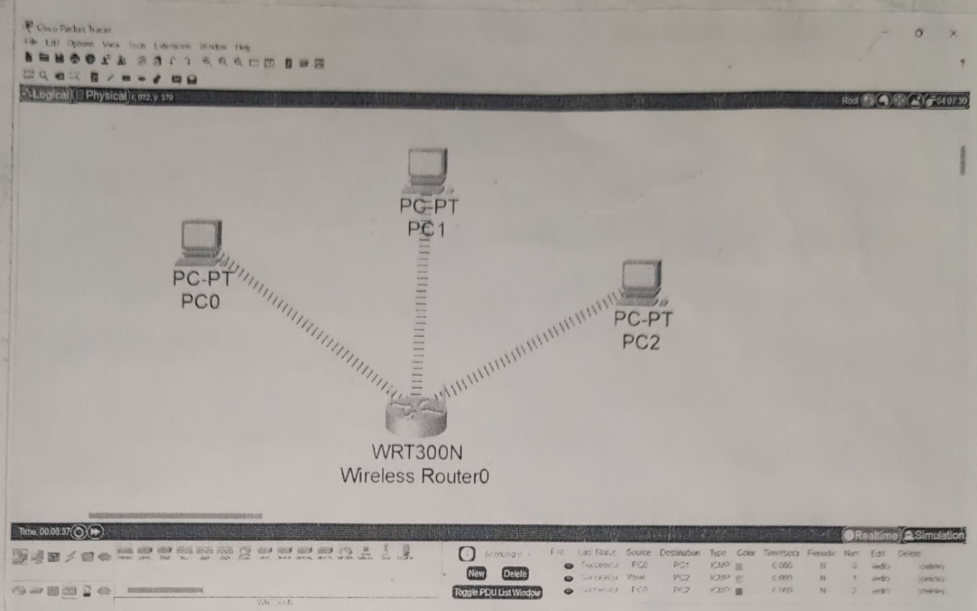


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Practical - 86

Aim:-

b) Configuration of wireless LAN using CISCO Packet Tracer.



Perform following configuration:-

- Configure static IP on PC and wireless router.
- Set SSID to MotherNetwork.
- Set IP addresses of router to 192.168.0.1, PC0 to 192.168.0.2, PC1 to 192.168.0.3 and PC2 to 192.168.0.4.
- Secure your network by configuring WAP key to Router.
- Connect PC by using WAP key.

To keep complete these follow these step by step instruction:-

Instructions:-

Step 1:- click on wireless router.

- select administration tab from top menu, set username and password to admin. and click on save settings.

- Now click on wireless tab and set default SSID to anotherNetwork.

- Now select wireless security and change security to WEP.

- set key 1 to 0123456789.

- Again go in the end of page and click on save settings.

- Now we have completed all given task on wireless router. Now configure the static IP on all these PC's.

- Double click on PC select Desktop tab click on IP configuration select static IP and set IP as given.

PC	IP	Subnet Mask	Default Gateway
PC0	192.168.0.2	255-255-255-0	192.168.0.1
PC1	192.168.0.3	255-255-255-0	192.168.0.1
PC2	192.168.0.04	255-255-255-0	192.168.0.1

- Now its time to connect PC's from wireless router. To do so click PC select desktop click on PC wireless.

- click on connect tab and click Refresh button.

- It will ask for WAP key insert 0123456789 and click connect.

- It will connect wireless network.

- Repeat same process on PC1 and PC2.

Student Observation:-

a) what is SSID of a wireless router?

The SSID (Service set identifier) is the name that identifies a wireless network. When you search for available WiFi networks on your device the list of network names displayed represents SSIDs of nearby wireless routers.

b) ~~configure~~ what is security key in a wireless network?

A security key is the password used to protect a wireless network, ensuring only authorised devices can connect. Common types include WPA2 and WPA3.

c) configure a simple wireless LAN in your lab using lab using a real access point and write down configuration in your notebook.

1] Access the Router's interface.

- connect your laptop or PC via ethernet
- open a web browser and enter IP address (192.168.1.1).

2] Configure the SSID.

- set SSID (eg: "labWiFi").

3] choose a wireless channel.

- set Auto or manual.

4] ~~set~~ security as open.

- wireless open network (WPA2-PSK).
- create a password ("12345678").

7] Assign DHCP server that automatically connect to wireless network.

8] save the settings and reboot the router on access point if necessary.

Configuration:-

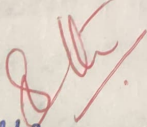
SSID: Lab_Wifi

Channel: Auto

Security: WPA2-PSK

Security key: Lab12345.

DHCP Range: 192.168.1.10-192.168.1.100.


Result:-

Thus wireless LAN configuration is configured and executed.