

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 .