

Lab 5

Configure DHCP within a LAN

DHCP → port no:- 67 Client uses port no:- 68

D Discover
O Offer (offers IP for client & mask for client)
R Request
A Acknowledge

Port no:- Unique no. given to all protocols irrespective of layer.

DHCP uses UDP as transport layer protocol.

router 10.0.0.1 255.0.0.0

• 4 PCs.

• Router PT

• Server-PT

• Cable → Copper Straight-Through (2960)

• Switch → 2950-24

* Configure 1 interface of Router

* ~~Configure~~ Don't configure PCs.

* Configure Server

→ Config → Default gateway :- 10.0.0.2

→ ~~For~~ Config → Fast Ethernet 0

• Static → IPv4 address 10.0.0.2

→ Services → DHCP → Services ON →

Default gateway :- 10.0.0.1

DNS Server :- 10.0.0.2

TFTP Server :- 10.0.0.2

* Click on PCO ^{→ Desktop} → IP configuration → DHCP (Request success)
Similar for other 4 PCs.