

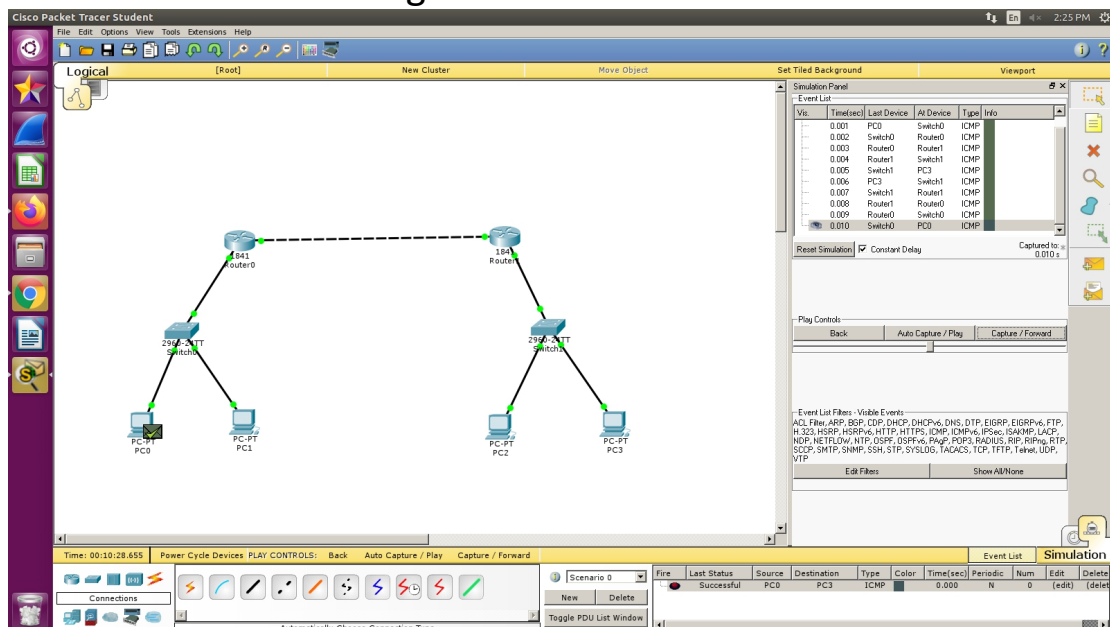
# CN Lab Report – Week 6

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## TASK 1

### Configuring Topology

- The network devices are organised in the required topology.
- IP Addresses have been assigned to each interface being used on the routers and end systems. The routing tables are then configured manually by adding the required routing information
- A PDU packet is then transferred from one end system on a network to another on a different network.
- If the packet transfer is successful, a successful status is shown in the bottom right corner.



## Configuring Network and Routing Tables:

### End Systems

End System	IP Address	Subnet Mask	Gateway
PC0	10.0.0.1	255.0.0.0	10.0.0.3
PC1	10.0.0.2	255.0.0.0	10.0.0.3
PC2	30.0.0.2	255.0.0.0	30.0.0.1
PC3	30.0.0.3	255.0.0.0	30.0.0.1

## **ROUTERS**

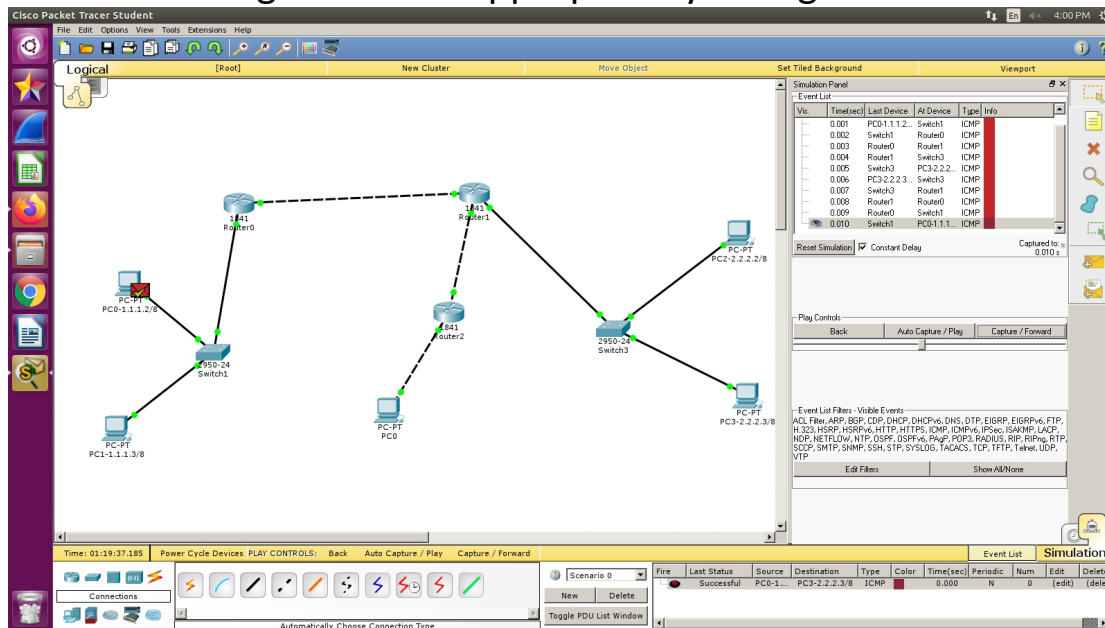
Router	Interface Name	IP Address	Subnet Mask
Router0	FastEthernet0/0	10.0.0.3	255.0.0.0
Router0	FastEthernet0/1	20.0.0.1	255.0.0.0
Router1	FastEthernet0/0	20.0.0.2	255.0.0.0
Router1	FastEthernet0/1	30.0.0.1	255.0.0.0

## **Routing Table**

Router	Destination Network	Next Hop
Router0	30.0.0.0	20.0.0.2
Router1	10.0.0.0	20.0.0.1

## TASK 2

The above performed task is repeated with another topology and the routing tables are appropriately configured.



## Configuring Network and Routing Tables:

### End Systems

End System	IP Address	Subnet Mask	Gateway
PC0-1.1.1.2/8	1.1.1.2	255.0.0.0	1.1.1.1
PC1-1.1.1.3/8	1.1.1.3	255.0.0.0	1.1.1.1
PC0	6.6.6.2	255.0.0.0	6.6.6.1
PC2-2.2.2.2/8	2.2.2.2	255.0.0.0	2.2.2.1
PC3-2.2.2.3/8	2.2.2.3	255.0.0.0	2.2.2.1

### ROUTERS

Router	Interface Name	IP Address	Subnet Mask
Router0	FastEthernet0/0	1.1.1.1	255.0.0.0
Router0	FastEthernet0/1	3.3.3.1	255.0.0.0
Router1	FastEthernet0/0	3.3.3.2	255.0.0.0
Router1	FastEthernet0/1	5.5.5.2	255.0.0.0
Router1	Ethernet0/1/0	2.2.2.1	255.0.0.0
Router2	FastEthernet0/0	5.5.5.1	255.255.255.0
Router2	FastEthernet0/1	6.6.6.1	255.255.255.0

### **Routing Table**

Router	Destination Network	Next Hop
Router0	2.2.2.0	3.3.3.2
Router0	5.5.5.0	3.3.3.2
Router0	6.6.6.0	3.3.3.2
Router1	1.1.1.0	3.3.3.1
Router1	6.6.6.0	5.5.5.1
Router2	3.3.3.0	5.5.5.2
Router2	1.1.1.0	5.5.5.2
Router2	2.2.2.0	5.5.5.2