WEEK-END ASSIGNMENT-12

Computer Networking Workshop (CSE 4541)

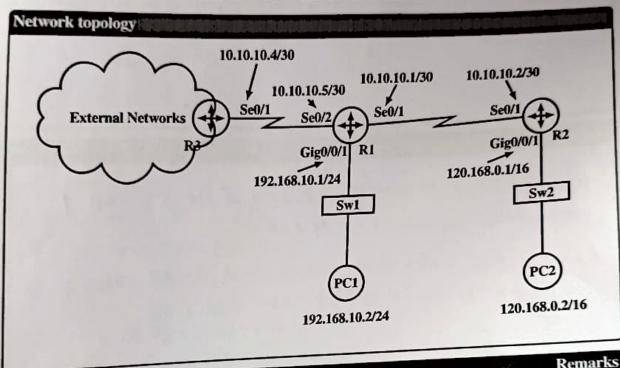
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Program Outcome: PO.

Submission on: 18-05-2024 Learning Level: L4

Routing Protocol

In this exercise, you will use Static and RIP (dynamic routing) to make communication possible. Considering R3 to be the destination for other networks which are not available in internal network:



Commands used in Router RI for Static routing

RI Yen able

RI # conft

RI # conft

RI # config) # ip route 10.10.10.4 255.255.252

PM (config) # ip route 10.10.10.4 255.255.0.0

PM (config) # do write

PM (config) # do write

PM (config) # exct

Commands used in Router R2 for Static routing

Remarks

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R2 # config t

R2 # config # ip route 192,168-10.0 255.285.285.285.2

R2 (config) # ip route 10.10.10.4 255.285.255.292

R2 (config) # ip route 10.10.10.4 255.285.255.292

Find routing table in R1 for Static routing

Remarks

Ronter Pli directly connected to R3 on 1
nopewith ip 10.10.10.4120
Ronter R2 is directly connected to Pl an I nop
with 10.10.10.2/ 30 on network
120.16 & 0.0

Find routing table in R2 for Static routing

Remarks

Rowler R1 is drawfry connected to R2 on I no P with ip 10.10.10.1 on network Rowler R3 is 192.168.10.0 connected ou stantly to R2 on 2 hops with heat hop ip 10.10.10.1 Now, consider adding RIP routing instructions to the routers;

Commands used in Router RI for RIP routing M > enable M + Config + RI cconfig) # rower nip RY cconfig) # verwion 2 RY cconfig) # network 10.10.10.4 124 cconfig) # network 10.10.10.0 RY cconfig) # network 120.168.0.0 RY cconfig) # do cor RY cconfig) # do cor RY cconfig) # do cor

Commands used in Router R2 for RIP routing R2 > enable R2 # config + R2 (config) # router nip R2 (config) # network (20.168, D.) R2 (config) # network 10.10.10.0 R2 (config) # network 10.10.10.0 R2 (config) # do wo R2 (config) exit R2 (config) exit

D1	Remarks
Find updated routing table for router RI Table Routed By is	THE RESIDENCE
Find updated rounds	
Find updated routing table for router RI As part the of whing table Routed By is connected to 5 netheroscue by:-	N P P
The state of the s	
connected to acreetly via see/1	
10.10.0 - dometry	
ed acreeding via se 0/2	
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
192.168 1000	
1602 0:0	
(De la salutania en la	
external network -> dictantly on I hop.	
enformer of	

Find updated routing table for router R2

As of the updated routing table of Router Remarks RQ it is connected to I retworks by:-120.168, 0.0 -> directly waging 0/0/1. 10.10.10.0 - durectly n'd 8.011 10.10.10. H -> distantly on hopes via seal 1 192,68.10.0 - distantly on 1 mpd no 0011 exterenal network -s distantly on super-

That changes are you able to observe in routing tables? Give the reason for your observation:

In weing the rip protocol allthe direct of distant network details are shared wathe hip protocol and abter the configuration enerty router in the networn has these details.

Now you want to change the administrative distance of static routing in R1 to 200.

Commands used in R1

Observation & Reasoning

Remarks

Remarks

P 1/2 enumal P1 \$ conf t 120.168. 0.0 0.0.0.15 Exconfid) It ibrome Ry (config) Horst 21# copy runwing -config stantap-config

What changes you observed in routing table of R1? Give reason for such observation;

Observation & Reas	oning			Remarks
Static networth canada	route MP (192.168.1 d dynami I from ne	e router to	ather r	reswork

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