Experiment-04 05-12-2002 Aim: To configuere DHCP within a LAN Topology: Routeyo 20.0.0.2 Coutey 30.00.2 Routey 2 10.0.0.2 20.0.0.1 30.0.0.1 40.0.0.2 10.0.0.1 Procedevee: · Select Generic PC's and Routers and Connect them veing appropriate Commertion. · Configure the end points of PC's · Configure the roution end points. · While configuring routers sere'al connection After 18 addrew has been specified. enter the command - encapsulation PPP. · bet the clock rate by giving the commond the end point where packets go out clock reate is output: [Before Dynamic routing] not oregined Routurt show ip moute Gateway of last sevent is mot set

C 10.0.0.0/8 is directly connected, Fact Ethernolly connected, Sucial 210

20.0.0,0/8 is diently commeted, Sicial2/0 20.0.0.2/32 es dieceitles connected, Sie al 2/0 Pc> Ping 40.0.0.1 Pinging 40.0.0.1 with 32 legtes of doctor Reply fecom 10.0.0.2: Destination conseachable. Riply ferom 10.0.0.2" Deet nection unecouhalile. Reply secons 10.00.2: Declination heet uniceachalde. Ping statisties for 40.0.0.1; Parkets: sent 24 Received=0, Lart=4 Pingeng is not Roceufeel. Dynamic Routing: · Select a Router - CLI tab - enter into config terminal mode. · Enter the command - roether RIP[Routing: · Configuere the rocater ley entering the command - network 30,0.0.0. · The ip address provided must Output: [After depromée vouling] Receter#: show ip route Gateway of Last surort is not set C10.0.0.0/8 is directly commerted

c 20.0.0.2/32 is directly cornected decials/8 R 30.0.0.018 [120/] Nia 20.0.0.2, 0.0.00:09 R 40.0.0.018 [120/2] Mia 20.0.0.2,0.0.00.00. Parpling 40.0.0.1 with 32 leyers of data: Pinging 40.0.0.1 Reply becom 40.0.0.1: legtes=32 TTL=125 Reply from 40.0.0.1: leytis=32 time!=19ms TTL= 125 Reply perom 40.0.0.1: legtes=32 time = 2mg TTL 2-123. Ping statisties for 40.0.0.1: backets: Bent: 4, Rem'ved: 3, Loct:1 Pinging is recurful after demannée mouting. Router Information protocol: - RIP is a demannec moeeting protocol that finds the optimum path letteren the soulls' and dutination networks by wing hop count as a routing metalic. - RIP was the shortest number of hops to determine the best path to be a - RIP is commonly used in internal melwork -It allower a router to exchange its meeting information automatically with other routers and allows it its demanically tochand adapt tochand adapt tochand