Aim - To demonstrate ttl/ life of a packet

Topology.

20.0.0.10

Routen 2

Routen 3

Route

Procedure

as shown in the topology

22 use serial DTE between routers and copper

cross over between router and PC.

32 configure the IP address and gateway of PC

and configure all the routers

for router o

>enable

Routen±1 config +

Router (config - if) # ip address 10.0.0.10 255.0.0.0

Router (config-if) # no shut

Router (config-if) # exit

Router (config) # ip router 30.0.0.0 255.0.0.0 20.00.20 Router (config) # ip route 40.0.0.0 255.0.0.0 20% Router (config) to exit

fast souter 1

> enable

Joulen # config t

router (config) # interface serial 2/0

router (Longig-ig)# ip address 20.0.0.20 255.0.0.0

Touter config-if) # no shut

router (config) # exit

robuter (config)# interface serial 3/0

router (config-ig)# ip address 30.0:0.10 255.0.0.0 routes (config-it) # no shut

router (config-is) # exity galegate and an accordance router (wongig) # ip routes 10.0.0.0 255.0.0.0 20.0.0.10

roules (congig) #1 ip route 40.0.0.0. 255.0.0.0 30.0.0.2 router (workig) # pait out to the months of the

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the fire and part of Similar commands for router 2.

- 44 Select simulation mode, select simple PDU and select source of destination PCs.
- acknowledgement from PC to router and router to PC.
- 6} Wick on PDU during every transper to see the inbound and outbounk PDU details observe the difference in TTL.

Result

at PCO

Outbound PAU details: TTL=255

Bit router 0

Inbound PDU details: TTL = 255 Outbound PDU details: TTL = 254

at router1

Inbound PDU details: TTL = 254

Outbound PAU details: TTL= 253

at routes 2

Inbound PDU details: TTL= 253 Outbound PDU details: TTL= 252

Observation

- . The TTL is reduced by 1 in every routes
- hops between source and destination
- another hope of the means it can't a do ...

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