Exp-3: a configure défault monte, statie monte to the nouter. Aim: To demonstrate static routing and default routing using 3 nouters. Topolegy: 20.0.0.2 30.0.0.1 Sello Ose 310 30.0.0.2 Defoult Routing routing 20.0.0.1 Router - PT Factor Router - PT Router Fa 010 & Router-PT Static Routing Router-2 · Fao 40.0.0.10 10.0.0.10 gateway 40.0.0.1 Del Gateway 10.0.0.1 1. PCD is connected to router o's interface Fa 0/0 osing a cross-over cable IF address: 10.0.0.10 De gateway: 10.0.0.1 2. PCI is connected to grouter 2's interface Fa 0/0 using a cross-over cable IP address: 40.0.0.10 Def gateway: 40.0.0.1 3. Router o * Interface Fa 0/0 connected to PCO * Interface Se 210 connected to router 1 * IP address of Se 210: 20.0.0.1

Router (config-4) \$ No shut

Router (config-if) # enit 5. Router 2 · Interface Fado is connected to PCI * Interface Se 3/0 is connected to nouter! * IP address of Facto: 40.0.0. IP address of Se 3/0: 30.0.0.2 Config Router 2 1114 to Router b. configuring the PCs FOI PCO: · click on PCO and set the IP address to 10.0.0.10, subnet mask to 255.0.0.0 and default gateway to 10.0.0.1 FM PC1: * click on PCI and set the IP address to 40.0.000.10, subnet mask to 255.0.0.0 and default gateway to 40.0.0.1 → Default Routing of Router O Router > enable Router # canfig terminal Router (config) # ip noute 101010 0.0.0.0 0.0.0.0 Router (config) # exit Router # show ip noute Crateray of last resort is 20.0.0.2 to retwork c 10.0.0.0/8 is directly connected, Fast Ethernet old C 20.0.0.018 is directly connected, Serial 210 5 0.0.0.0 [110] wa 20.0.0.2

Date Page
- static Routing of Router !
Router (config) # ip noute 40.0.0.0 255.0.0.0 30.0.0.1 Router (config) # ip noute 40.0.0.0 255.0.0.0 30.0.0.1
Router # show ip noute
5 10.0.0.0/8 [1/0] via 20.0.0.1 c 20.0.0.0/8 is directly connected, Serial 2/0 c 30.0.0.0/8 is directly connected, Serial 3/0 s 40.0.0.0/8 [1/0] via 30.0.0.2
-> Defaut Routing of Router 2
Router (config) # ip noute 0.0.0.0 0.0.0.0 30.0.0.)
Router # show if groute
C 30.0.0.018 is directly connected, Sexial 310 C 40.0.0.018 is directly connected, FastEth- except 010 S* 0.0.0.010 [110] via 30.0.0.1.
Brocedure:
1. Open Cisco Packet Tracer and drag the following components onto workspace: Router: Place 3 routers in the middle PC: Place two PCs om the below youter 0 4 grouter 2.
2. Use cron over cables to connect PCO &

3. connect nouter0, nouter1, nouter2 using serial DCE 4 Configure the PC's & nouters and add labels for the IP addresses & default gotenay for PC & nouters. 5. Configure monter 0 & nonter 2 por default nonting and nonter 1 for static nonting 6. Test the connectivity by opening command to prompt on PCO and use ping command to sheck connectivity. Ping PCI. The ping results are as follows: Pc> ping 40.0.0.10 Pinging 40.0.0.10 with 32 bytes of data: Request timed out Reply from 40.0.0.10: bytes=32 time=6ms TT1=125 Reply from 40.0.0.10: bytes=32 time=6ms 772=125 Reply from 40.0.0.10: bytes=32 time=6ms TTL=125 Ping statistics per 40.0.0.10: Packets: sent=4, Received=3, Lost=1 (251-loss) Approx round trip times in milli-seconds: Minimum = 6ms, Maximum = 8ms, Average = 6ms Observation: If the configuration & cabling are correct, blo two PCs