

PLATINUM JUBLEE

Celebrating 75 years of WCE & 20 years of Department





Walchand College of Engineering, Sangli

(Government Aided Autonomous Institute)

Department of Information Technology

Computer Networks Lab EVEN SEMESTER AY 2021-22

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Experiment Number: 7

Experiment Name: Implement Routing Information Protocol (RIP) to observe the

on-demand up gradation of routing table to configure multiple gateways on the

Internet.

Contents:

Problem Statement: Implement Routing Information Protocol (RIP) to

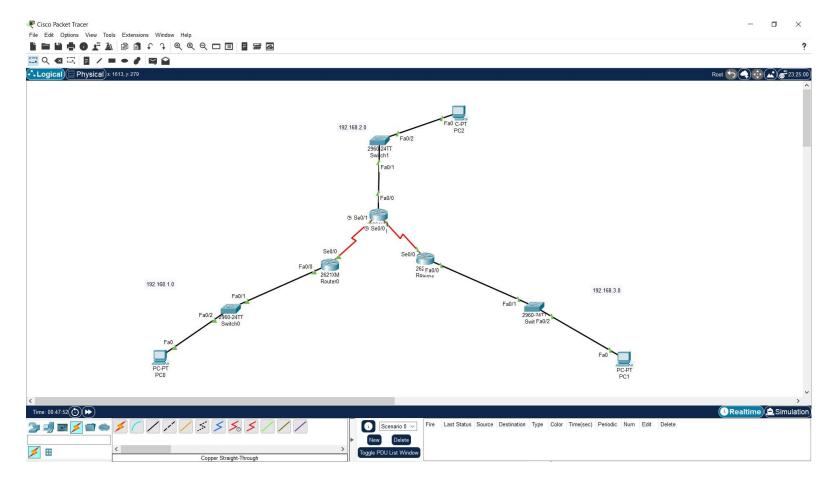
observe the on-demand up gradation of

routing table to configure multiple gateways on the Internet.

Platform: CISCO packet tracer

Devices Required: PC, Switch (2960-24TT) and Router (2621XM)

Design:



Implementation:

- i) Create the topology.
- ii) After creating the topology add WIC 1 port to the router.
- iii) Configure the network.

- iv) write command "route rip", this command places the switch in router-rip configuration mode to configure the routing information protocol routing process.
- v) next command is "network ip", here we have to put ip on the networks with which the router is connected.

```
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#route rip
Router(config-router)#network 192.168.1.0
Router(config-router)#network 10.0.0.0
Router(config-router)#exit
Router(config)#
```

- vi) Repeat this same for all the routers.
- vi) Now enter "do show ip route" which will tell you the route table.

```
Router(config) #do show rip route
show rip route
% Invalid input detected at '^' marker.
Router(config) #do 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
     10.0.0.0/24 is subnetted, 1 subnets
       10.0.0.0 is directly connected, Serial0/0
     20.0.0.0/8 [120/1] via 10.0.0.2, 00:00:13, Serial0/0
     192.168.1.0/24 is directly connected, FastEthernet0/0
     192.168.2.0/24 [120/1] via 10.0.0.2, 00:00:13, Serial0/0
     192.168.3.0/24 [120/2] via 10.0.0.2, 00:00:13, Serial0/0
Router (config) #
```

Results: All the routers update their route table using routing interface protocol.

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