

Ex. No: 8b

Date: - 13-9-2024

Wireless LAN

Aim:-

To configure wireless LAN using Cisco Packet Tracer.

Procedure:-

- 1) Create network 3 PCs & a wireless Router
- 2) Right-click on the wireless router. Note the IP address. It would be 192.168.0.1
 - Disable the DHCP Server
 - Save Settings
- 3) Click on wireless on the same page.
 - Change Network name to "MyHome Network"
 - Save Settings
 - Click on wireless security under wireless & change security mode to WEP from disabled.
 - Add Key 1: 0123456789
 - Save Settings
 - Then close the window.

4) Now assign IP to the PCs

PC0 = 192.168.0.5

→ gateway - 192.168.0.1

PC1 = 192.168.0.6

→ gateway - 192.168.0.1

PC2 = 192.168.0.7

gateway - 192.168.0.1

5) Now click on PC0

→ click physical option

→ Turn off that

→ Drag the port in the diagram to the left menu.

→ Drag the 'WMP300N' to the port from left

→ Turn on that

→ Now click on desktop → PC window

→ click connect → site information → connect

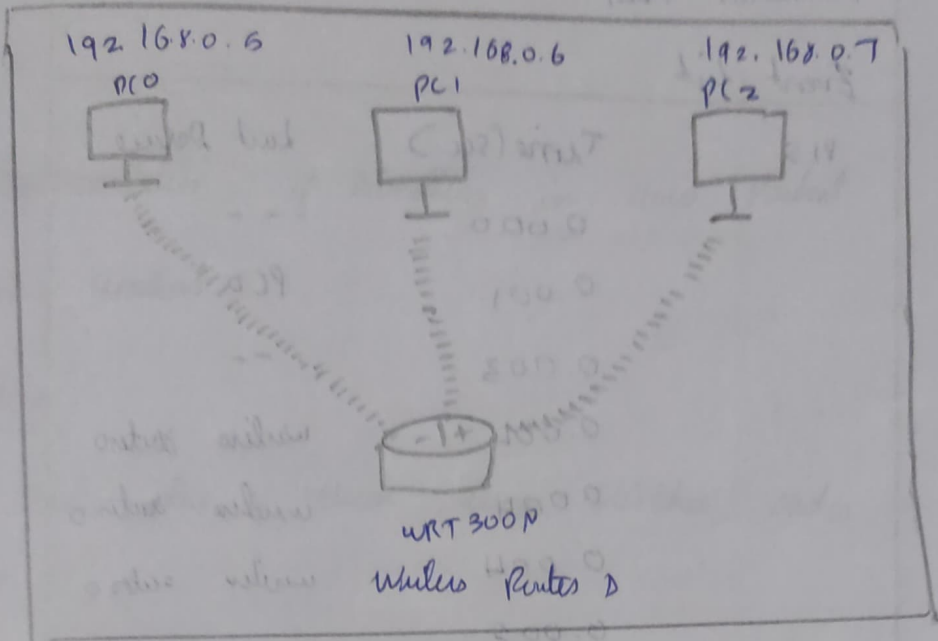
→ Type '0123456789' in the WEP key,

→ connect

6) Repeat step 5 for the PC1 & PC2

Then you can see the below connection in the network.

Diagrammatic Representation:



Output:-

Thus the packet would be transmitted via wireless router.

free	Last Status	Source	Destination	Type	Code	Time	Period	Mem
	Successful	PC0	PC2	TCP	D	0.000	N	0
	Successful	PC1	PC0	ICMP	D	0.566	N	1

Output:-

Thus

X

Simulation Panel		
Event List		
VIS	Time (sec)	Last Device
	0.000	--
	0.001	PC0
	0.003	--
	0.004	wireless router0
	0.004	wireless router0
	0.004	wireless router0
	0.005	--
	0.006	PC2
	0.008	--

Student Observation:-

a) What is SSID of wireless Router?

Ans: Service set identifier is the name assigned to a wireless network. The SSID is broadcast by routers.

b) What is security key in wireless router?

Ans: A security key is a password or code used to protect a wireless network, ensuring only authorised users can connect. Common types are WEP, WPA & WPA2.

Result:-

Thus, wireless has been configured successfully using Cisco packet tracer.