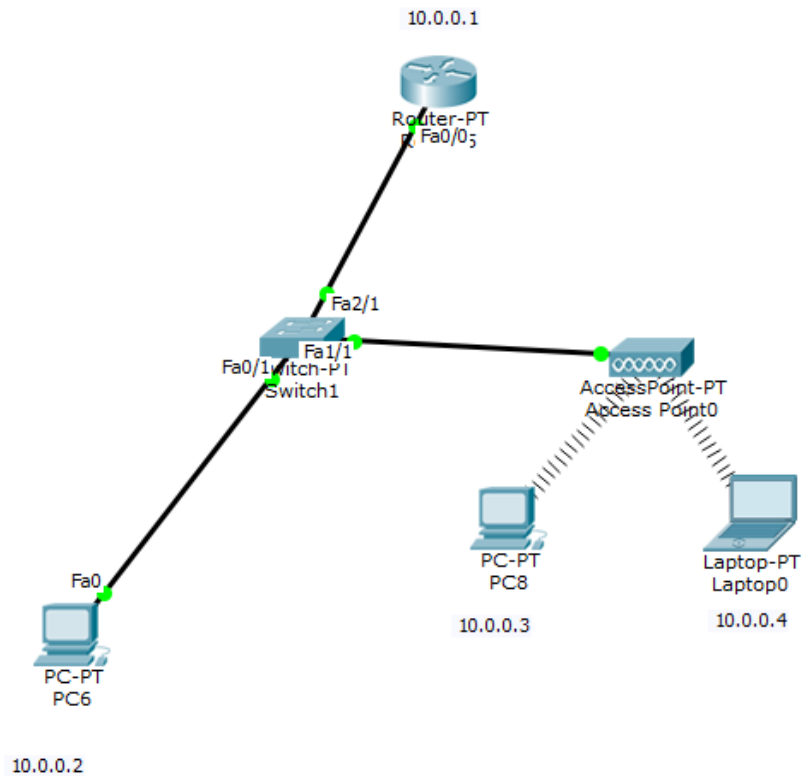


Experiment -11

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>

```
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>
```

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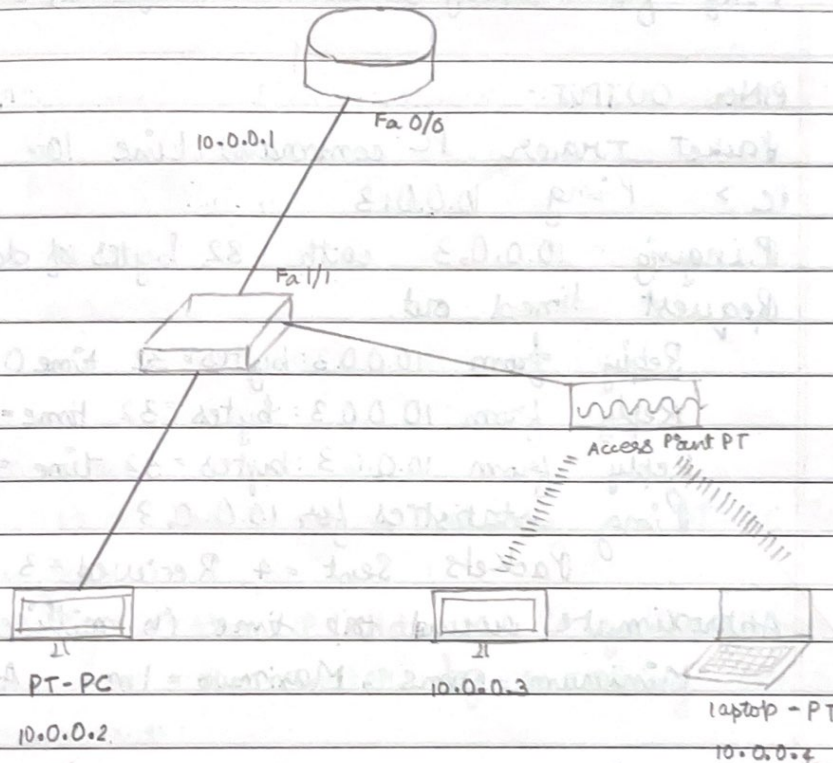
Bafna Gold

Date: Page:

WLAN

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

Topology:



Procedure:

- Construct a topology with a router, switch, an access point, and two PT-PC's and a laptop PT
- configure PO & router 0 as done normally
- configure Access point 1 - Port 1 → SSID Name - WLAN.
- Select WEP & give any 10 digit hexadecimal key - 1234567890
- configure PT-PC & laptop with wireless standards
- switch off the device. Drag that existing

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PT-HOST-NM-1A1 to the component listed in the left hand side. Drag WMP300N wireless interface to the empty port switch on the device.

- In the config tab a new wireless interface would have been added. Now configure SSID, WEP, WEP Key, IP address and gateway to the device.
- Ping from every device to every other device.

PING OUTPUT:-

Packet Tracer PC command line 10

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=128

Reply from 10.0.0.3: bytes=32 time=0ms TTL=128

Reply from 10.0.0.3: bytes=32 time=2ms TTL=128

Ping statistics for 10.0.0.3

Packets: Sent = 4, Received = 3, Lost = 1 (25%)

Approximate round trip time in milliseconds:

Minimum = 0ms, Maximum = 1ms, Average = 0ms

10/10

Observation:

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