Ex.no:10 INTERNETWORK USING DH
3/10/24

AIM:-

Design and configure an interne
using DHCP server.

STUDENT OBSERVATION:-

1) Write down the key feat-ures configuring router and DHCP server

Router configuration on:

-> Enabling DHCP server to assign IP address to devices.

-> providing connection to th DHCP server configuration.

-> Automatic IP address for device joining the network

-> Setting up pool ranges IP address

-> Configuring default gate

2). What is the significance of D internet working?

-> A Dynamic host config

5). Testing rout

-> Test-
ping fro

=> co
main rout

6) Delet

b) 1) D
2) A
P

3)
4)
5).

Ex.no : 11
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TCP/UDP SOCKETS
Static routing configuration.

AIM:-

a). Simulate static routing configuration using CISCO Packet Tracer.

b). Simulate RIP using CISCO Packet Tracer.

a) 1). Adding static Router : each router knows only the networks directly connected to it add static route to reach a network not directly connected.

eg: router0, networks 10.0.0.0/8, 20.0.0.0/8, 40.0.0.0/8 are directly connected but 30.0.0.0 & 50.0.0.0/8.

2) Creating main, Backup Routes Administrative Distance decides preference of routes. The lower the AD, the higher the preference

3). Router configuration.

configure static router on each router for networks not directly connected.

4). Verifying Router:-

Verify router by using commands.

show ip route static.

5). Testing route fail over:

-> Test connectivity using tracert or ping from a device on a connected network.

=> If connected "break" the link on the main route.

6) Deleting a static route.

show ip route static

b) 1) Initial IP configuration for devices.

2) Assign IP addresses to devices - from PC's and routers.

3) Enable, configure Interface on routers.

4) Configure RIP on routers.

5). Verify and test redundancy

- use ping command on DCI.

- Use tracert to see RIP redirectory traffic through an alternate route.