

Program 13

Aim: To construct a WLAN and make the nodes communicate wirelessly.

Topology , Procedure and Observation:

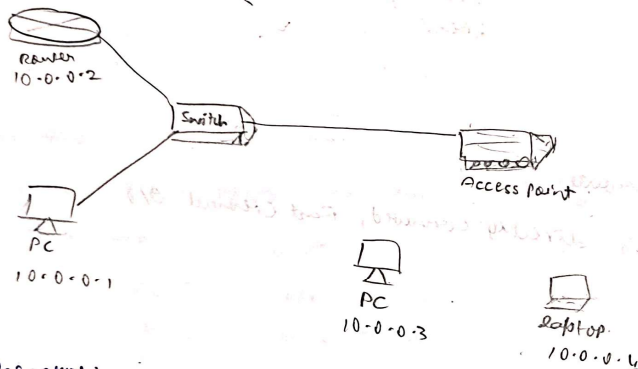
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Lab 13

WLAN

Aim: To construct a wireless LAN and make the nodes communicate wirelessly.

Topology:

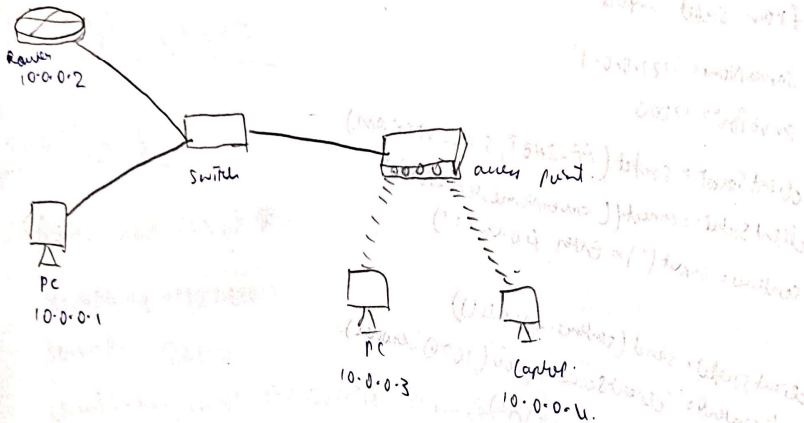


Procedure:

1. Create topology as given above & configure the devices.
2. configure access point:
click access point → confy → port1.
SSID: hmsce
select ☒ WEP
Set key : 12 34 56 7 8 9 0
3. configure PC & laptop with wireless standards:
 - switch off device.
 - Drag the existing PT-HOST-VM-1A to the component listed in the LHS of physical.
 - Drag WM P300N wireless interface to the empty port.
 - switch on the device.
4. In config table, a new wireless interface was added.

5. Configure the device by entering SSID, WEP, WEP key, IP address & gateway.

Topology after wireless configuration:



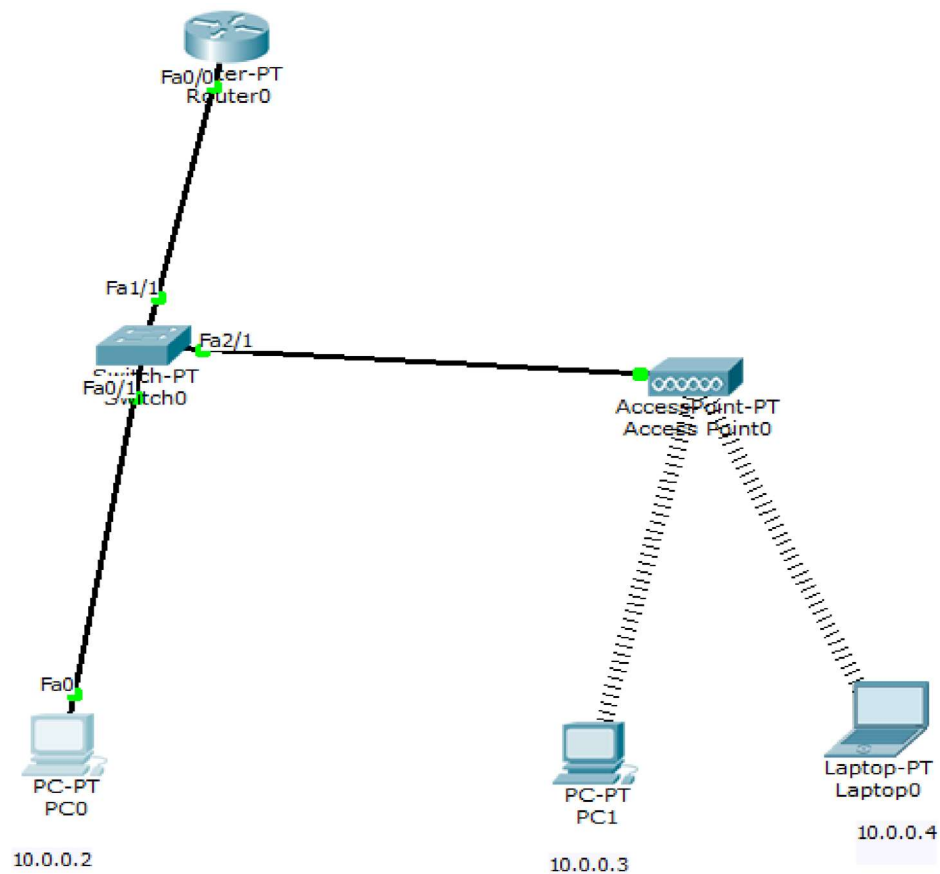
6. Ping from every device to every other device to check for connection.

Observation:

1. we were able to ping from every device to every other device.
2. every device is now connected to every other device in the WLAN.

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Screen Shots:



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PC0
Physical Config Desktop Custom Interface
Command Prompt
Packet Tracer PC Command Line 1.0
PC>ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:

Reply from 10.0.0.3: bytes=32 time=22ms TTL=128
Reply from 10.0.0.3: bytes=32 time=6ms TTL=128
Reply from 10.0.0.3: bytes=32 time=3ms TTL=128
Reply from 10.0.0.3: bytes=32 time=7ms TTL=128

Ping statistics for 10.0.0.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 3ms, Maximum = 22ms, Average = 9ms

PC>ping 10.0.0.4

Pinging 10.0.0.4 with 32 bytes of data:

Reply from 10.0.0.4: bytes=32 time=19ms TTL=128
Reply from 10.0.0.4: bytes=32 time=5ms TTL=128
Reply from 10.0.0.4: bytes=32 time=6ms TTL=128
Reply from 10.0.0.4: bytes=32 time=7ms TTL=128

Ping statistics for 10.0.0.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 5ms, Maximum = 19ms, Average = 9ms

PC>
```