Week #6

Designing and Simulation of Network Topology using Cisco Packet Tracer

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Section : D

Task 1 (Demo) Network Topology

- The needed topology was created as shwon in screenshots.
- IP address, gateways and routing was entered manually as shown below.
- A simple PDU was sent from one network to the other.
- The successful status of the PDU can be seen in the botton right.

Configuration followed :

End systems :

End System	IP Address	Subnet Mask	Default Gateway
PC5	192.168.1.10	255.255.255.0	192.168.1.1
PC6	192.168.1.11	255.255.255.0	192.168.1.1
PC7	192.168.2.10	255.255.255.0	192.168.2.1
PC7	192.168.2.11	255.255.255.0	192.168.2.1

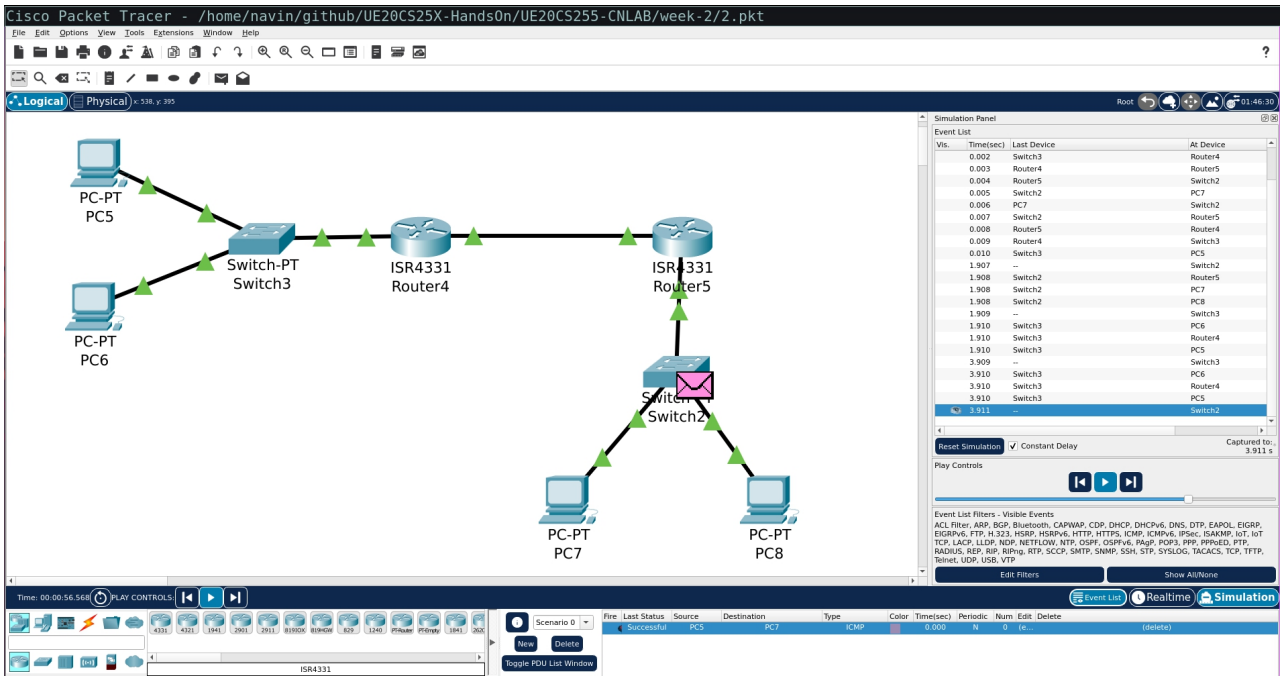
Routers :

Router	Interface	IP address	Subnet Mask
Router4	GigabitEthernet 0/0/0	192.168.1.1	255.255.255.0
Router4	GigabitEthernet 0/0/1	10.0.4.1	255.0.0.0
Router5	GigabitEthernet 0/0/0	192.168.2.1	255.255.255.0
Router5	GigabitEthernet 0/0/1	10.0.4.2	255.0.0.0

Routing Table :

Router	Destination	Next Hop
Router4	192.168.2.0	10.0.4.2
Router5	192.168.1.0	10.0.4.1

Screenshots :



Task 2 (Mandatory for Week-6)

- The needed topology was created as shwon in screenshots.
- IP address, gateways and routing was entered manually as shown below.
- A simple PDU was sent from one network to the other through another router.
- The successful status of the PDU can be seen in the botton right.

Configuration followed :

End systems :

End System	IP Address	Subnet Mask	Default Gateway
PC0	192.168.1.10	255.255.255.0	192.168.1.1
PC1	192.168.1.11	255.255.255.0	192.168.1.1
PC2	192.168.2.10	255.255.255.0	192.168.2.1
PC3	192.168.2.11	255.255.255.0	192.168.2.1
PC4	192.168.3.10	255.255.255.0	192.168.3.1
PC5	192.168.3.11	255.255.255.0	192.168.3.1

Routers :

Router	Interface	IP address	Subnet Mask
Router0	FastEthernet0/0	192.168.1.1	255.255.255.0
Router0	FastEthernet1/0	10.0.4.1	255.0.0.0
Router1	GigabitEthernet 0/0	192.168.2.1	255.255.255.0
Router1	GigabitEthernet 1/0	10.0.4.2	255.0.0.0
Router1	GigabitEthernet 2/0	3.3.3.2	255.0.0.0
Router2	FastEthernet0/0	192.168.3.1	255.255.255.0
Router2	FastEthernet1/0	3.3.3.1	255.0.0.0

In the above table we can see one interface of Router1 is part of network 3(3.3.3.2)

Routing Table :

Router	Destination	Next Hop
Router0	192.168.3.0	10.0.4.2
Router0	192.168.2.0	10.0.4.2
Router1	192.168.3.0	3.3.3.1
Router1	192.168.1.0	10.0.4.1
Router2	192.168.1.0	3.3.3.2
Router2	192.168.2.0	3.3.3.2

Screenshots :