27/7/20 LAB-6 08 Pf Roula PT Router Roder 61 Area 3 (Area) Procedure : -> Configure the PC's with IP address & gaileway according to the Lopology -> Configure each of the routers according to the ip address given in Lopology.

-> Encopasulation PPP & clockvale need to be set as done in RIP protocol exercised Step 3. Now Enable ip routing by configuring os pf rading protocol in all roulers In Rouler R1 RI (config) # souler ospf' RI (confg. router)# router-id 1.1.1.1 RI (config - howler) # network 10.0.6.60.255.255 RI (config. router) # nclavore 20.0.0.0 0.255.255.255 RI (confg. rowler) # cool

In Router Rz. R2 (confg) # nouter ospf 1 Re (confgerouter) # nouter-id 22.2.2 R2 (config - router) # nelwork 200.0.0. 0.225.255 25 R2 (confog - Router) # network 30.00.0.0.253.255295 R2 (config. Goular) # esal In Router R3 Ro (config) # rouler ospf 1 Rs (config-rader) # rader id 5.3.3.3 Rs (confg. router) 71 network 30.0.0.0 0.255.255.255 04 R3 (conf. g. rouler) # network 40.0.0.0 0.255.255 255 as Rs (confg. rowler) # earl Step 4: Loopback in Deval interface. In router RI RI (config.if) # interface loop back O RI (confg.if) # iP address 172.16.1.252 256.255.01 RI (config-if) # no shall In souter & in sexal interface Re (confg. if) # interface 100 place 0 R2 (config - if) IF ip address 172. 16.1.263 R2 (confg-if) # no shall In souter 3 Rs (confg.if) # interface loopbook 0 255 2551 Ro (config-il) # ip address 172.16.1.254 83 (config-id) II no shed.

Steps- Virtual link. In souter RI RI (config) # router Ospf 1

RI (config router) # area 1 virtual link 2222

n router &z In router R R2 (confg) # rouler os Af 1 Virtual-link 1.1.1.1 R2 (confg-nouter) # area 1 R2 (Carf g rouler) Head -> show ip router [110 /129] vi a 30.0.0.1 Sevial 3/0 0 ± A 10.0.0.018 O IA 80.0.0.0/8 [110/128] via 30.0.0.1 seval 3/0 30.0.0.018 is voviably subnetted, & sabnets, Emarks c 30.0.0. ol8 is directly connected. Seriol 5/0 c 30.0.0.1/32 is directly connected. Serial 3/0 C \$10.0.0.018 is directly connected fastethernet old C 172,16.0.0/16 is directly connected loopbook Pang output finging 40.0.0.10 with 32 bytes of dolo

Request timed out

Refly from 40.0.0.10 bytes=32 dime: 2m.s 771-125

Refly from 40.0.0.10 bytes=32 dime=9ms TTL-RS

Refly from 40.0.0.10 bytes=82 dime=10ms TTL-1RS

Refly from 40.0.0.10 bytes=82 fine=10ms TTL-1RS

binging stodistics for 40.0.0.101

bordel: sed=4, deceived 3, los=1 Apprice round dip in m8'

Min= Rns, mox: 10ms, Average: 7ms.

TOPOLOGY:



Command Prompt

```
Packet Tracer PC Command Line 1.0
PC ping 40.0.0.10
Pinging 40.0.0.10 with 32 bytes of data:
Reply from 10.0.0.1: Destination host unreachable.
Ping statistics for 40.0.0.10:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
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=4ms TTL=125
Reply from 40.0.0.10: bytes=32 time=6ms TTL=125
Reply from 40.0.0.10: bytes=32 time=12ms TTL=125
Ping statistics for 40.0.0.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 4ms, Maximum = 12ms, Average = 7ms
PC>
```