

WEEK 11

To construct a WLAN and make the nodes communicate wirelessly.

OBSERVATION:

10-8-23 WLAN

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

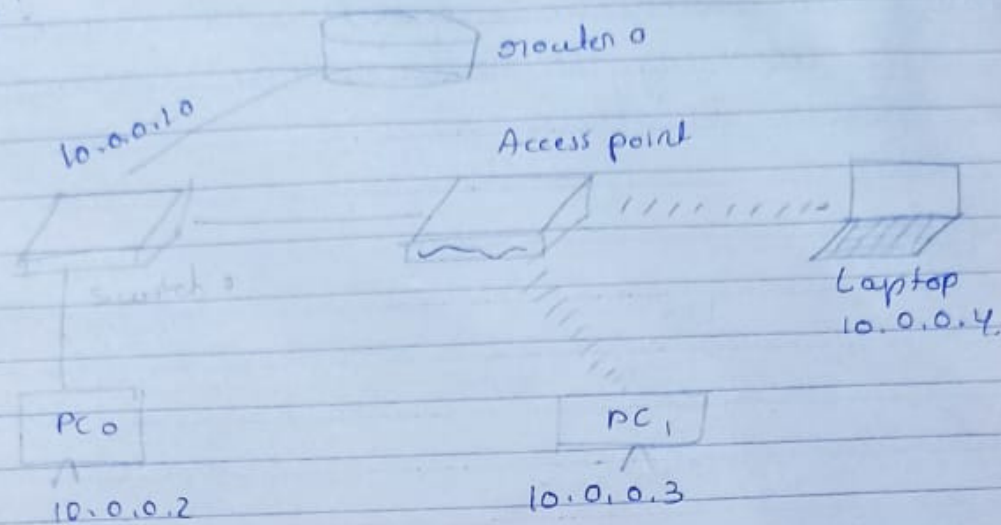
Topology

The diagram illustrates a network topology. A router with IP 10.0.0.16 is connected to a switch with IP 10.0.0.2 and an access point with IP 10.0.0.4. The switch is connected to PC0 with IP 10.0.0.2. The access point is connected to PC1 with IP 10.0.0.3 and Laptop 0 with IP 10.0.0.4.

Procedure

- 1) Construct above topology use access point-PT connect that to router set the ip address of the PC connected with wire & configure router.
- 2) Configure access point 1 → port 2 → Name → any name. Select WEP and give any 10 digit key here here - 1234567890
- 3) To configure PC and laptop wirelessly switch off the device drag the existing PT-host nm-1AM to component listed in UMS. Drag WMP 300 N wireless interface to the empty port 0 and switch on device.
- 4) Now in the config tab, a new wireless interface would have been added. Configure SSID, WEP, WEP key.
Router > enable
Router # config t
Router (config) # interface fast ethernet 0/0
Router (config-if) # ip address 10.0.0.16 255.0.0.0
Router (config-if) # no shut

result



in PC 0 (10.0.0.2)

