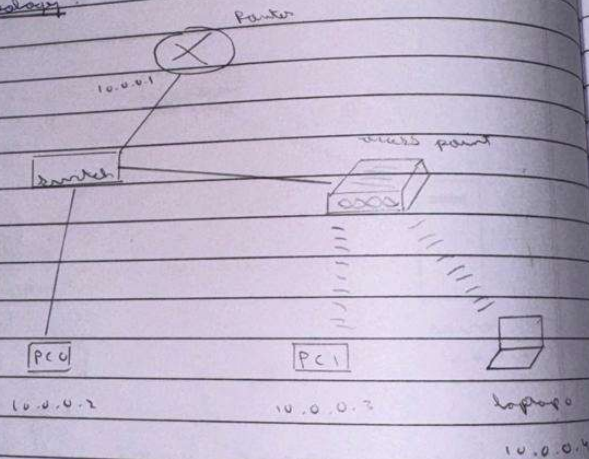


LAB-2

Aim
To construct a WLAN (wireless LAN) and make nodes communicate wirelessly

Devices used:
Router, switch, PC, access point, laptop

TopologyProcedure

- (i) Construct the above topology. Configure the PC and Router as statically done
- (ii) Configure access point 1 - Port 1 → SSID Name - any name (WLAN) Port 2
- (iii) Select WEP and give any 10 digit hex key

(iv) Configure PC

(v) In PC, configure static IP address, subnet mask, gateway, DNS

(vi) In the router, configure static IP address, subnet mask, gateway, DNS

(vii) Do the

(viii) Ping from PC to Router

show

- Device
- IP
- Subnet
- Gateway
- Ping

(vi) Configure PC1 and laptop with wireless modules standards

(v) In PC1,
enable the device, drag existing PT-HOST-NM-1A-M
the components listed in WLS. Drag WMP250N
wireless interface to empty port and attach to
PC

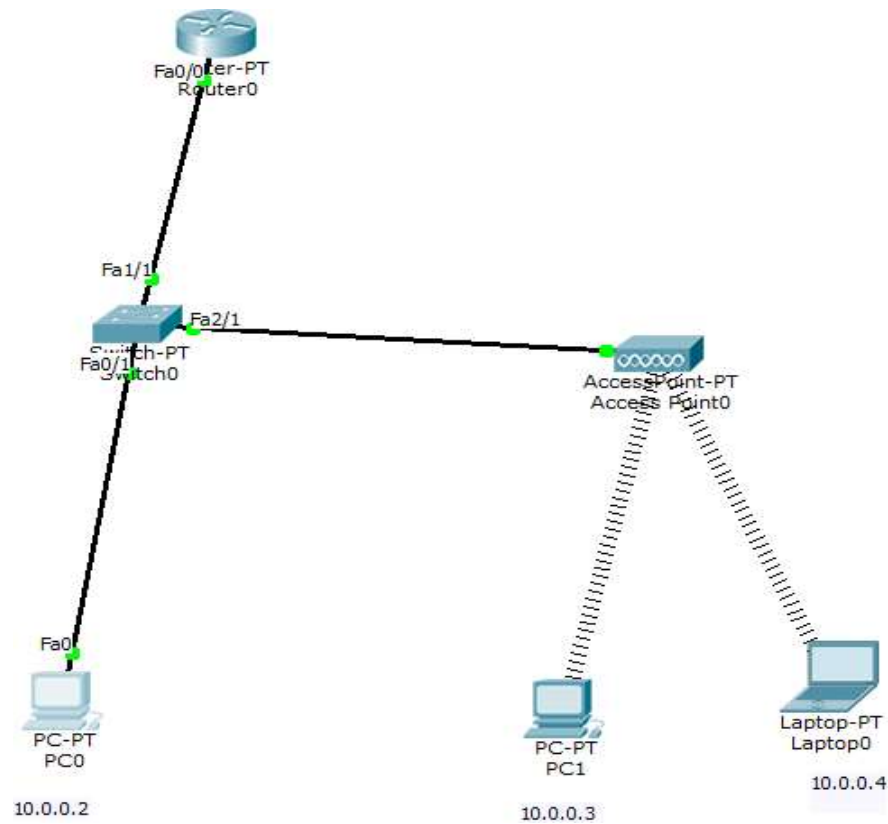
(vi) In the config tab, a new wireless interface
would have been added. Now configure SSID,
WEP, WEP key, IP address and gateway as
normally done to the device.

(vii) Do the same for the laptop

(viii) Ping from every device to ~~or~~ every
other device to check the result.

Observations:

- Device could connect to WLAN as long as they
are within range.
- Signal strength decreases with distance.
- Ping is successful.



```
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>
```