

## Assignment 4

Title: DHCP server and a program to install software on remote machine

Broblem Statement: Install and configure DHCP server and write a program to install the software on a sumote machine.

Software / Hardware Requirements:

Fedora 20 with Pentium Processor

more than 1 GBRAM 120 GB HDD. Monitor Keyboard,

Morue, Modelio, Eclipse.

Theory:

DHCP stands for Dynamic Host Configuration

Brotorol is a standardized network protorol used on Internet protorols networks for dynamically distributing network configuration parameters such as IP address for interfaces and services

DHCP server can be any server that is used to distribute IP address automatically to all servers a system or network administrator

The introduction of DHCP alleviated the problems associated with manual assigning TCP/IP client address.

Notwork administrator have quickly 2020 possessed the importance of DHCP.

Advantages of DHCP:

DHCP has serveral major advantages over imanual configurations?

Each computer gets its configuration from a pool of available numbers automatically for a specific time period.

When a computer has finished with the address it is released for another computer to use.

Major network resources changes requires only the DHCP server be updated with the new information.

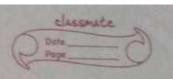
Installing DHCP in Uburtu O.S:

Open terminal and type the following command-

- D sudo apt-get install isc-dhop-sower.
- 2) sudo gedit/etc/dhep/dhep.comf then make changes in file default-lease-time 600.

alfault - lease - time 600; max - lease - time 7200; option subnet-mask 255.255.255.0 option broadcast - address 10.1.32.255; subnet 192.168.1.0 - mdmask 255.255.255.0 range 101.32.10 10.1.32.20

- 3) save file and close
- 4) Again on terminal give following commands-14:45



sudo service isc-dhep-server restart

5) On another PC in internet properties change to Obtain IP address automatically and then check the IP address

The most common settings provided by a DHEP server to DHEP clients include -

- 1) 1P address and namask
- 2) IP address of the default-gatiway to use
- 3) IP address of the DHS servers to use
- 4) However, a other server can also apply configuration properties such as-
  - 1) Host Name
  - 3 Domain Name
  - 3) Time server
  - 4) Brint server

THEP server can provide configuration settings using the following code-

- i) Manual Allocation Address (MAC address)
- 2) Dynamic allocation 3) Automatic allocation

In dynamic allocation, the DHCP serves will assign an IP address from a pool of addresses (sometimes also a range of scope) for a period of time or leave that is configured on the server on until the client informs the server that it 2020/109/t/4-14:46 need the address anymore.