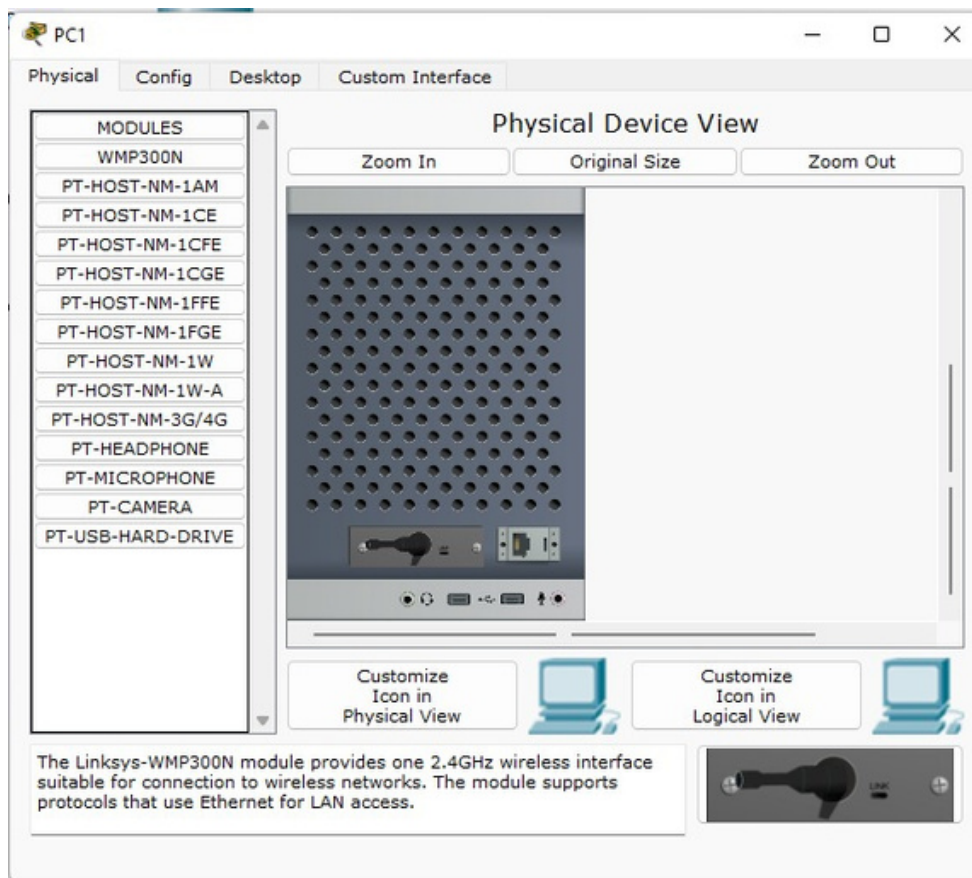
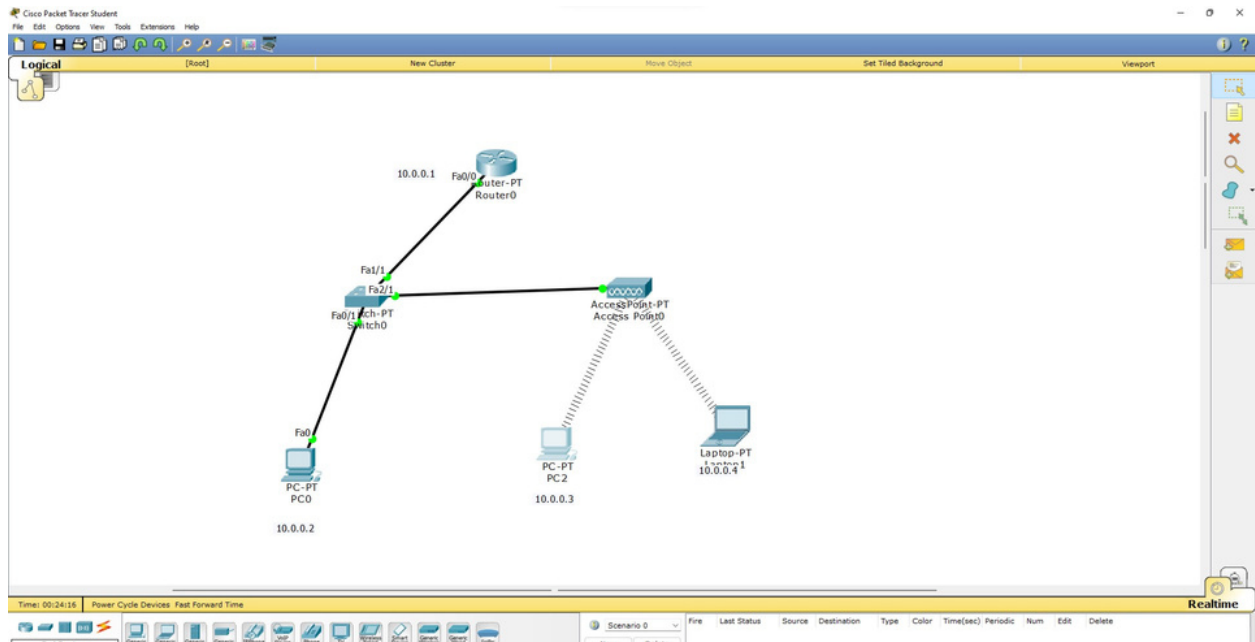
PC > ping 10.0.0.3
 ping 10.0.0.3 with 32 bytes of data
 reply from 10.0.0.3 bytes=32 time=21 ms TTL=128
 " " " " time=12 ms TTL=128
 " " " " time=6 ms TTL=128
 " " " " time=0 ms TTL=128

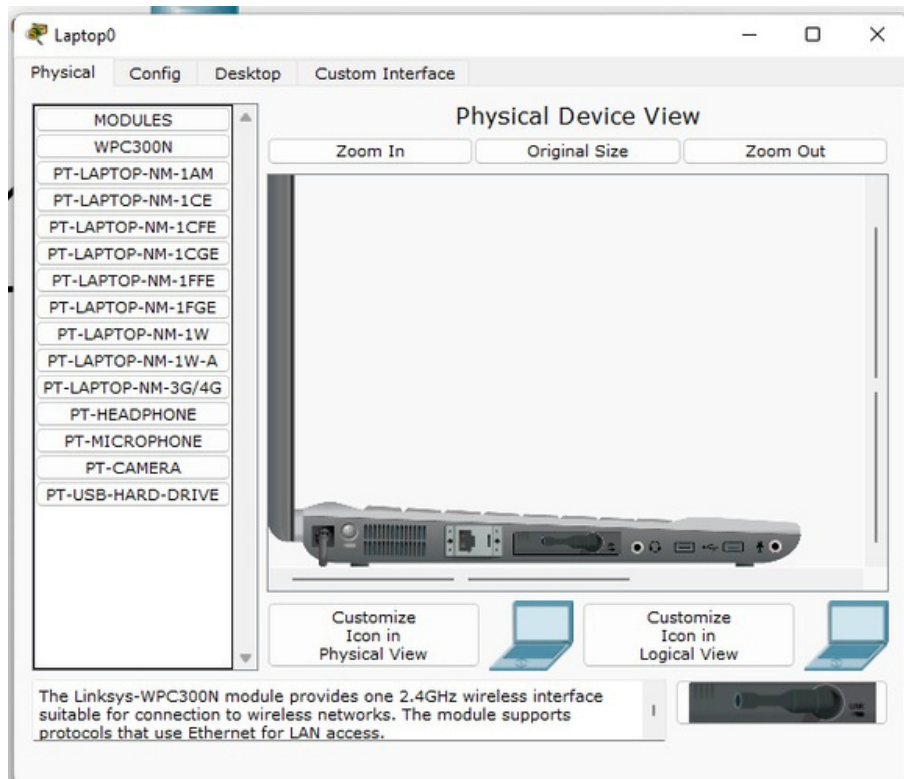
Ping statistics for 10.0.0.3
 packets sent=4, received=4 lost (0.0%)
 approximate round trip time in milliseconds
 minimum=6 ms, maximum=21 ms Avg=12 ms

observation

- 1) Wireless local area network (WLAN) is a group of isolated computer or other devices that form a network based on radio transmission rather than wire connections.
- 2) After the WLAN is setup, the lined connection appears in topology from access point.

TOPOLOGY:





OUTPUT:

