EXPERIMENT 6

AIM:

Configure OSPF routing protocol.

OBSERVATION:

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27-07-13	the set book stancergift		
21	AIM'S TO THE THE STATE OF THE S		
17/10	Ams is a minimum of monthly protocol. Configure OSPF country protocol.		
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	TOPOLOGY: Him 1 poor singil		
	Aug 1 (Aug 0)		
	16 (P21) 30:0:0:V	now plant	
54:	The manifest of Bernard of the const	730	
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2.4	Topology: Topology: Aug 1 A		
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	hours this ties in mill sough)/0/12/20/20/20/20/20/20/20/20/20/20/20/20/20	
.2/5	- Louis manigue uns	numinal T	
		9	
	10.0.0.10	40.0.0.10	
	00.010.001	04-240.0.0.1	
	PROCEPURE:	NO	
		W/W	
la	Continue Drie	10 10 11	
	and Contract to scott	The II address	
	Configure your PC's with and Gateway as given in the	topology.	
2.	Config your each of you to	outers with	
3	Il addresses given in the to	nolon	
		P 109.	
3.	Enepsulation mand 1	1 1 11	
	Encopsulation ppp and clock take need to be set as set in RIP protocol.		

Bafna Gold of stones something the Contraction 4. Now enable IP routing by configuring lospy nouting photocoldin all thouters and Ix In Router Report society of Common and Ra Crionia) At nowley ospl I R1 (config - souta) # souter -id 1:16) R1 (config touter) # network 10.0.0.0 0.255.255.255 and Re (config = nonter) # metwork 120.0.0.0.0.255.255.255 0001 Recording-vointer Hours to the Manual SA In Route R2. Creating or virtual link. R2 (config) It router ospl 1 R2 (config - nonter) # nonter - 10/ 2,2/2/2/ R2 (coping - 100 to) Henetwork 200.0.00 255.255.255 area 1 R2 (ionig = 16cta) #netrack 30.0.0.0 0.255.255 255 area 0 R2 (config monter) # nothock (coast hos) 159 In Residen R2 In Router R3 R3 (config) # routed bopfo (1 at # (pilms) (s) R3 (orlige houte) # router ospf 1 ina) R3 (config reacter) # societer rid 3.3:3:3 R3 (config-10 wter) # network 30.0.00.255-255.255 area 0 R3 (config-rowled) # network 40.0.0.0. 0.255.255.255 area 2 R3 (configrante) # motors cait.

RL (confg) # interface serial 2/0 4. R1 (config-ip) # interface / boopback 0/1
K1 (config-ip) # ip add 172.16.1.292 255.255.00 R1 (whig-if) It no shutebour. Re (conjug) # interface 3/5 sevial 3/6 of R2 (untig-if) # interface people o K2 (wig-i) # ip add 172-161:252 285:255.00 (Ker (config - if) It no shutdown : () 1.) 1 K3 (confo) to interface secral 2/0000) R3 (configure) # interfacé bophack On) R2 (only-1)) # ip add 172.16.1-254 255-255-00 R3 (configrif) It no shutdown. 5. Creating a virtual link. 1 go what # (plas) SA In Routers RIT, isture to Cotice of the say RI (config - noviter) # out I virtual - link 2.2.22
RI (config - noviter) # out I virtual - link 2.2.22 In Router R2, la Parta 13 R2(config) # router osphit to # (pros) 89 R2 (config reporte) Haved 1 wintral wink 1.111 R2 Config - Front of the Exite son of on SA 23 (configuration of the discontinuity (strong grow) EX 25-225-225.0 .0.0,000 focuting the Coloron office) & 4 1. ties outs It (otras pipes) ESI

Bafna Gold — OUTPUT: Router O. 010001 299 C 10:000 p is directly connected, Fast Ethurst of 20.0.0.0/8 is variably subnetted 2 subnots, 2 marks C 20.0.00/8 is directly connected Equil 210 C 20.0.0.0/1 is directly connected, secol 210 0 30.0.0.0/8 [110/129] via 20:0.0.2 00:03:30, suial 2/0 6 TA 40.0.010/8 (110) 129 Wa 20.0.0.2, 0003:30 Sazisto e 172.16.0.0/16 is directly connected, Loopback o solo a of sol whitter is Packet Sent - 10,00,00,00,000 + + +002 1 dodson Appropriate dound trying times in miller hand Ping, 40.0.0.10:01 cas municipal pinging 40-0:000 with 32 bytes of date: Reply from 40.0.0.0.10: bytes = 32 time = 8ms TTL=125. Reply from 40.0.0.10: bytes = 32 time = 2ms TT = 125 Reply from 40.0.0.10: bytes = 32 time = 7 ms TL=125 Reply from 40.0.0.10: bytes = 32 time = 13 ms TTL=120

Ping statistice for 40.0.0.10:

Packets: sent-4, Received = 4, Lost = 0 (or. Loss) Approximate round trip times in milli-secondo: Minimum = 2ms, Meximum = Brs, Average = 7ms

PC2: 40.0.0.10 o istuart ping 10.0.0.10 piring 10.0.0.10 with 32 bytes of date: ly subjected a collection of Reply from 10.0.0.10: bytes = 32 time =9ms TTL=125 Reply from 10:00:10: bytes=32 time=6mi TTZ=125 Reply from 10.00.10 : bytes 32 time = 16m ITL = 125 kepty from 10.0.0.10 by tes=32 time: 2 ms TTL=125. ortonos atrait is divole is Pig statisties Por 10.0.0.10: Packet: Sent = 4, Received = 40, Los to (10x Loss) Approximate wound trip times in milli-seconds: Miningn=2ms, Maximum=16ms, Average In pinging ted world with 32-bytes of det! 2012 2013 = anit 28: 20 fed: (01.0.0.0) 1 8 23 1/40 9 50 Lone soit 52: What: 010.0.00 may Mask Reply Jan 40.0.0.10: bytes = 32 time = 7 ms til 151 2008 = 2016. SE= 12tyd: 010:0000 may 5/404 101.0.0.00 not setable and Packets! Soutety, Perceived = 7. Lost = O. Coly Approximate would that times in milli-sedon and and minimal , eves municipal

Result:





