

Ex NO:10a Internal networking with switches in Cisco
DATE:19.09.25 Packet tracer simulation.

In this network, a router and 2 PCs are used, connected with copper-straight through cable. After forming the network, a simple PDU is transferred from PC0 to PC1.

Procedure:

Step 1: (Configuring Router)

1. Select the router and open CLI.
2. Press enter and start configuring Router.

Router CLI:

enable

config t

interface fastEthernet 0/0

ip address 192.168.10.1 255.255.255.0

no shutdown

interface fastEthernet 0/1

ip address 192.168.20.1 255.255.255.0

no shutdown

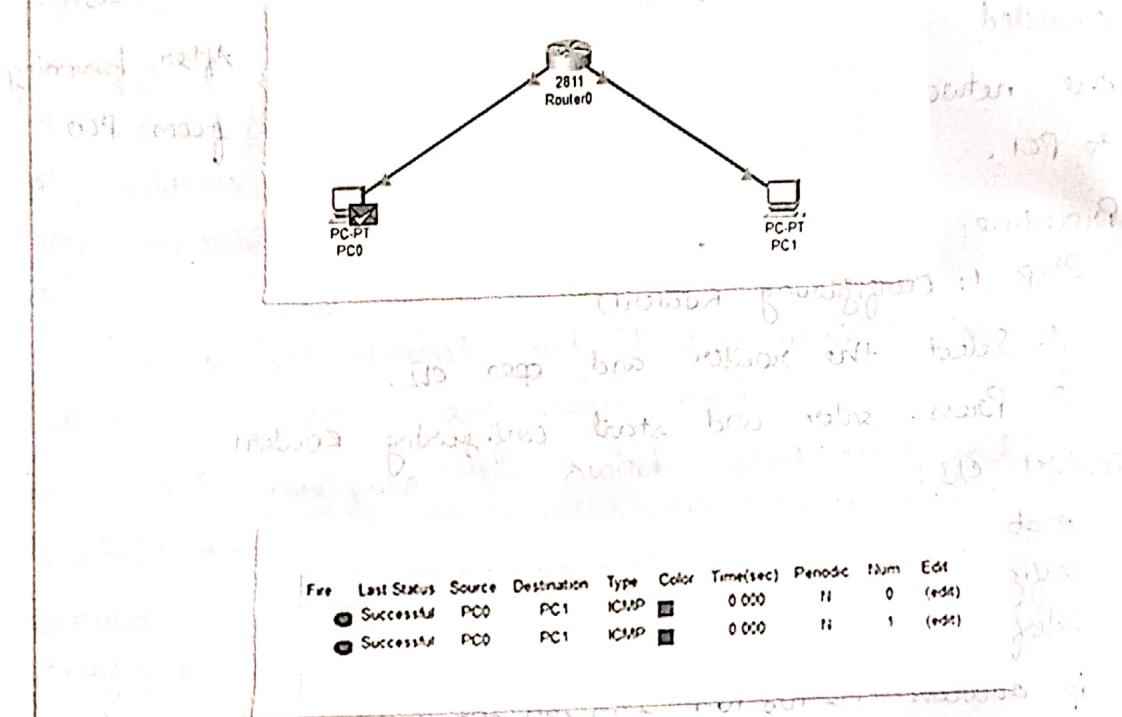
Step 2: (Configuring PC's)

1. Assign IP addresses in every PC.
2. Default gateway of PC0 is 192.168.10.1
3. Default gateway of PC1 is 192.168.20.1

Step -3 : (Connecting PC's with Router):

1. Connect FastEthernet0 port of PC0 with fastEthernet 0/0 port of Router using a copper-straight through cable.
2. Connect fastEthernet1 port of PC1 with fastEthernet 0/1 port of Router using a copper-straight through cable.

Simulation in ns-2 showing the functionality of Router



Result:

Thus the internet working with routers is done successfully.

Waqas