Experiment - 3

Name of the experiment:

Aim: To configure IP address to routers and depault routing

Topology:

10.0.0.10

10.0.0.10

10.0.0.10

10.0.0.10

10.0.0.10

## Procedure

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

router 3 -> ip route 0.0.0.0 0.0.0.0 20.0.0.2

router (unjg) # ip : rout 0.0.0.0 0.0.0.0 30.0.0.1

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Static routing is done for routes 2.

· simple PDA is sent from PC1 to PCO and

## Result:

40.0.0.1 pc> ping

pinging 40.0.0.1 with 32 bytes of dates:

TTL=125 time = 10 ms 40.0.0.1: bytes = 32 176=125 Reply from time = 10 ms

Extens tunger

40.0.0.1: byten= 32 TTL=128 Reply from time: 8 mg

40.0.0.1: bytes, 32 Reply from TTL = 125 time = 15 mg

40.0.0.1: bytes: 32 Reply from

## Ping statics for 40.0.0.1:

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

## Observation:

- · A default route is the route which takes expect when no ther route is available for an IP address destination
- · 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 routing
- · if the remote dustination submit is not listed then the packet is forwarded to the next hop towards the destination using the depault route
  - . The process repeats until the packet is delivered.

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