BITS Pilani, Hyderabad Campus Computer Networks

LabSheet – 9 (Week 9)

Network Emulation – Cisco Packet Tracer

Problem1: Create a topology as shown in figure 1 below.

Subnet 1 (Left subnet): A generic PC (PC3) is connected to the switch (switch4) and this swith is connected router (router3)

Subnet 2 (Right subnet): A generic PC (PC4) is connected to the switch (switch5) and this swithis connected router (router4).

The above two subnets (Subnet 1 and Subnet 2) are connected by cross link between two routers.

The objective is to send the packets from PC3 from PC4 andvice-versa.

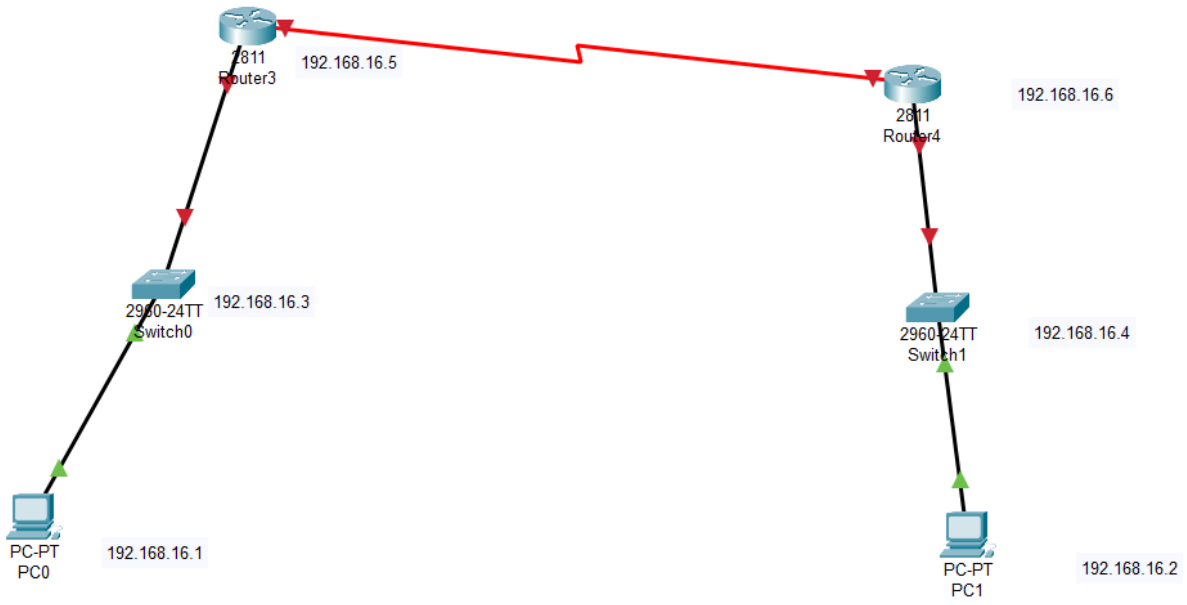

Figure 1: Topology for Subnet

Problem 2: HTTP Server. Subnet 1 (Left subnet): A generic PC (PC0) and PC1 is connected to the switch1(it block) and , A generic PC (PC2) and PC3 is connected to the switch2 (science block) and these two swithes are connected router (router0)

Subnet 2 (Right subnet): A generic PC (PC4) and PC5 is connected to the switch3 (arts block) and , A generic PC (PC6) and PC7 is connected to the switch4 (pg block) and these two swithes are connected router (router1)

The above two subnets (Subnet 1 and Subnet 2) are connected by cross link between two routers.

Scenario: In this activity, you are given the network address of 192.168.100.0/24 to subnet and provide the IP addressing for the Packet Tracer network. The connection between R0 to R1 will require an IP address for each end of the link.

The objective is to send the packets from PC3 from PC7 andvice-versa.

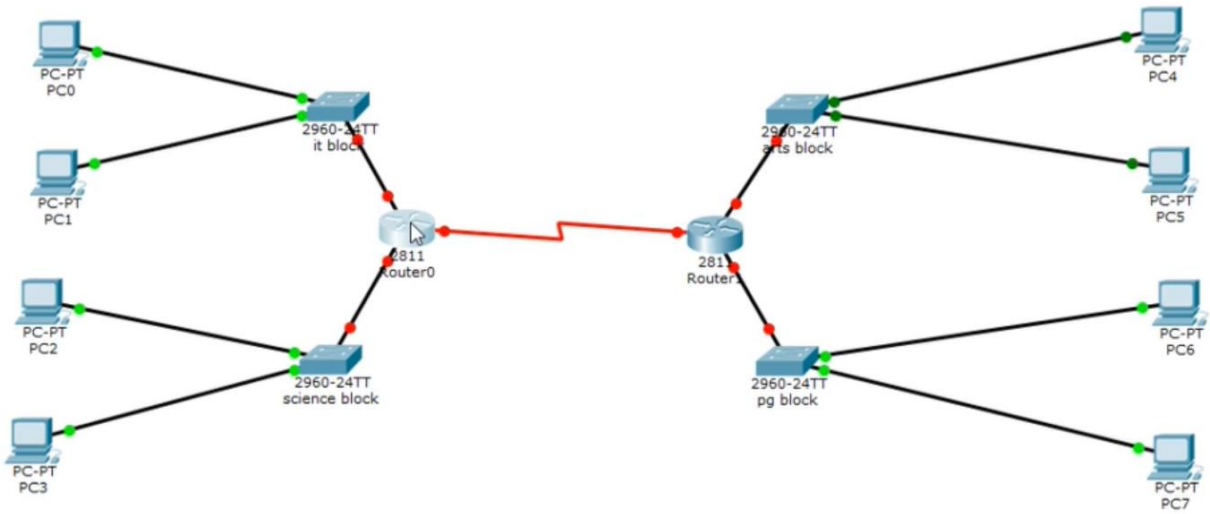

Figure 2: Topology for Subnet