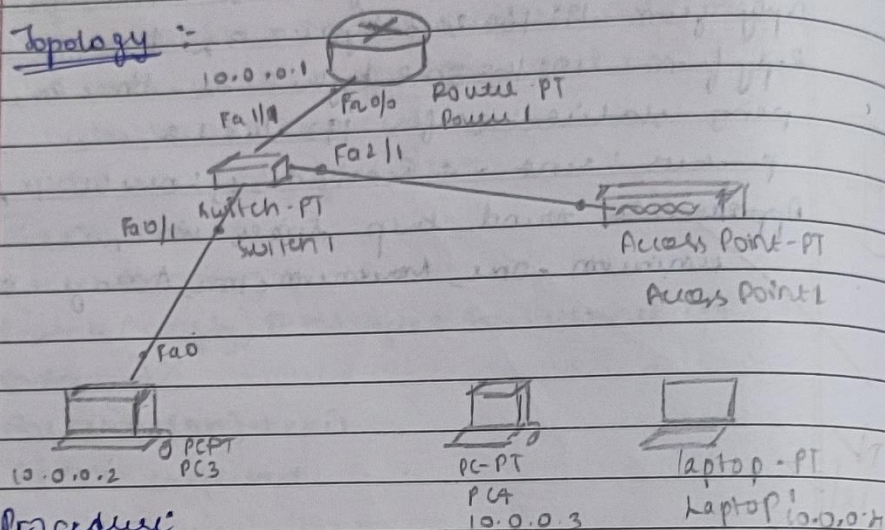


10/8/22

Experiment 10

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

Topology :-



Procedure:

- *) select a switch, router, Accesspoint-PT, two PC's a laptop and drop them on the workspace without the above topology
- *) PC, accesspoint and router are connected to the switch using copper straight through connection.
- *) configure the connected PC and router as normally done.
- *) configure access point-point 1 -> Set D Name as WLAN.
- *) select WEP and enter any 10 digit hex key - i.e 1234567890.
- *) to configure PC4 and laptop with wireless standards
- *) switch off the device. Drag enabling PT-Hot-VM-WLAN to the component listed

in the LHS. Drag WMP300N wireless interface to the empty port switch on the device.

*) PC4 → config → new wireless device interface would have been added, configure SSID, WEP, WEP key, IP address and Gateway to the device.

SSID → WLAN, authentication → select → WEP enter the same key → 1234567890

IP address - 10.0.0.3. and

Subnet mask → 255.0.0.0. will be.

to configure router.

Router > enable

Router # config t.

Router (config) # interface fastEthernet 0/0

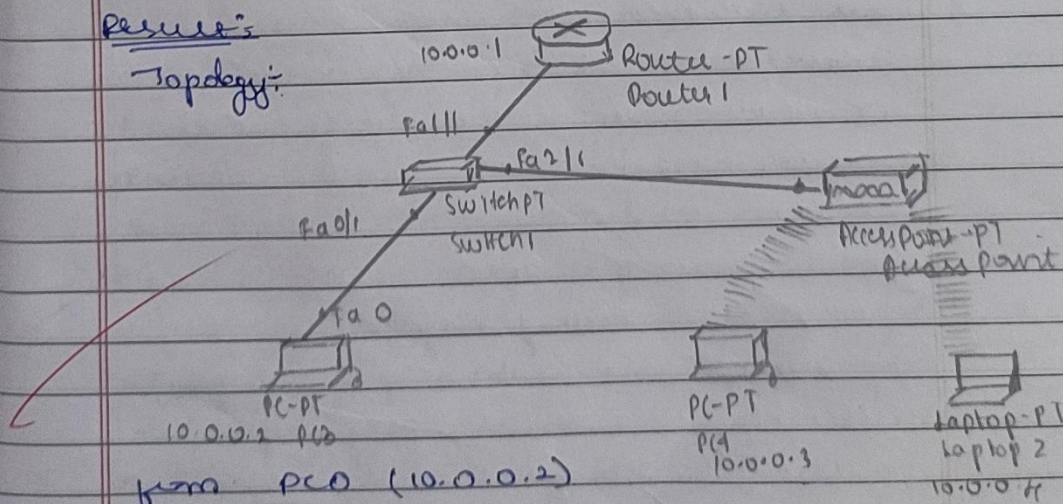
Router (config) # IP address 10.0.0.1 255.0.0.0.

