Date: Max, 9, 2021

# Aim: Dynamic routing Protocol RIP V2

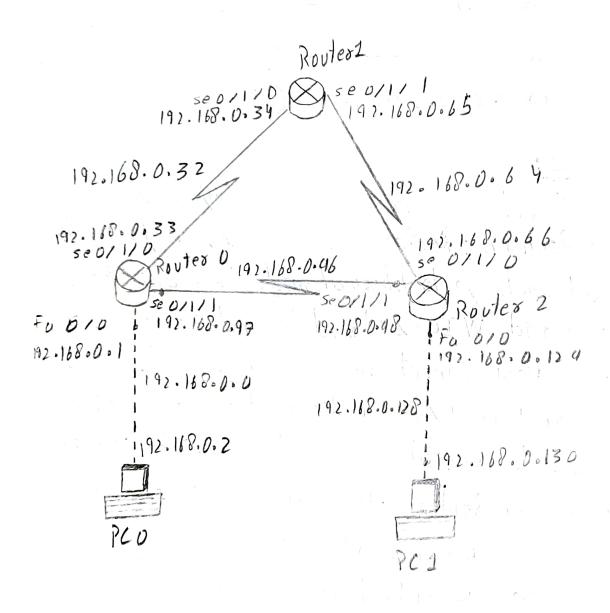
### Components Required:

1.	Routers		(3	)
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- 2. Serial DCE wires 3
- 4. Copper cross-over wires 2

#### Procedure:

Place 3 routers on screen with component name Router 0, Router 1, and Router 1 respectively. On each router go to physical mode turn of the device add 'WIC-2T' module and power on the device. Now connect serial 0/1/Dofo Router 0 to serial 0/1/O of Router 1; serial 0/1/O of Router 1 of Router 1 to serial 0/1/O of Router 2, serial 0/1/I of Router 1 to serial 0/1/O of Router 2, serial 0/1/I of Router 2 to serial 0/1/I of Router 0. Add 2 PC to the network with name PCO and PC1. Connect PCO to Fast Ethernet 0/O of Router 0 and PC1.



#### on PCO:

Enter 17 address 192.168.0.2 Subnet mask 255.255.255.224 Default gateway 192.168.0.1

## On PC1:

Enter iPaddress Subnet mask

A2.168.0.130 255.255.255.22 4 Default gateway 192.168.0.129

## On Routex O:

- 1. [yes/no]: no
- 2. Router > enable
- 3. Router # config t
- 4. Router (config) # int fa 010
- 5. Router Config-it) # in add 192.168.0.1 255.255.255.25.25 6. Router Config-it) # no shut down 7. Router Config-it) # excit

- 8. Router (config)# int sevial 0/11/0
- q. Router (config-if)#ip add 192:168.0.33 255.255.255.224 10. Router (config-if)# clock rate 64000
- 11. Router (config-if)# no shutdown
- 12. Router (config-if)#exit
- 13. Routex (config)# int sexial 0/1/1
- 14. Router (config-if)# ip add 192.168.0.97 255.255.255.224
- 15. Router (config-if)# noshutdown
- 16. Routex Config-i-1)# exit

17. Router Config )# souter sih

18. Routes (corfig-souted)# version 2

19. Routes (config-routes)# network 192.168.0.0

20. Router (config-soutes)# network 192-168-0.32

21. Routes (config-soutes)# network 192.168.0.97

#### On Router 1:

1. [yes/no]:no

2. Routes > enable

3. Router # config t

4. Router Config ) # int fa 016 serial 0/1/6

5. Router (config-if) # ip add 192.168.0.34 255.255.255.224

6. Router (config-it) # #no shutdown

7. Router (config-if) # exit

8. Router (config)# int serial 0/11/

9. Routex (config-if) #ipadd 192.168,0.15 255,255,255.224

10. Router (config-if)# clock rate 64000

11. Routex (config-it)# no shutdow n

12 Routes (config-it)# excit

13. Router (config)# router rih

14. Router (config-souter)# version 2

15. Routex (config-router)# network 192.168.0.32

16. Routex (config-routes)# netwook 192.168.0.64

17. Router (config-router) # exit.

## On Rover 2:

1. [yes/no]: no

2. Routes > enable

3. Routes # config t

- i. Router (config.if)# int fu 010 5. Router (config.if)# i/ add 192.168.0.120 255.255.255.224
- 6. Router (config-if)# no shutdown
- 7. Router Config-if)# exit
- 8. Routex (config)# int sevial 0/1/0.
- 9. Router (config-if) # ip add 192.168.0.66 255.259.255.22 4
- 10. Routes (config-if) # no shutdown
- 11. Router Config-if) # exit
- 12. Routed (config)# int sesial 011/1
- 13. Routed Config-if)# 1/ add 192.168.0.48 255-255.255.224
- 14. Routed (config-if)# clock rate 64000 15. Routed (config-if)# no shutdown
- 16. Routes (config-if)# exit
- 17. Router (config)# int serial router ath
- 18. Routes (config-soutes)# yession 2
- 19. Router (config router)# network 192.168.0.64
- 20. Routex (config-soutex)# network 192.168.0.46
- 21. Router (config- pouter) # network 192.168.0.128

### Verification:

- 1. Go to PCO terminal and type command
- 2. Piny 192.168.0.2
- 3. Piny 192.168.0.30
- 4. Repeat steps 2 and 3 for PC1

# Result: Dynamic routing using Protocol RIP VZ was successfully done.