

Program 13

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

Topology , Procedure and Observation:

Date / /

Exp 11

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Topology :-

Router 10.0.0.2

Switch (Fa0/0, Fa0/1, Fa1/0, Fa1/1)

PC 10.0.0.1

D11 10.0.0.3

Laptop 0 10.0.0.4

Access Point

Procedure:-

- 1) Place a switch & connect it to a PC, router & an access point
- 2) Place a PC & laptop without any wired connection
- 3) Configure PC with IP address 10.0.0.1 & subnet 0
- 4) Configure Access Point

Port 1 → SSID Name → Enter any name → select

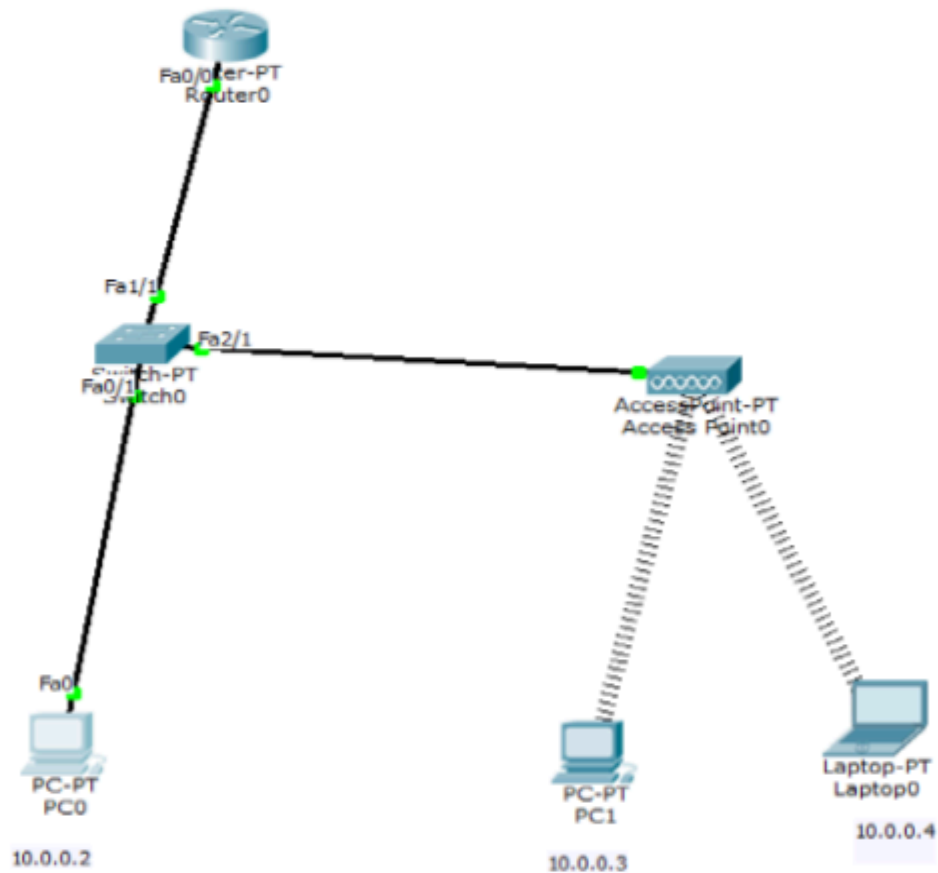
4. give any 10 digit key

- 5) Configure PC & Laptop with wireless standards
- 6) Switch off the device. Drag the existing B-HOST-AM to the component listed in the LMS Drag WMP3000 Wireless interface to the empty port Switch on the device
- 7) In config tab, a new wireless interface should have been added
- 8) Ping from one device to another wirelessly

Observation

WLAN enables wireless network communication. It uses radio waves for connectivity. WLAN connects devices wirelessly within a local area. It eliminates the need for physical cables.

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 = 5ms

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 = 5ms

PC>
```