

Ex NO:10b Design and configure an infrastructure DATE: 19.09.25 using wireless router, DHCP server and internet cloud.

Part 1: Build a simple network in the logical topology

Step 1: Launch Packet tracer

Step 2: Build the topology

- a) Add network devices to the workspace.
 - b) change display names of the network devices
 - c) Add the physical cabling between devices on the workspace.

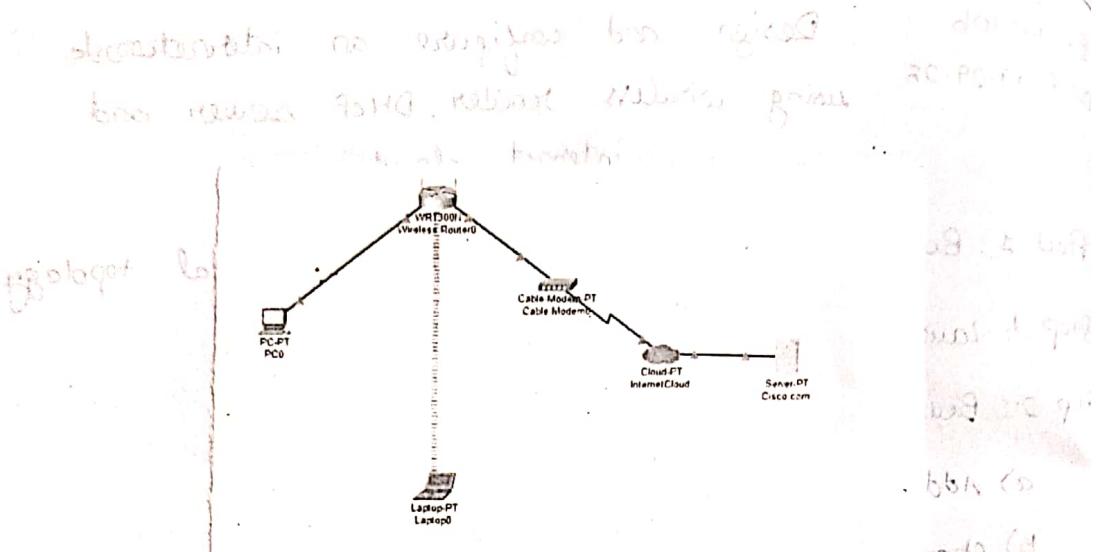
Part 2: Configure the wireless router

- a) wireless device setup and configuration
 - b) Configure the laptop
 - c) Configure the PC
 - d) Configure the internet cloud.
 - e) Configure the cisco.com server

Part 3: Refresh the IPv4 settings on the PC.

- a) verify that the PC is receiving IPv4 configuration information from DHCP.
 - b) Test connectivity to the cisco.com server from the PC.

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Student observation:

1. Write down the key features of configuring wireless router and DHCP server.

A) Wireless router:

- Set SSID
- Configure security (WPA2/WPA3)
- Update firmware.

DHCP server:

- Define IP address pool
- Set lease time for IPs

B) What is the significance of DHCP server for internetworking?

A) Automatically assigns IP addresses.

Prevents IP conflicts.

Efficient use of IP addresses.

Result:

thus the experiment has been executed successfully.

9/10/23