MIT WORLD PEACE UNIVERSITY

Computer Networks
Second Year B. Tech, Semester 3

CONFIGURATION OF ROUTING PROTOCOLS RIP, OSPF AND EIGRP

PRACTICAL REPORT
ASSIGNMENT 7

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November 27, 2022

Contents

1 Aim and Objectives

To learn how to configure a simple LAN connection using Cisco Packet Tracer.

2 Devices

2.1 Devices Used

1. 1 Generic Switch

2. 2 Switch 2960 with 24 LAN Ports

3. 6 Generic PCs

4. 4 Laptops

2.2 Device Info and IP Addresses

Subnet Mask: 255.255.255.0

Name	Type	IP
PC0	PC	192.168.10.1
PC1	PC	192.168.10.2
PC2	PC	192.168.10.3
PC3	PC	192.168.10.4
PC4	PC	192.168.10.5
PC5	PC	192.168.10.6
Laptop0	Laptop	192.168.10.7
Laptop1	Laptop	192.168.10.8
Laptop2	Laptop	192.168.10.9
Laptop3	Laptop	192.168.10.10
Switch0	2950-24 Switch	None
Switch1	2950-24 Switch	None
Switch2	Generic Switch	None

3 Cables

1. Straight LAN Cable to connect unlike Devices

2. Crossover LAN Cable to connect like Devices

3.

4 Procedure to Configure LAN

5 Commands
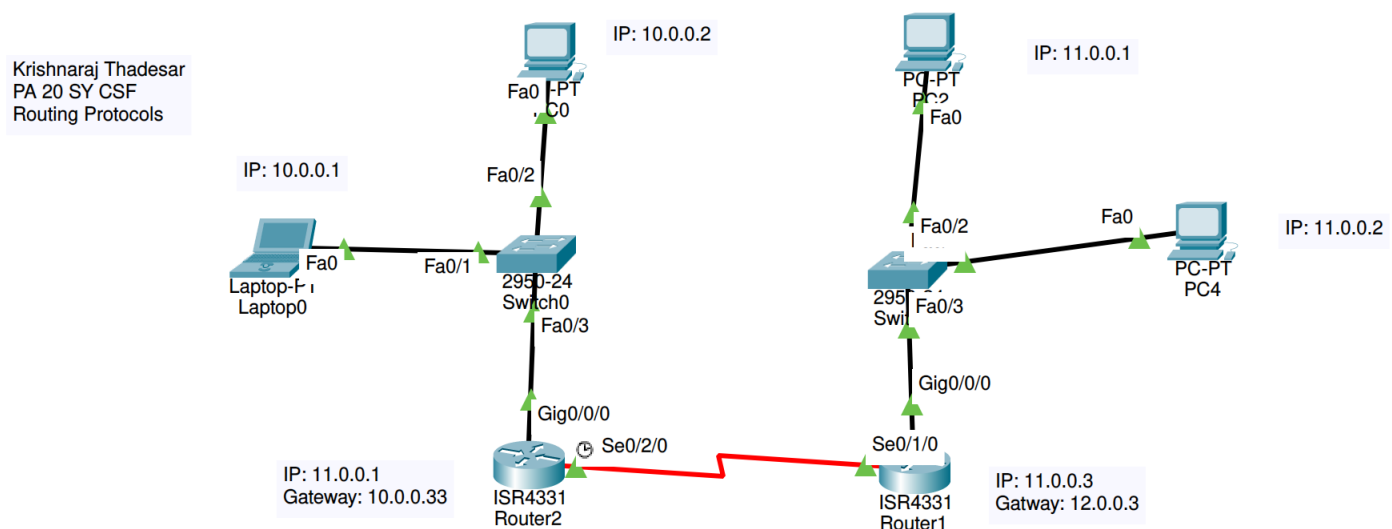
1. ipconfig

2. ping

6 Platform

Operating System: Arch Linux x86-64
IDEs or Text Editors Used: Visual Studio Code
Programs Used: Cisco Packet Tracer v6.0.1

7 Output

8 Connection Screenshot

9 Conclusion

Thus routing Protocols were Executed on a simple LAN, and the connection was verified using the ping command. 3 Routing Protocols were executed successfully. RIP, OSPF and EIGRP. Their Differences were studied and understood.