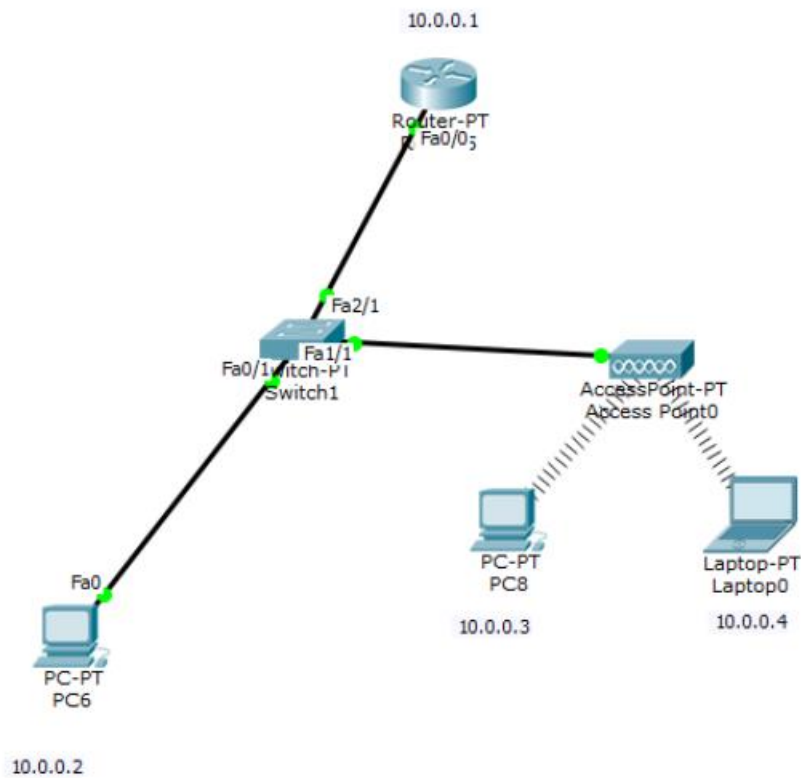


Experiment -11

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



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=21ms TTL=128
Reply from 10.0.0.3: bytes=32 time=9ms TTL=128
Reply from 10.0.0.3: bytes=32 time=13ms TTL=128
Reply from 10.0.0.3: bytes=32 time=12ms 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 = 9ms, Maximum = 21ms, Average = 13ms

PC>
```

Command Prompt

```
Packet Tracer PC Command Line 1.0
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=18ms TTL=128
Reply from 10.0.0.4: bytes=32 time=9ms TTL=128
Reply from 10.0.0.4: bytes=32 time=5ms TTL=128
Reply from 10.0.0.4: bytes=32 time=12ms 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 = 18ms, Average = 11ms

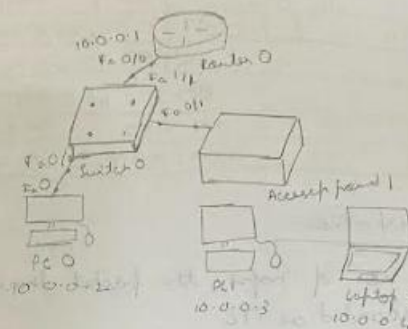
PC>
```

10/8/23

Lab-11

Aim:- To Construct a WLAN and make the nodes communicate wirelessly

Topology:-



Procedure:-

- Construct the above topology
- Configure PC0 and Router 0 as normally done
- Configure Access Point 1 - Port 1 → SSID Name - WLAN
- Select 802.11g and give any 10 digit hex key - 1234567890
- Config R1 & Laptop with wireless standards
- Switch off the device. Drag the existing ~~PT-HOST~~ PT-HOST - VM - IAM to the component listed in LHS. Drag WMP300N wireless interface to the empty port. Switch on the device.
- In the config table a new wireless interface would have been added. Now configure SSID, WEP, WEP key, IP address and gateway to the device.
- Ping from ~~every~~ every device to every other device.

Ping Output:-

Packet Tracer PC command line 1.0

PC > Ping 10.0.0.3

Pinging 10.0.0.3 with 32 bytes of data:
Request timed out.

Reply from 10.0.0.3: bytes=32 time=0ms TTL=127

Reply from 10.0.0.3: bytes=32 time=0ms TTL=127

Reply from 10.0.0.3: bytes=32 time=0ms TTL=127

Ping statistics for 10.0.0.3

Packets: sent = 4, received = 3, lost = 1 (25% loss)

Approximate round trip times in milliseconds

min = 0ms max = 1ms, Avg = 0ms

Observation:-

- A WLAN is a group of collocated devices that form a network based on radio transmissions
- Data sent in packets contain layers with labels and instructions. MAC address to end points for routing.
- The access point is the base station that serves as a hub to ~~which~~ which other stations connect.
- with an access point we can connect to multiple devices wirelessly and transmit data

N.D.
31/8/2023