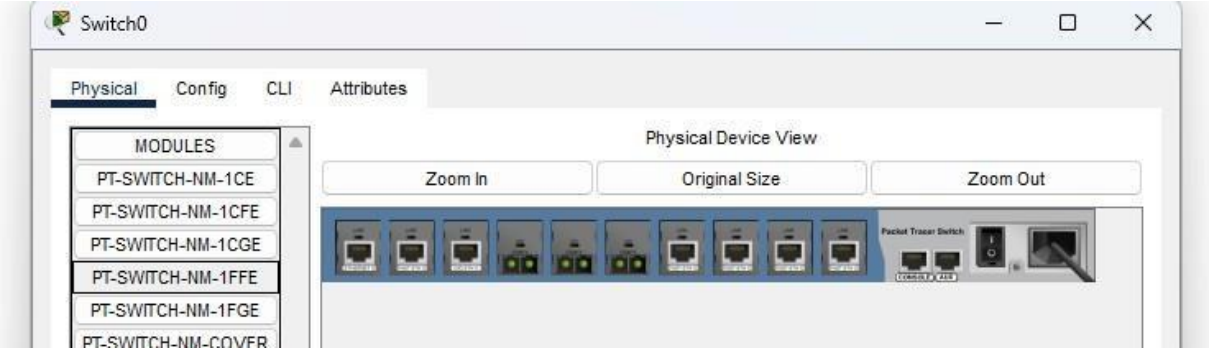
- In the device toolbar (usually on the left side of the screen), locate the "Switches" section.
- Drag and drop a switch model onto the workspace. For instance, you might choose a model like the "2950" or "2960."

3. 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.

4. 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.
- Drag the module from the list of available modules and drop it into the slot on the switch.



5. Configure the Modules and save the configuration

- 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.

Config the hostname of the switch

```
Switch>enable
Switch#
Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#
Switch(config)#hostname grp
grp(config)#exit
grp#
%SYS-5-CONFIG_I: Configured from console by console
```

Set the message of the day(MOTD) banner for the switch

```
grp(config)#banner ?
  motd  Set Message of the Day banner
grp(config)#banner motd ?
  LINE  c banner-text c, where 'c' is a delimiting character
grp(config)#banner motd $
Enter TEXT message.  End with the character '$'.
**********************************
only authorised user allowed
**********************************
$
```

Config the line console password and enable secret password

```
grp(config)#line
% Incomplete command.
grp(config)#
grp(config)#
grp(config)#
grp(config)#line con 0
grp(config-line)#password grp@123
grp(config-line)#login
grp(config-line)#
grp(config-line)#
grp(config-line)#exit
grp(config)#
grp(config)#
grp(config)#enable secret grp@456
grp(config)#
grp(config)#
grp(config)#exit
grp#
%SYS-5-CONFIG_I: Configured from console by console
```

```
User Access Verification

Password:

grp>enable
Password:
grp#
```

Show the Vlan

```
grp>enable
Password:
grp#show vlan

VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Fa0/1, Fa1/1, Fa2/1, Fa3/1
                                                Fa4/1, Fa5/1, Fa6/1, Gig7/1
                                                Gig8/1, Fa9/1
1002 fddi-default                     active
1003 token-ring-default               active
1004 fddinet-default                  active
1005 trnet-default                    active

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------
1    enet  100001     1500  -      -      -        -    -        0      0
1002 fddi  101002     1500  -      -      -        -    -        0      0
1003 tr    101003     1500  -      -      -        -    -        0      0
1004 fdnet 101004     1500  -      -      -        ieee -        0      0
1005 trnet 101005     1500  -      -      -        ibm  -        0      0

VLAN Type  SAID       MTU   Parent RingNo BridgeNo Stp  BrdgMode Trans1 Trans2
---- ----- ---------- ----- ------ ------ -------- ---- -------- ------ ------

Remote SPAN VLANs
------------------------------------------------------------------------------

Primary Secondary Type              Ports
------- --------- ----------------- ------------------------------------------
```

Naming the VLAN

```
grp#config t
Enter configuration commands, one per line.  End with CNTL/Z.
grp(config)#vlan 10
grp(config-vlan)#name sale
grp(config-vlan)#exit
grp(config)#
```

Assign Interface to VLAN

```
% Invalid input detected at     marker.

grp(config-if)#grp(config-if)#
grp(config-if)#exit
grp(config)#interface FastEthernet3/1
grp(config-if)#
grp(config-if)#exit
grp(config)#
grp(config)#
grp(config)#interface FastEthernet0/1
grp(config-if)#
grp(config-if)#
grp(config-if)#switchport access vlan 10
grp(config-if)#exit
```

Assign IP address to VLAN

```
Switch>enable
Switch#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#vlan 10
Switch(config-vlan)#name sales
Switch(config-vlan)#exit
Switch(config)#
Switch(config)#interface vlan 10
Switch(config-if)#
%LINK-5-CHANGED: Interface Vlan10, changed state to up

Switch(config-if)#ip address 192.168.10.1 255.255.255.0
Switch(config-if)#no shutdown
Switch(config-if)#exit
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#write memory
Building configuration...
[OK]
Switch#
```

Result:

Thus successfully configured and customize switch with network modules using cisco packet tracer has been verified .