Router (config) # no shut.

Router (config) # exit.

Results:

Topology:



from PC0 (10.0.0.2)

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 = 28

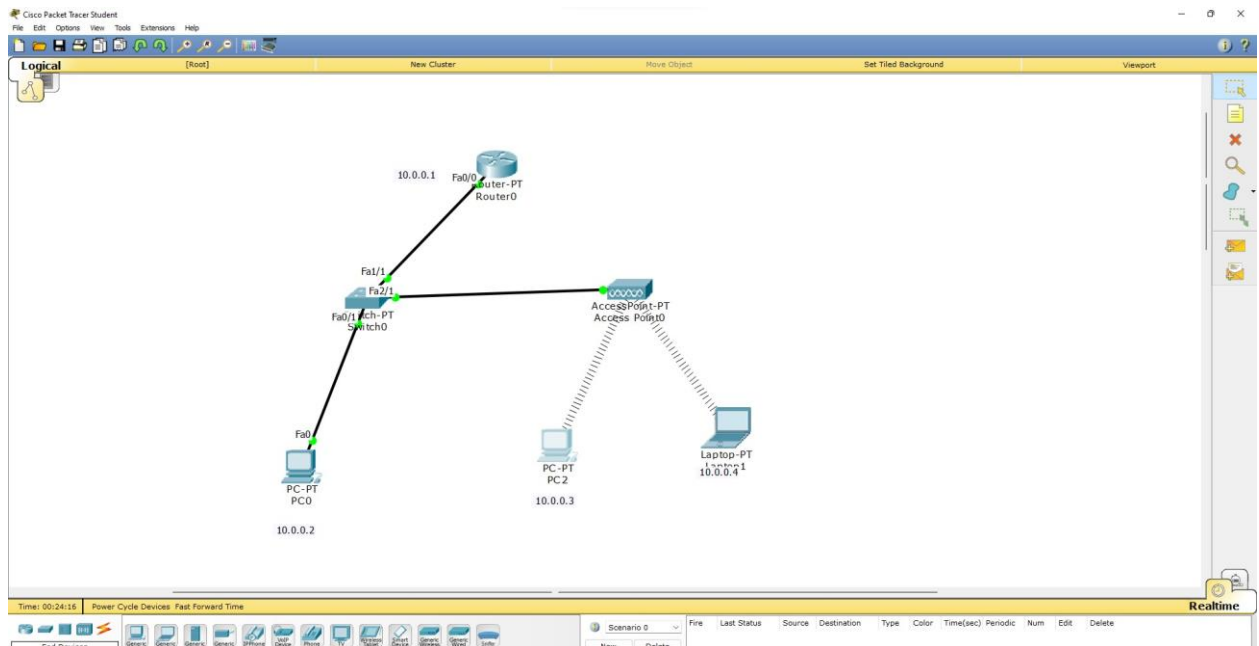
Reply from 10.0.0.3 bytes = 32 time = 13ms TTL = 64
 Reply from 10.0.0.3 bytes = 32 time = 26ms TTL = 64
 Reply from 10.0.0.3 bytes = 32 time = 0ms TTL = 64
 ping statistics for 10.0.0.3:

packets: sent = 4, Received = 4, loss = 0% (0/4 lost)
 Approximate round trip times in milliseconds:
 Minimum = 0ms, Maximum = 26ms, Average = 13ms.

Observation:

WLAN is a wireless computer network that links two or more devices using wireless communication to form a local area network.

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PC1

Physical Config Desktop Custom Interface

Physical Device View

Zoom In Original Size Zoom Out

Customize Icon in Physical View

Customize Icon in Logical View

The Linksys-WMP300N module provides one 2.4GHz wireless interface suitable for connection to wireless networks. The module supports protocols that use Ethernet for LAN access.

