Assignment - 04 Title Study of DHCP Froblem Statement: Justailing and configure OHCP Seenes and write a program to autal software or semote machine Objective Student should be able to understand Dynamic Host Configuration Rotocol. Software Requiremente windows 10 (64 bit), tutul is placessor, cisco Packet Tracer. Theosy! DHCP is a went ferver protocol that automatically provides host with the host IP address and other related configuration information such as Subust mask and dyangt gateway. every durice on TCP/IP Based I network must travel a unique unicast IP address to access network resources with OHCP, the allocation is carried out easily and automatically for hosts added as removed from the network. DHCP server maintailers a pool and clases ep address to any D once- enable ctient when it start up to the network Because the EP are addresses are automatic dynamic when the addresses are not used

then seturned to pool for reaccocion. A DHEP maked dient upon accepting a lease after , leterner. a A variet of address for the subject to which it is connecting · Additional parameters that DHOP server is assigned to assign elient for eg. dyaint gateway, one Jeiners. DHCP lease overnew process (1) The DMCP dient requests an IP address by broadcasting PHCP discover message to the local subjul (2) The object is offered an address when a DHCP serves responds with at OHCP offer missage containing an It addresses and configuration outcomation for have to the elent of the ones server responds to The about request. The elient sends ofter discover message at intervals of 0,4,8, 16 and 32 respectively -plus a random interval between - 1 and 1 seconds Ist there is no response from once server after Done min the client class proceed in one of two If client is using Automatic private IP addressing Dome client self U configuration on IP address for its interface 0 If elient does not support alternate configuration buch as automatic it addressing the drief natura initialization fails

(3) The client indicate acceptance of the offer by relecting the offered address and bloadcastling a DHCP message regulat in response. the client is assigned the address & DHCP server broadcasting a once acknowledge missage in response finalizing the wase In the case of OHCP server failing to respond to once obscores, I the hosts undergo a new of sending OHEP obiscones sequests enery & minutes in the as mentioned above. Retting up DMCP Serves Steps: your install dhop ii) vileta/ dhap/ dhap confg Edit configuration file as given below. aubut 192.168.8.0 netmask 255.255.255.0 Dange 192-168-8-1 192-168-8-20 option domain - name celvers nel internal example, org option domain- name " uternal example org option contens 192.168 8.254 option broadcast address 192.168.8.255; défant liase time 600; max-lease-time 7200; Teacher's Sign.: ____

chkconfig dhepa on : Run this to cheek dhop "service drop restart": Run this to start drop service Conclusion. We warnt about once and usage & working of DHCP.







