

Ex NO: 106

DATE: 19-09-25

Design and configure an internetwork 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

- Add network devices to the workspace.
- change display names of the network devices
- Add the physical cabling between devices in the workspace.

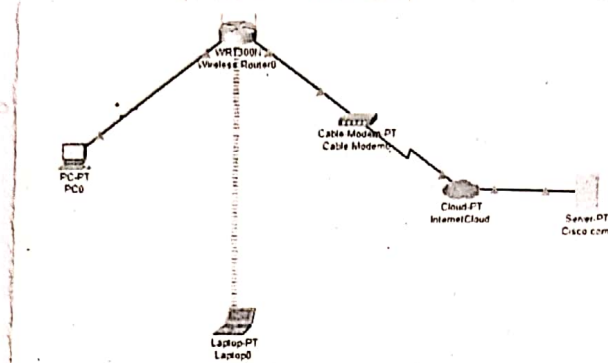
Part 2: Configure the network devices

- wireless device setup and configuration
- Configure the laptop
- Configure the PC
- Configure the internet cloud.
- Configure the cisco.com server

Part 3: Refresh the IPv4 settings on the PC.

- verify that the PC is receiving IPv4 configuration information from DHCP.
- 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.

1) Wireless router:

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

DHCP server:

- Define IP address pool
- Set lease time for IPs

2. What is the significance of DHCP server in internetworking?

- A) Automatically assigns IP addresses.
- Prevents IP conflicts.
- Efficient use of IP addresses.

Result:

Thus the experiment has been executed successfully.

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