23-Oct -2024 Lab 3: Configure default noute, statio noute to the Routes Static growting and Default growting demonstrated using 3 monters IP oder 20 1 20 100 1 20.010.1 Aim: Demonsterate static and Default grouting using Ain: Demonstrate

3 prouters

Topology:

10.0.0.1

Fallo, 10.0.0.1

Fallo, 10.0.0.1 1 gotpol at between s/o of IP: 40. 0.0.10 1.0.0.01 0/0 To week W: 40.0.0.1 at betieves also consider to IP: 10.0, 8 had 6W: 10.0.0,1 IP obligate he 210 30.000.2 Laptopo: Connected to grouter o's interfece Fo 0/0 using a cross over cable

TP: 10.0.0.16 GW: 10. Oldin et as sections Laptop 2: Connected to nonter 2's interface Fa 0/0 using a coross over cable 2019 IP: 40.0.000 est ries of sides ormandes est GW: 40.0.0, brofeeter 0/0 of Loutest e 10.09 Configure Routen o by clibing on the control and sexter CCE Assign I raddenses to the souter interforms more bone

restrant through - I reliant Router 7 enable Pouter # configure terminal strong 41 # (all so) return Interface Falls connected to Laptop o Paddress Fa 0/0 w 1000 to 199 bis Router # (corby) # viterface serial 2/0 Router (config-if) # ip address 20.0.0.2 255.0.010 Interface se to connected to router I Router (config-if) # no shuts shore gitt (ofres) atura IP address le 2/0: 20.0.0.1 Personatrate statue and Default Router (config) # interface serial 3/0 Routen 1: Router (config-if) # ip address 30 000 to 2550.00 Interface se 1/0 connected to growter o Router Config-if) # no shut there 91 # (offred reliable IP address se 2/0 20.0,0,2 Interface se 3/0 connected to growter 2 · Configure Router I is the following matrier section IP address se 3/0 30.0.0.2 enter CLI Assign IP addresses to the grouter interface Router 2 Router 7 enablement results bro storoghes Je Router # configure terminal Interface Fo 0/0 cornected to laytop ! IP address Fa 0/0 10.0.0.1 Router (config) # interface factethornest of a ? Interface se 2/0 connected to Router 1 Router (config-if) # ip address 10.0.0.1 255.0.0.0 IP address se 2/0 30.0,0.2 Router (config-it) # no shuter teal to wanter Procedure South a oration of the company Router (config) # interface serial 2/0 0000 Router (config-if) # ip address 20.0.0.1 255 0.0.0 open ciseo packet trace and drag the price of Router (config-if) # no shut, o. O. O. A pag < 39 bollowing composents · Configure the two PC's Router: Place 3 nouters in the middle of wa PC: Place 2PC's on gither side of the souter PCO: and set IP oddress to 10.0.0.10, and chile on PCO and set IP oddress to Use crossorer ables to join the following elike on PCO and ser June 255-0,0,0 and default gaterray PCO -> Router 2 Fo 0/0 interface 102 - Router 2 Fa 0/0 interface c lich on PCI and set up IP address to 40.00.10 . Configure Router 0 by childing on the nouter and and subnet mark to 255.0.0.0 and default gotenay Arriga Traddoesses to the grouter interfaces:

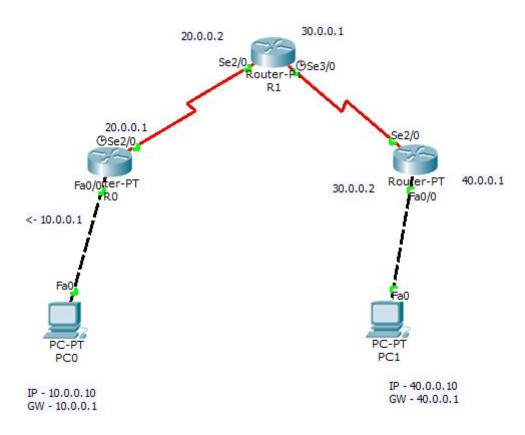
Router 1 - Default Routing: Ilone section Router (config) # ip groute 0.0.0.0 0.0.0 po.0.0 pertur # (certia) ## witerfore service 2/0 Router 2 Default Routing: sucho que to the provide Router (config) # ip groute 0+0.0.0, 0+0.0-0 30.0.0.1 of E loves interface solid 3/0 Router 1 - estatio Routing: works gi to (255.0.0.0 20 0.0.)

