

PES UNIVERSITY EC CAMPUS, BANGALORE

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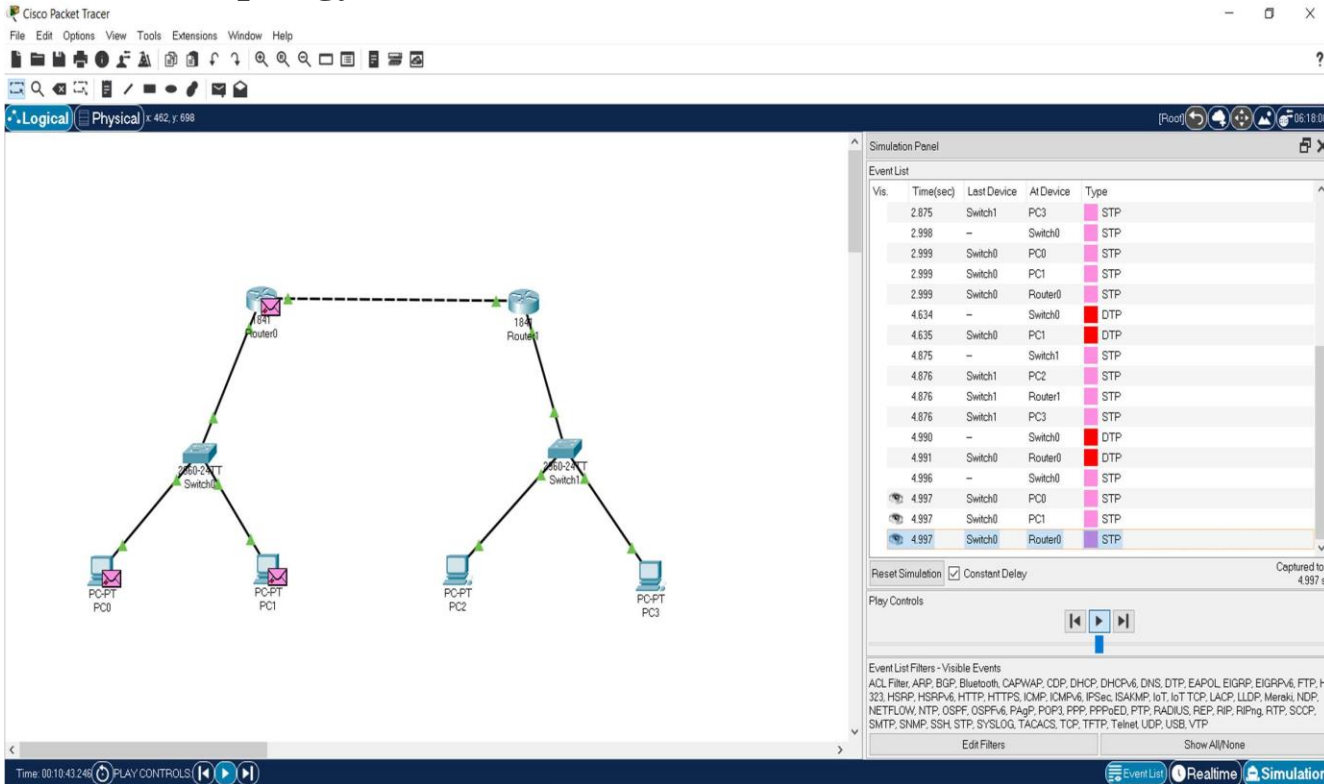
Subject: Computer Network Laboratory

WEEK No: 6

Observation: Designing and Simulation of
Network Topology using Cisco Packet
Tracer

Task 1 (Demo)

Network Topology:



PC & Router Configuration Details:

