

**Exp No:6      Customize Switch with Network Modules using Cisco Packet Tracer****Date:27.08.24****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**

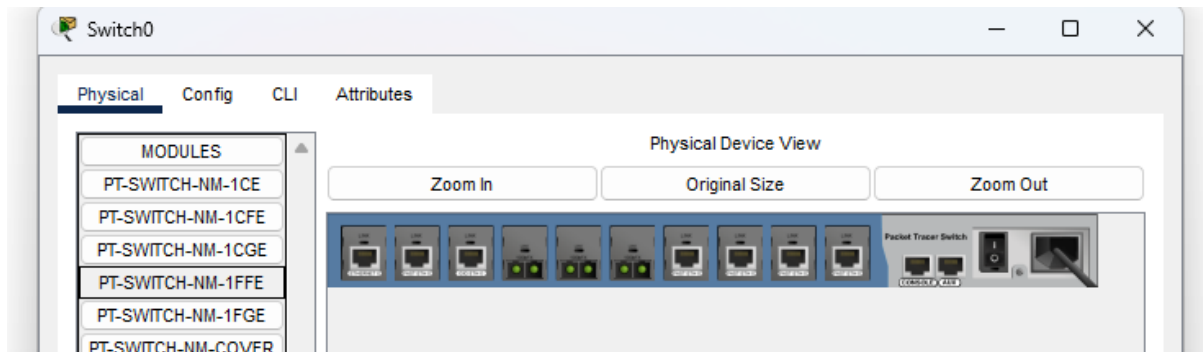
- In the device toolbar (usually on the left side of the screen), locate the "Switches" section.
- Drag and drop a switch model onto the workspace. For instance, you might choose a model like the "2950" or "2960."

**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 .