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section-7

Experiment 3. Configuration of basic switch setup using Huawei/Cisco network switch using cisco packet tracer.

Step 1: Setting Up the Network Topology

1. **Add devices:**
   - Drag and drop a Cisco switch (e.g., 2960) onto the workspace.
   - Drag and drop two or more PCs onto the workspace.
2. **Connect devices:**
   - Use the `Connections` 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 FastEthernet0/2).**

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.**

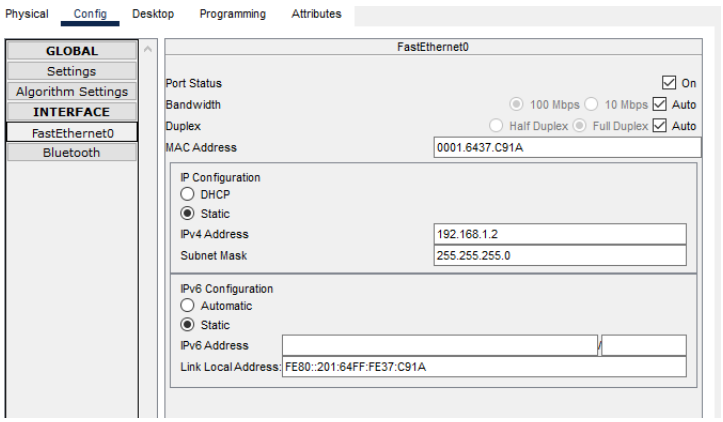
```
switch>enable
switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
switch(config)#hostname s1
s1(config)#interface vlan 1
s1(config-if)#ip address 192.168.1.1 255.255.255.0
s1(config-if)#no shutdown
s1(config-if)#
s1(config-if)#exit
s1(config)#exit
s1#
%SYS-5-CONFIG_I: Configured from console by console

s1#write memory
Building configuration...
[OK]
s1#
```

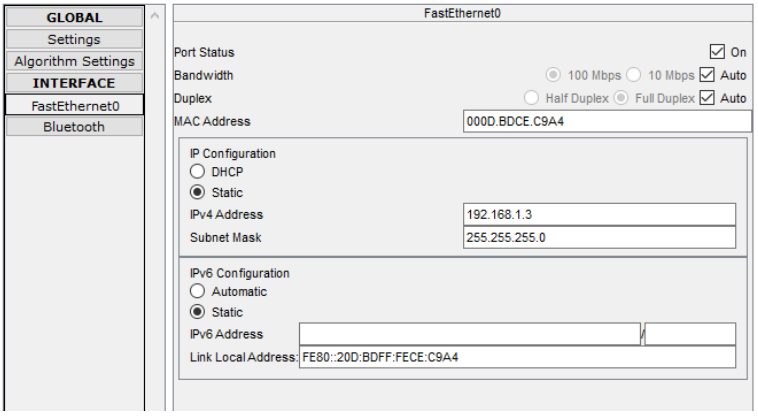
2. **Step 3:**

Configuring PCs

3. **Assign IP addresses to PCs:**
   - Click on each PC and go to the `Desktop` tab.
   - Open the `IP Configuration` and assign an IP address within the same subnet as the switch's VLAN 1 interface. For example:
     1. PC0: IP Address: 192.168.1.2, Subnet Mask: 255.255.255.0
     2. **PC1: IP Address: 192.168.1.3, Subnet Mask: 255.255.255.0**



pc1



pc0

Step 4: Testing Connectivity

1. **Ping between PCs:**
   - Open the `Command Prompt` on one of the PCs (e.g., 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 = 1ms, Average = 0ms

C:\>
```