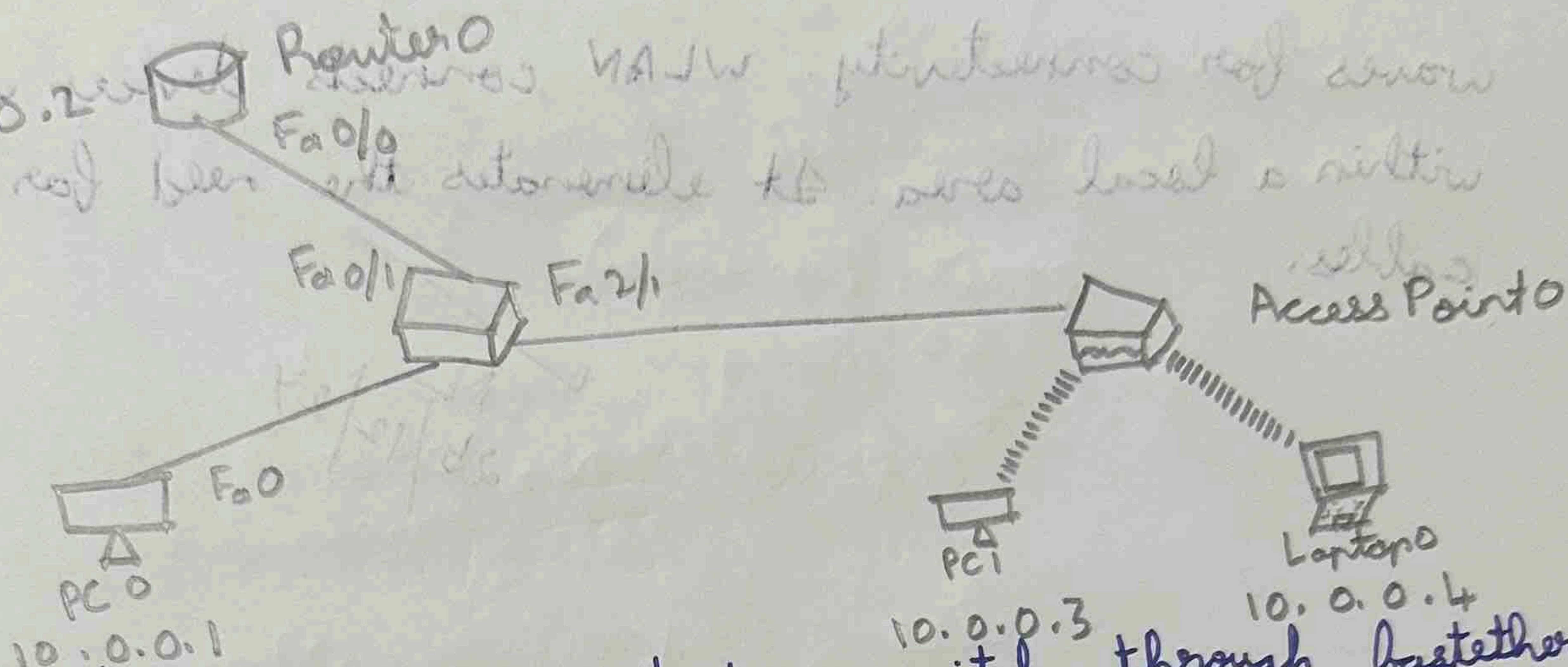


Exp-12: Construct a WLAN and Make nodes communicate wirelessly

Aim: To construct WLAN and nodes communicate wirelessly

Topology:



Connect a router and access point to a switch through fast ethernet interface. Connect a PC and set its ip address. Take a PC and a laptop and their ip addresses

Procedure:

