

02/11/2020  
Monday.

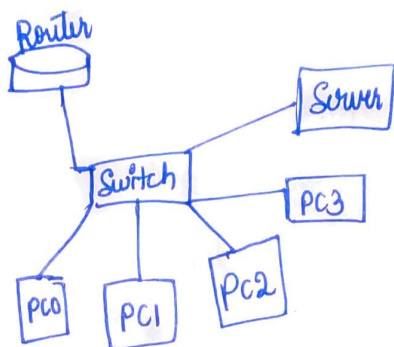
Lab-5

Writeup

Arjun A.S  
18MIBLS019  
CSE  
5A

## Configuring DHCP within a LAN

A topology was created using a Router, a switch, a Server and four PCs connected as shown below



- \* The router was configured using CLI.
- \* The server was configured specifying the default gateway  
DNS server, TFTP server

Default gateway: 10.0.0.1

DNS server: 10.0.0.2

TFTP server: 10.0.0.2

T

- \* The PCs request the server for ip
- \* Upon request, an ip address was successfully assigned to the PC.

### Outcomes:

- \* Creating a topology with router, switch, server and PCs.
- \* Configuring the server [turning the DHCP services]
- \* 4 steps in DHCP
  - D - Discover the server
  - O - offer the IP address
  - R - Request ip
  - A - acknowledgement
- \* Individual PC request the server for an ip address.
- \* An ip address is assigned to the PC from a pool of IP addresses by DHCP server.

Arjun A.S