Name of the experiment:

Aim: To configure IP address to routers and depault

104 P. 7-19

Topology:

(10.0.0.10) 10.0.0.2 30.0.0.1 30.0.0.2 (vouten3) 40.0.0.10

10.0:0.1

Procedure:

- · Configure 2 PCs IP address and gateway
- · congigure Routers IP addresses through giving commands in CLI
- · Default routing for router 1 ->

 router (unifig)# ip route 0.0.0.0 0.0.0.0 20.0.0.2

 router 3 ->

 router (unifig)# ip route 0.0.0.0 0.0.0.0 20.0.0.2
 - Static routing is done for router 2.
- · simple PDA is sent from PC+ to PCO and

ping menage from PCD TO Invalvedus it to

Result:

40.0.0.1 pc> Ping

40.0.0.1 with 32 bytes of dates: pinging time = 10 ms TTL=125 40.0.0.1: bytes: 32 time = 10 ms TT6=125 Reply from 40.0.0.1: byter 32 time: 8 mg TTL= 125 Reply from 40.0.0.1: bytes, 32 time = 15 mg TTL = 125 Reply from 40.0.0.1. bytes: 32 Reply from

Ping statics for 40.0.0.1:

Packets: sent=4, received=4, lost=0/07. loss), Approximate round trip times in milli-seconds; Minimum: 8 ms, Maximum: 15 ms, Average: 10 ms

Observation:

- · A dejoult route is the route which takes effect when no ther route is available for an IP address distination
- · if a packet is received, the device first checks the IP destination address, if the IP destination address is not local the device checks it rociting
- · if the remote destination submit is not listed then the packet is forwarded to the next hop towards the destination using the default router
 - · The process repeats until the packet is delivered. ic There in more is grature its

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