

WEEK 11

To construct a WLAN and make the nodes communicate wirelessly

OBSERVATION:

classmate
Date _____
Page _____

20/5/23

LAB-11

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

TOPOLOGY-

PROCEDURE -

- Construct the above topology.
- Configure PC0 & Router 0 as normally done.
- Configure Access point 1 - Port 1 → SSID Name - WLAN.
- Select WEP & give any 10 digit hex key - 1234567890.
- Configure PC1 & Laptop with wireless standards.
- Switch off the device. Drag the existing PT-HOST-NM-1AM to the component listed in LHS. 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 = 127

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

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

Ping Statistics for 10.0.0.3

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

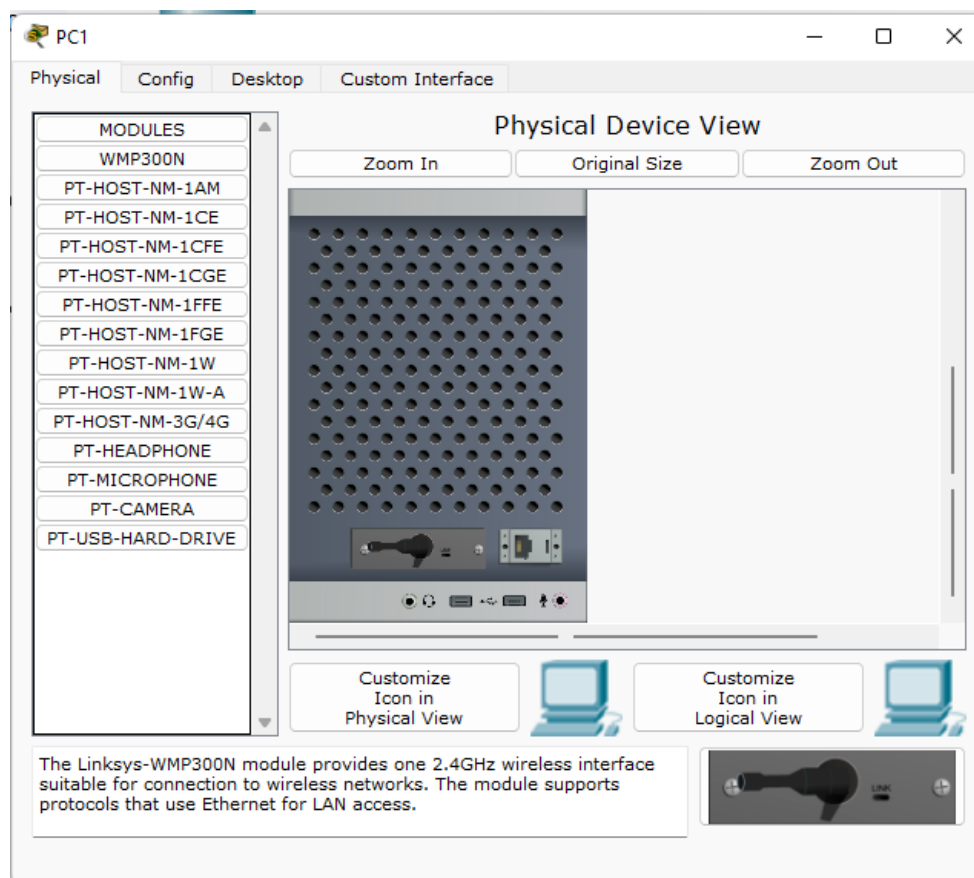
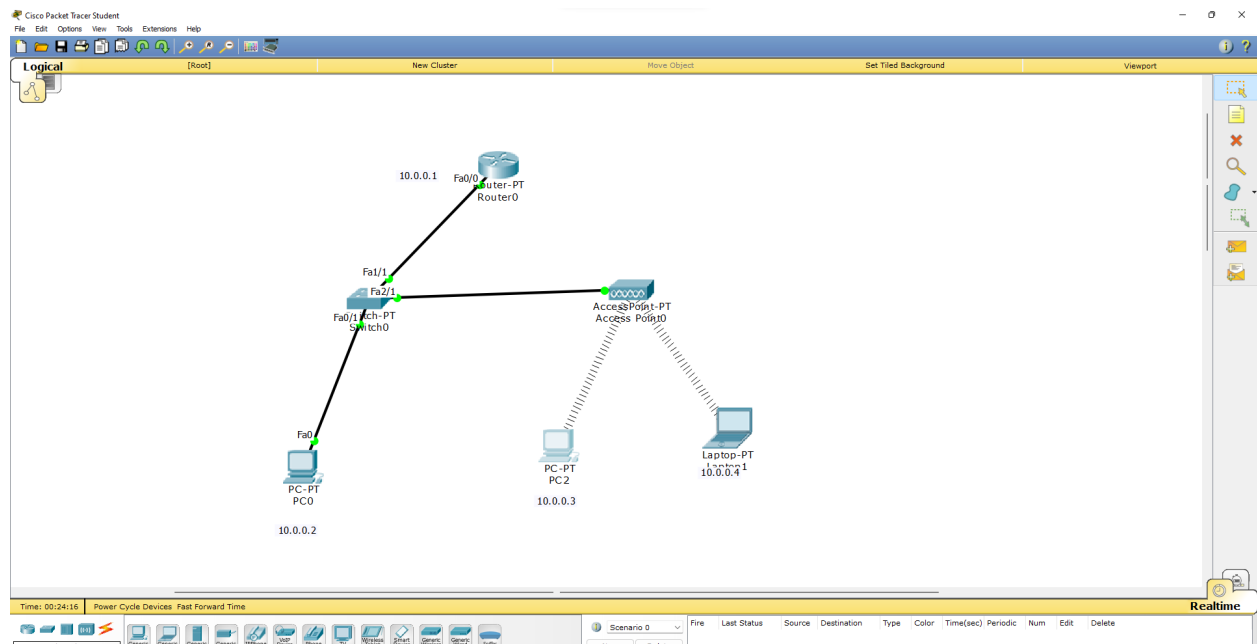
Approximate round trip times in milliseconds :

