



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

WORKSHEET 2.4

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Branch: CSE

Section/Group: 807-B

Semester: 4th

Date of Performance: 01/05/23

Subject Name: Computer Networks

Subject Code: 21-CSP-256

1. Aim: Configure a network using Link State routing Protocol using Packet Tracer or NS2.

2. Objective: To simulate link state routing.

3. S/W Requirement: Packet Tracer or NS2.

4. H/W Requirement:

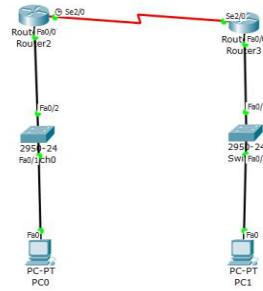
- **Processor** – Any suitable Processor e.g. Celeron
- **Main Memory** - 128 MB RAM
- **Hard Disk** – minimum 20 GB IDE Hard Disk
- **Removable Drives** – 1.44 MB Floppy Disk Drive – 52X IDE CD-ROM Drive
- PS/2 HCL Keyboard and Mouse

5. Method:

1. First select 2 pcs, 2 switches and 2 generic routers.
2. PC1-details, ip address- 192.168.10.2 and default gateway—192.168.10.1
3. PC2-details, ip address-192.168.20.2 and default gateway—192.168.20.1
4. In router-1 write ip address same as default gateway in pc1 and set clock rate 64000.
5. In router-2 write ip address same as default gateway in pc2 and set clock rate 64000.
6. Router (config-if)#exit
Router (config)#router OSPF 1
Router (config-router) #network 192.168.10.0 0.0.0.255 area 0
Router(config-router) #network 10.0.0.0 0.255.255.255 area
Router(config-router) #exit

7. Router (config-if)#exit
 - Router (config)#router OSPF 1
 - Router (config-router) #network 192.168.20.0 0.0.0.255 area 0
 - Router (config-router) #network 10.0.0.0 0.255.255.255 area 0
 - Router (config-router) exit
 - Router (config)#
8. Now send the packet from one pc to other.

Output:



Learning Outcomes:

1. Learn about different types of topologies and their working.
2. Learn how to make connection and assign ip and subnet address to pcs.
3. Learn about how packet flow from one pc to other.