PC0: IP Address ---> 10.0.0.1
Gateway ---> 10.0.0.3

PC1: IP Address ---> 10.0.0.2
Gateway ---> 10.0.0.3

Router 0:
FastEthernet0/0 ---> 10.0.0.3
FastEthernet0/1 ---> 20.0.0.1

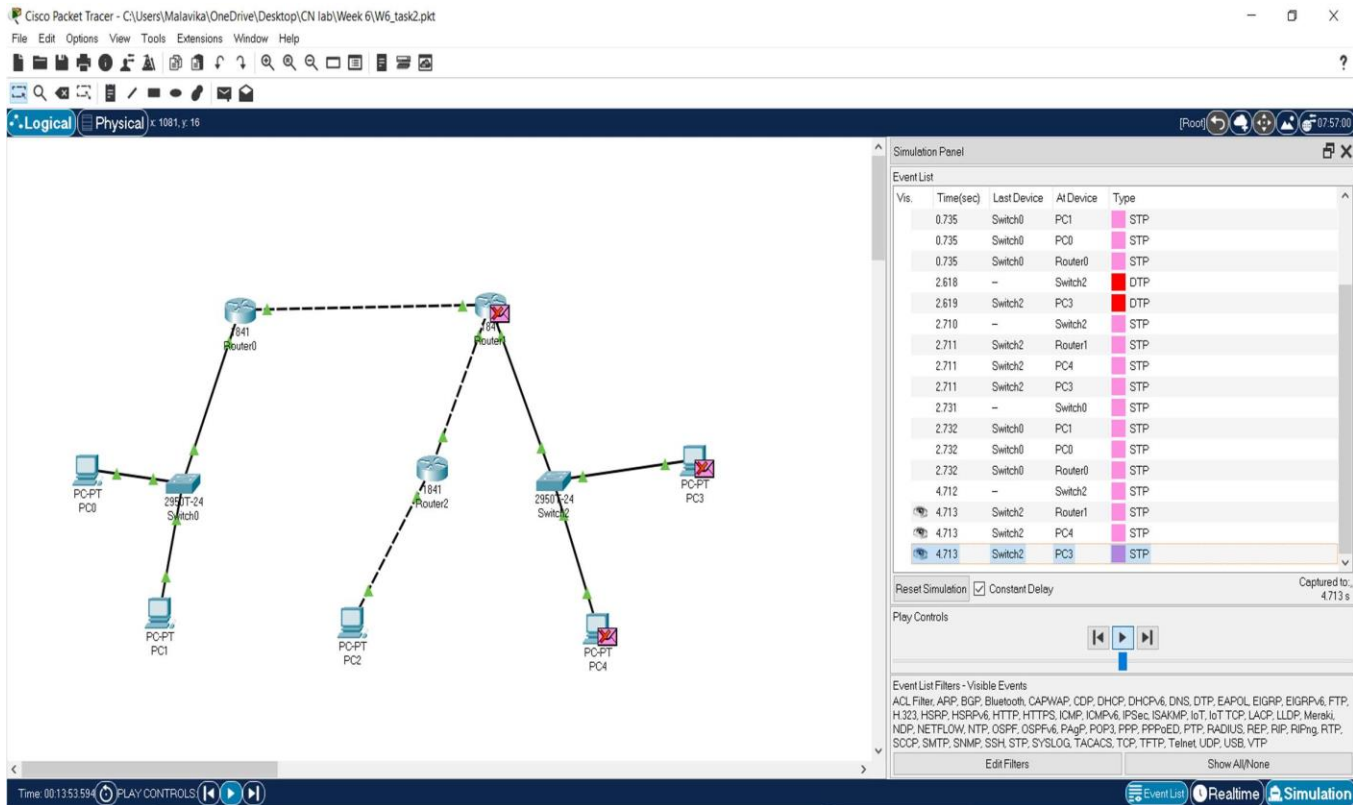
Router 1:
FastEthernet0/0 ---> 20.0.0.2
FastEthernet0/1 ---> 30.0.0.1

PC2:
IP Address ---> 30.0.0.2
Gateway ---> 30.0.0.1

PC3:
IP Address ---> 30.0.0.3
Gateway ---> 30.0.0.1

Router	Network	Next Hop
Router 0	30.0.0.0	20.0.0.2
Router 1	10.0.0.0	20.0.0.1

Task 2 :



PC & Router Configuration Details:

PC0: IP Address ---> 1.1.1.2
Gateway ---> 1.1.1.1

PC1:
IP Address ---> 1.1.1.3
Gateway ---> 1.1.1.1

Router 0:
FastEthernet0/0 ---> 1.1.1.1
FastEthernet0/1 ---> 3.3.3.1

PC2: IP Address ---> 6.6.6.2
Gateway ---> 6.6.6.1

Router 2:
FastEthernet0/0 ---> 6.6.6.1
FastEthernet0/1 ---> 5.5.5.1

Router 1:

FastEthernet0/0 ---> 2.2.2.1

FastEthernet0/1 --->3.3.3.2

Ethernet 0/1/0----->5.5.5.2

PC3: IP Address ---> 2.2.2.2

Gateway --> 2.2.2.1

PC4: IP Address ---> 2.2.2.3

Gateway --> 2.2.2.1

Routing table entries:

Router	Network	Next Hop
Router 0	2.2.2.0	3.3.3.2
Router 0	5.5.5.0	3.3.3.2
Router 0	6.6.6.0	3.3.3.2
Router 1	1.1.1.0	3.3.3.1
Router 1	6.6.6.0	5.5.5.1
Router 2	1.1.1.0	5.5.5.2
Router 2	6.6.6.0	5.5.5.2
Router 2	2.2.2.0	5.5.5.2