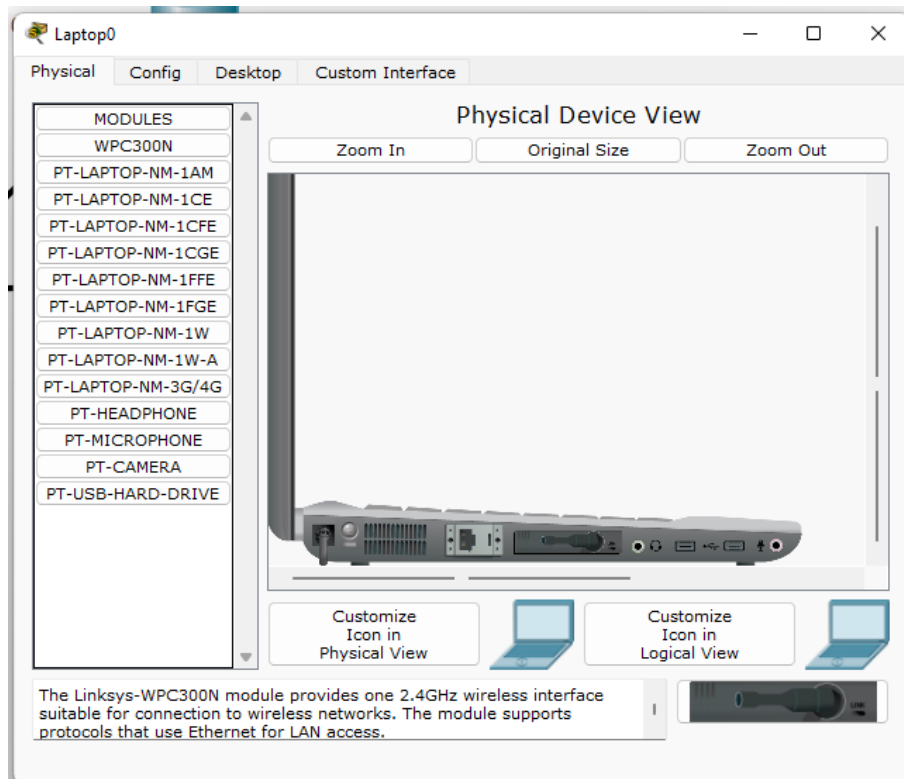
Minimum = 0ms , Maximum = 1ms , Average = 0ms

OBSERVATION:-

- A WLAN is a group of collocated 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 stations connect.
- With one access point we can connect to multiple devices wirelessly & transmit data.

TOPOLOGY:





OUTPUT:

