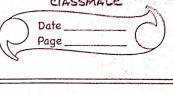


	Date Page
\	In grouter 2, R2
	Raconfig) It nouter ospf 1 Racconfig - rouser) It mouter-id 2.2.2.2
1	R2 (Config - roysen) # Souten-Id 2.2.2.2
\	1 R2- ((Only 19-Voy 18) 7 + network 20.000 (43) 23) 235 gra
71 1	R2 (config - Youlen) # network 30.0.0.0 0:255-255:25 area
	R2 (config - neuter) # exit
18	Router 3, R3
	R3 (config) # growter ospf 1
Ì	R3 (conjig-youten) # nowley-id 3.3.3.3
	R3 ((ohtig - youter) # newbook 30.0.0.0.0 Q.255.255-255 area
<u></u>	R3 (config-rould) # nehwork 40.0.0.0 0.255.255 ann
	R3(config - souter) # exit
<u> </u>	The state of the second second sections of the second seco
- <mark></mark>	RI (config-if) # 1 tof Intoface 100 phace D RI (config-if) # ip address 172.16.1.252.2550 RI (config-if) # no shutdown
	RI (config-if)#1p address 172.16.1.252.2530
	RI (config 4) # no shutdown
	and config - if) H Instruck Roopback O
	Re(config-if)# Interfack loopback 0 Re(config-if)#ip address 17 2.16.1.253.255.255.0.1 Re(config-if)# no shutdown
	ne (unging if) # ro shutaown
	R3 (contin-il) # intentace in
	R3 (conting-is)# in address 172.11. 1 2011 2011 11.
	R3 (config-if)# inlerface loophack 0 R3 (config-if)# ip address 172.16.1.254.255.255.0.0 R3 (config-if)# no shutdown.
	The side work.

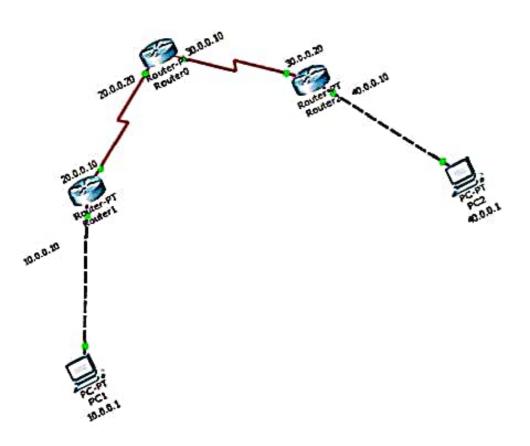


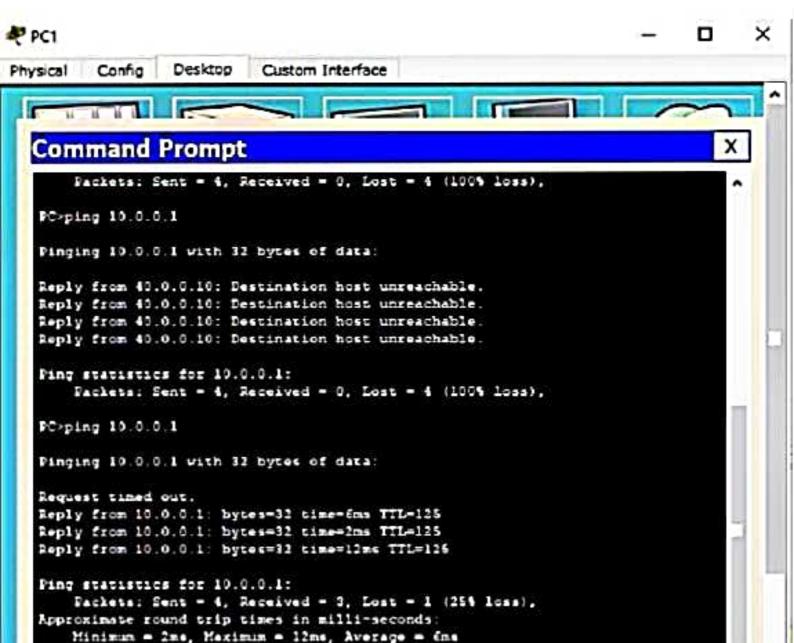
IA nouler RI, RI (conjig) # router ospf 1 RI (config-router) # areal VIrtual-link 2.2.2.2 Bt (config - xoulos) # In sounter R2, R2 (conjig - Youten) IT nouten 03pf 1 R2 (conjig-nouter) # area 1 virtua-link 1.1.1.1
R2 (conjig &-nouter) #exist Result ping 40.0.0.10 pinging 40.0.0.10 with 32 bytes of data Reply from 40-0.0.10 byles=32 Mm = 9ms TTI = 20
Reply from 40.0.0.10 byles=32 Mme = 9ms TTI=120
Reply from 40-0.0.10 bytes=32 Mme = 9ms TTI=120
Reply from 40.0.0.10 bytes=32 Mme = 9ms TTI=120 Ping slahshes from 90-6-0-10

Packeck Sent 4, Receivet 4 Lost = 0

Approximate yound trip nme in milliseconds

Minumum = 2 ms, maximum = 11 ms, Average = 8 ms Observation 08 MJ - open shortest Path first is a growing project for Internet project network 2) It uses a link state nouting alogrithm and falls mo geroup of gateway probicals operating within single of the autonomous system.





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Aouter(config-router) #2rea 3 virtual-link
Router (config-router) #e
90:29:15: *OSPF-6-ADJCKG: Process 1, Nbr 1.1.1.1 on OSPF_VLO from LCADING to FULL.
Loading Done
MIT.
Router (confid) fexit
Routest
ASYS-5-CONFIG_I: Configured from console by console
Routers show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, H - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - CSPF, IA - CSPF inter area
      NI - COPY NOSA externel type 1, NI - COPY NOSA externel type 2
       E1 - CSFF external type 1, E2 - OSFF external type 2, E - ESP
       1 - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, 1a - IS-IS inter area
      * - candidate default, U - per-user static route, o - CDR
       P - periodic downloaded static route
Cateway of last resort is not set
O IA 10.0.0.0/8 [110/65] via 20.0.0.1, 00:00:01, Serial2/0
     20.0.0.0/6 is variably subnetted, 2 subnets, 2 masks
¢
       20.0.0.0/8 is directly connected, Serial2/0
       20.0.0.1/32 is directly connected, Serial2/0
C,
    30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C
       30.0.0.0/8 is directly connected, Serial3/0
        30.0.0.2/32 is directly connected, Serial3/0
O IA 40.0.0.0/8 [110/65] via 30.0.0.2, 00:06:40, Serial3/0
     172.16.0.0/16 is directly connected, Loopback0
Routest
```

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