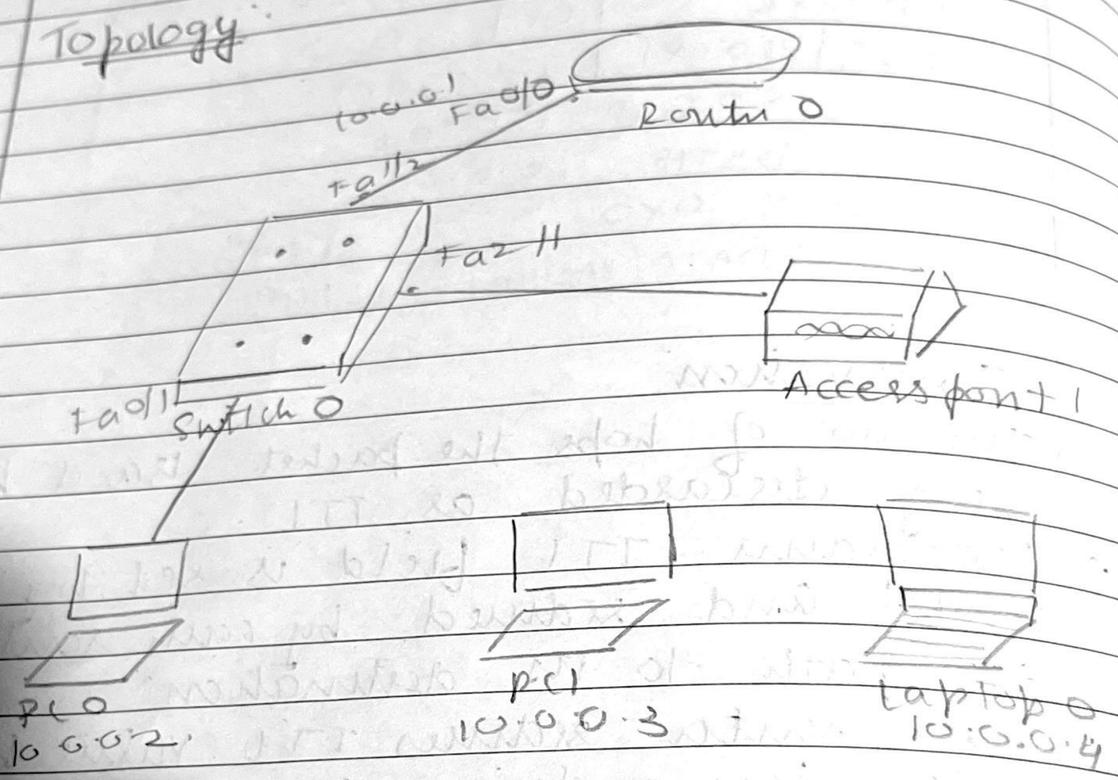
28°C Partly sunny

Search

Date
Page

AIM To construct a WLAN and make the nodes communicate wirelessly.

Topology:



Procedure:

1) Construct the above topology
2) Configure PC & router 0 as normally done
3) Configure access point 1 - Port 1 → SSID Name - WLAN
4) Select WEP & give any 10 digit wireless key - 1234567890
5) Configure PC1 & laptop with wireless NIC cards.
6) Switch off the device. Drag the existing PT-HOST-NM-1AM to the component listed in LHS. Drag WMP300N wireless

interface to the
In the conf
interface W
configure SS
and gateway
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interface to the empty port. Switch on the device

5) 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.

6) Ping from 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=20ms TTL=127

Reply from 10.0.0.3: bytes=32 time=20ms TTL=127

Reply from 10.0.0.3 bytes=32 time=2ms TTL=127

Reply from.

Ping Statistics for 10.0.0.3

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

Approximate round trip times in milliseconds

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

Observation

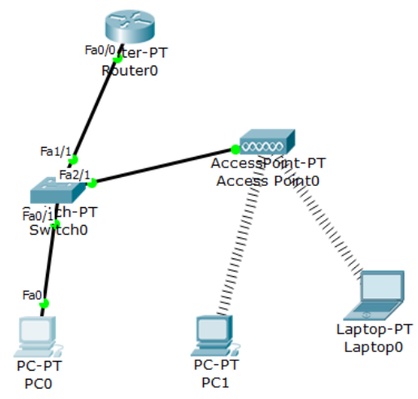
→ A WLAN is a group of connected devices that form a network based on radio transmissions

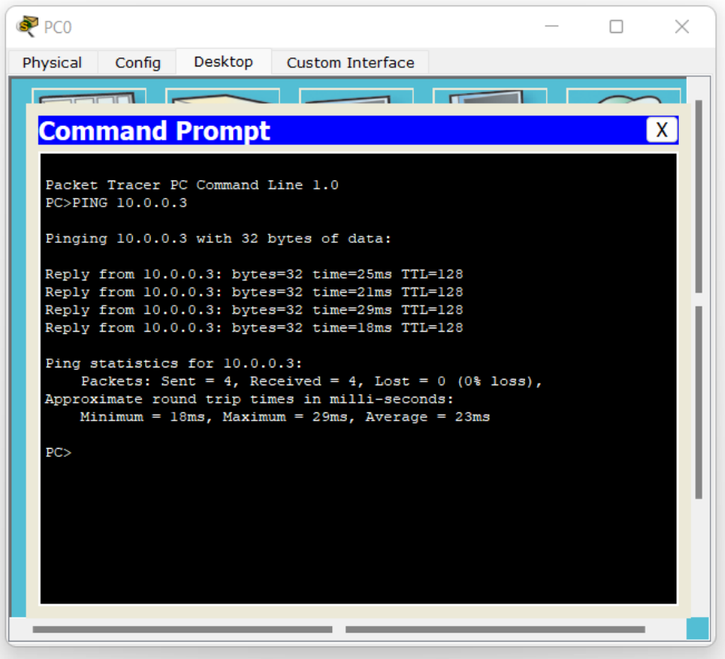
→ Data sent in packets contains layers with headers and destinations MAC address to endpoints for routing

→ The access point is the base station that services as a hub to which other stations connect with one access point we can connect to multiple devices wirelessly & transmit data.

e Edit Options View Tools Extensions Help

Logical | [Root] | New Cluster | Move Object | Set Tiled Background





Time: 00:11:39 | Power Cycle Devices | Fast Forward Time

Wireless Devices

Generic | Generic | Generic | WRT300N | Cell Tower | CO Server

Automatically Choose Connection Type

Scenario 0 | New | Delete | Toggle PDU List Window

Fire | Last Status | Source | Destination | Type | Color | Time(se | Periodic | Num | E