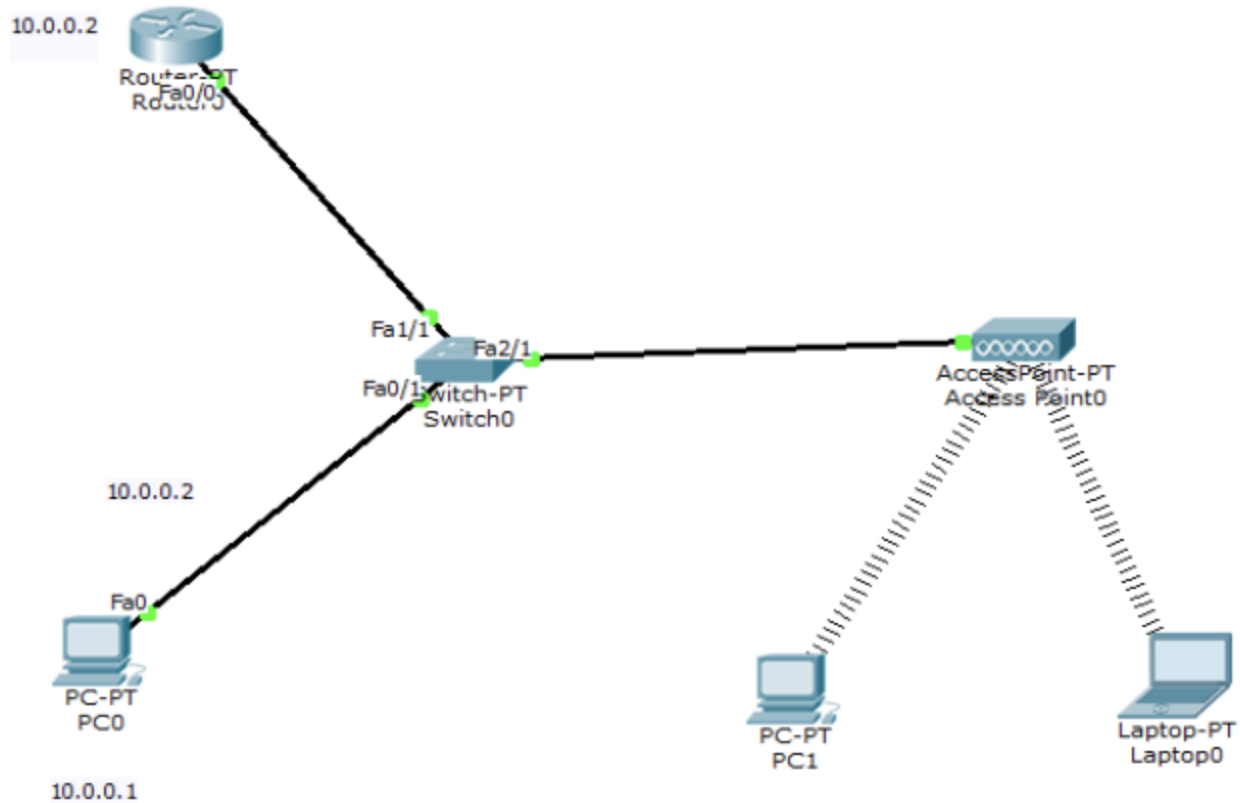
1. Drag a switch and connect it to a PC, router and access point
2. Place a PC and laptop without any wired connection
3. Configure PC0 with IP address 10.0.0.1 and router0
4. Configure Access Point:
Port1 → SSID Name → Enter any name → select WEP and give any 10 digit hex key - 1234567890
5. Configure PC1 and laptop with wireless standards
6. Switch off the device. Drag the existing PT-HOST-NM-1AM to the component listed in the LHS. Drag WMP300N wireless interface to the empty port. Switch on the device.
7. 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.

8. Ping from every device to every other device and see the results

Observations:

WLAN enables wireless n/w communication. It uses radio waves for connectivity. WLAN connects devices wirelessly within a local area. It eliminates the need for physical cables.

✓
26/12/24



IOS Command Line Interface

--- System Configuration Dialog ---

Continue with configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>enable

Router#config terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface fastethernet 0/0

Router(config-if)#ip address 192.168.1.1 255.255.255.0

Router(config-if)#no shut

Router(config-if)#

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit

Router(config)#

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