

Exp. No: 10

Date: ?

Aim:

a) Internetworking with routers in CISCO PACKET TRACER Simulator

b) Design & configure an internetwork using wireless routers DHCP server & internet cloud.

Student Observation:

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

- Access the Router's Configuration Page
- Enter admin username & Password
- Set Basic wireless settings
- Enable DHCP server
- Configure DNS servers
- MAC address filtering allow devices by MAC address
- Apply changes & restart routers.

2) Significance of DHCP server in internetworking:

- \* Automated IP Address allocation.
- \* No duplicate IP addresses
- \* Supports large scale networks.
- \* Provides a centralized point for managing IP addresses.

3) Design & configure internetworking using switch router, cables. Also show IP address config. of each device.

1) To design & configure an internetwork using routers and switches in Cisco Packet Tracer Simulator.

2) To observe key features of configuring routers and switches.

- Add a new router to the network.
- Configure the router's configuration page.
- Enter admin username & password.
- Set basic network settings.
- Enable DHCP server.
- Configure DNS server.
- Add address filtering access list.
- Add a new router to the network.

3) To observe the significance of DHCP server in internetworking.

- \* Automates IP address allocation.
- \* No duplicate IP addresses.
- \* Supports large scale networks.
- \* Provides a centralized base for managing IP addresses.

4) To observe the configuration of routers and switches in Cisco Packet Tracer Simulator.

Output:

Thus the networking is done in Cisco Packet Tracer and output is verified.

*[Signature]*