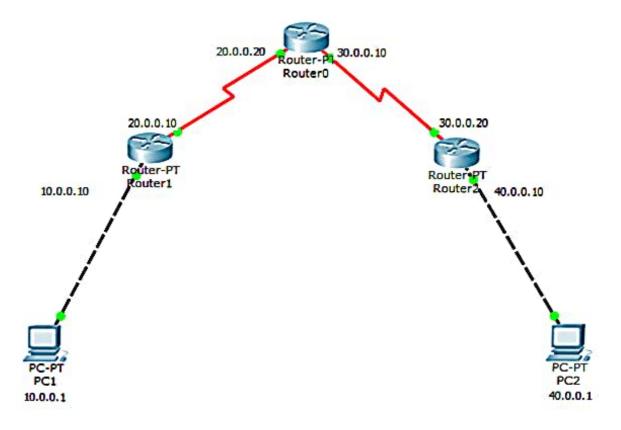
Aim-Configuring OSPF protocol for a system of 3 mosters. Topology= Area 1 Area 0 20.0.0.1 Router2 30.0.0.1 Router3 10.0.0.1 20.0.0.2 30.0.0.2 40.0.0. Area 3 > Copper-cross PC1 PC2 10.0.0.10 40.0.0.10 Procedure- Select the two PC's and three muters and join the 2 PC's to the two governs with
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Procedure- 1 Select the two PC's and three muters and join the 2 PC's to the two pouters with
join the 2 PC's to the two overters with
join the 2 PC's to the two overters with
join the 2 PC's to the two overters with
copper-voss over wires
a) Join the a pos souters to the third router
with clocked copper wire.
3/2 Configure the PC's and gaturays with IP's
4) Configure the souters as per the topology
above with the IP addresses
to Encapsulation ppp and clock rate need
to be set as done in rip protocol
experiment.
Configuring each muter with OSPF protocol.
for muter 4-
> enable
> config t

	# muter ospfold
PI (config	Att soutex aspt 111.1.1
?1(config-	
RI(config-a)# network 10.000 0 255, 255 255 area 3 1
1 (config-) H Melwork ab. 0 0 0 0 251 as 1 as
?1(config=	It exit a hadron material with primary 1881
3 7 7 2	125, WICh at Chi undling of talk film in 128 1-12
	O I
	Router 0
	> config t
	# router ospf 1
o (config-	# router-id a 2 2 2 2
o contiger	# network 20.0.0.0 0.21.255.255 area 1 3
20 (config-z	# network 30,000 0.25 250.200 area 0
	Itt exitoreon which is select or son or
U	a fit a feet of
	Router 2
	Router 2 > config t Ago where # (plan) 12
Ralonto	>config t topo whome # (estan) 13
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Refantige	>config t # router aspf 1. # router-id 3.3.3.3 # network 300000255257257 area 0 # exit
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	R2(config-if) It inderface toop back o
	Dalamber 11 H on a liver 1172 16 1 253 255 000
	R2 (config = if) # 10 address 172.16.1.253-255.2500 R2 (config = if) # no shutdown
	R2 (Con Hg = 11) IT no chut down
	Euro S.O. M. D.C. O. O. D.C. S. M. Custra de Sent
	R3 (config-if) # interface loopback 0
	R3 (config-11)# ip address 172.16.1.254 255.255.00 R3 (config-11)# no shuldown
ber	Ralconfig-if)# no shuldous
	o who & ship
	R3 # show ip moute
The state of the s	1 how there is to do the
	C 40.0.0.0/8 is directly connected
destructions of the second	C 30.0.0.0 8 is directly connected, senal 310
	30.0.0.1 32 is directly connected, señal 3/0
	C 40.0.0.1/32 is directly connected.
	·
8>	In Router RI,
Association of the second	RI (config) # muter ospf 1
bergage	RI (config-router) # area 1 nrhual-link 2222
Ton.	In Royfer R2, 8212 like of or state
1 a Million and well-service covers access on the result response and con-	R2 (config) # mules oupf 1
	R2 (config-router)# area 1 virtual-link 11:11
Angles (EV) A que reconstructo prime transferente a será sicial en fres attravento a transferencia como de Constitución de la constitución de la	R2 (contig-router) # exit
And the state of t	
	Now, a vistual link is established between
The second secon	area 3 and area ov al paragrant
The second process of the second seco	The state of the s
94	show ip mute must be configured in all
2011	routers store of our blood After Out 1819
	for router 2 completed on # (4: other) ball
The second secon	
面上文化版 · 并是《如义》并是《	



	0 1A 10.0.0.0/8 via 20.0.0.1,00:00:01, Sexal2/c
17(1)	20.000/8 is vertically subnetted, 2 subne
1	1912 2 marks weither with the last
	C 20.0.0.0/8 is directly connected, Senal2/0
	C 20.0.0.1/32 is directly connected, Serial 2/0
	30.0.0.0/8 is variably subnetted, 2 subnete,
	2 marks
3	C 30.0.0.0/8 is directly connected, Serial 3/0
	C 30.0.0 8/32 is directly connected, Senal 3/0
	0 1A 40.0.0.0 8 via 30.0.0.2, 00:06:40,
	Serial \$10
* -	C 172.16.0.0/16 is directly connected, Loopbock
	5 1 1 1 1 1 1 1 1 1 1
	Result -
	> ping 40.0.0.10
	Pinging 40.0.0.10 with 32 bytes of data:
in the	De Maria Villa distance on 190121. It
575 4.	Reply from 40:0.0.10: byte=32 time=9 ms TTL=125
	Roply from 40.0.0.10: bytes = 32 time = 9 me TTL = 125
W. Th	Reply from 40.0.0.10: byte=32 time=9 me M=125
-64	Reply from 4000.10: bytes=32 time=9 ms TL=125
7 (%)	Pipa statistice for 40.0.0.10:
	Packete: Sent = 4 Received = 4 Lost = 0
	Approximate round hip times in milliseconds:
	Minimum = 2 ms, Maximum = 12 ms, Average = 8 o
10/	down all with march alle marchingth day
	I have been with the labely course
	15/2
	MI mail and all mail
	V





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Physical (

Config

CLI

IOS Command Line Interface

```
Router(config-router) #area 3 virtual-link 1.1.1.1
Router(config-router)#e
00:28:15: %OSPF-5-ADJCHG: Process 1, Nbr 1.1.1.1 on OSPF VL0 from LOADING to FULL,
Loading Done
xit
Router (config) #exit
%SYS-5-CONFIG I: Configured from console by console
Router#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway 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
     20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
        20.0.0.0/8 is directly connected, Serial2/0
C
        20.0.0.1/32 is directly connected, Serial2/0
     30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
        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
Router#
```

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