

MIT WORLD PEACE UNIVERSITY

Computer Networks
Second Year B. Tech, Semester 3

CONFIGURATION OF ROUTING PROTOCOLS RIP,
OSPF AND EIGRP

PRACTICAL REPORT

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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

4 Procedure to Configure LAN

5 Commands

1. ipconfig
2. ping

6 Platform

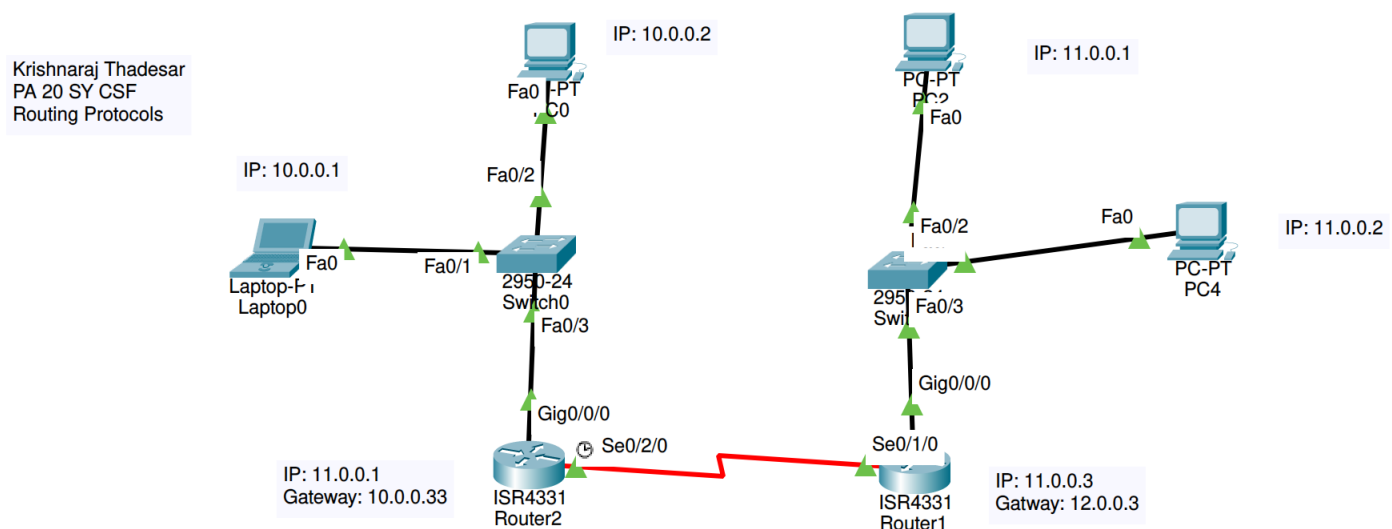
Operating System: Arch Linux x86-64

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.