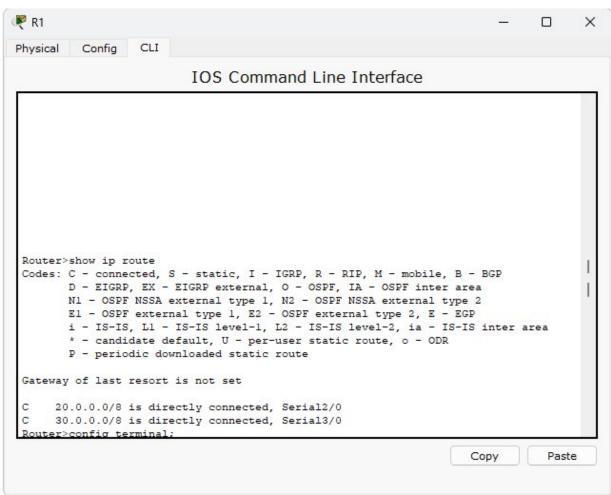
Router donfig) # ip growthe 10:0.0.0 255.0.0.0 20 0.0. Router 2 - static Routing

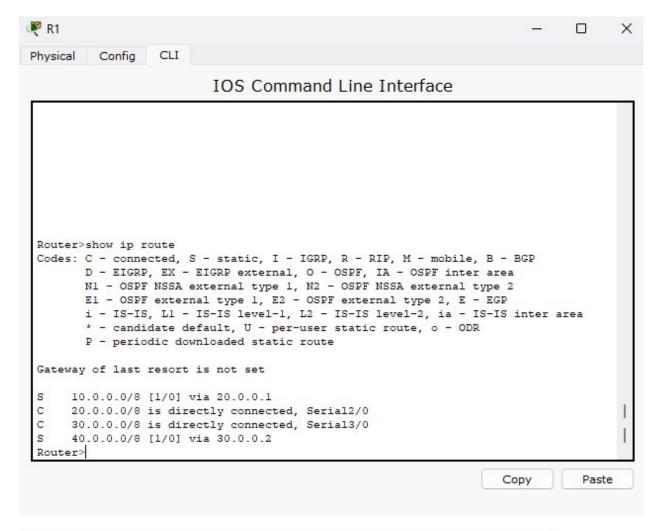
Router 2 Confres) # ip groute 40.000 255.0.00 30.00.0.2 Observation: atwore est at seserbbo 9 I represent · If configuration and cabling are correct you will receive If configuration and carring in the two PC's retras Routers show ip shorteselve que # (de pilos) to the return to propose of last exposit in propose of the return to propose of the return to the police of th o. 0.0.0 of hires infration to (piles) extrass one as bollows? The ping one was bollows? PC > pary 40. 0.0.1 tula or # (le pipes) return Periging 40 0.0.10 with 32 bytes of dattime = 6 ms TTL = 121 Reply from 40.00.10 i byter = 32 time 6 ms TTL 125 40.0_0.10 bytes = 32 Reply bron tim: 10 mg TTL=125 40.0.0.10 byte=32 Reply form tun : 9 mg 77 [125 40.0.0.10 bytes=32 Reply Gran

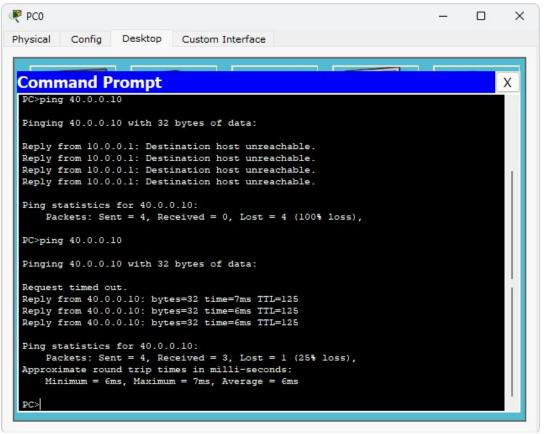
Ping statistics from 40,0.0.10 Packets: sent=4, received=4, Lost=0 (0% loss) Approximate mound trip time is milliseconds: Minimus = 6 ms, Moscimus = 10 ms, Average = 7 ms Router > show ip route [Router 1] [1/0] via 20.0.0,1 5 10.0.0.0/8 is directly connected, serial 2/0 c 20.0.0.0 18 is directly connected, serial 3/6 0 30.0.0.018 [10] via 30. 0,0,2 5 40.0.6.0 | 8

3) Configure default route, static route to the Router









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PC>ping 40.0.0.10

Pinging 40.0.0.10 with 32 bytes of data:

Reply from 40.0.0.10: bytes=32 time=8ms TTL=125
Reply from 40.0.0.10: bytes=32 time=8ms TTL=125
Reply from 40.0.0.10: bytes=32 time=9ms TTL=125
Reply from 40.0.0.10: bytes=32 time=7ms TTL=125

Ping statistics for 40.0.0.10:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 7ms, Maximum = 9ms, Average = 8ms
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