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Section: S2-A

## **Task-3**

**3.Configure of basic switch setup using Cisco network switch using cisco packet tracer.**

### **Step 1: Setting up the Network Topology**

**1.Open Cisco Packet Tracer.**

**2.Add devices:**

- Drag and drop a Cisco switch (e.g,2960) onto the workspace.
- Drag and drop two or more PCs onto the workspace.

**3.Connect devices:**

- Use the Connection option to select the Copper Straight Through Cable.
- Connect each PC to the switch using the FastEthernet ports(e.g., PC0 to FastEthernet0/1, PC1 to Ethernet0/2)

### **Step 2: Configuring the switch**

**1.Open the CLI (Command-Line interface) of the switch .**

- Click on the switch and go to the CLI tab.

```
Physical  Config  CLI  Attributes
IOS Command Line Interface

Press RETURN to get started.

Switch>enable
Switch#configure terminal
      ^
% Invalid input detected at '^' marker.

Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname #1
#1(config)#interface vlan 1
#1(config-if)#ip address 192.168.1.1 255.255.255.0
#1(config-if)#no shutdown

#1(config-if)#
%LINK-5-CHANGED: Interface Vlan1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to up

#1(config-if)#exit
#1(config)#exit
#1#
%SYS-5-CONFIG_I: Configured from console by console

#1#write memory
Building configuration...
[OK]
#1#
```

## Router Configuration Process:

### 1.Enter privileged EXEC mode:

Switch>enable

Switch#

### 2.Enter global configuration mode:

Switch#configure terminated

### 3.Configure the Switch host name (optional):

Switch(config)#hostname #1

### 4.Configure VLAN 1(default VLAN)interface with an Ip address

\$1(config)#interface vlan 1

\$1(config-if)#ip address 192.168.1.1 255.255.255.0

\$1(config-if)#no Shutdown

\$1(config-if)#exit

\$1(Config)#

### **5.Save the Configuration:**

\$1(config)#exit

\$1#writememory

### **Step 3:Configure PCs**

#### **1.Assign IP address to PCs:**

- Click on each PC and go to the Desktop tab.
- Open the ip Configuration and assign an address within the same subnet as the switches VLAN 1 interface .For example

PC0:IP Address:192.168.1.2,Subnet Mask:255.255.255.0

PC1:Ip Address:192.168.1.3,Subnet Mask:255.255.255.0

### **Step 4:Testing Connectivity**

#### **1.Ping Between PCs:**

- Open the Command Prompt on one of the Pcs(eg,.PC0)
- Use the ping Command to check connectivity to the other PC(e.g,. ping 192.168.1.3)

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128
Reply from 192.168.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

