

LAB REPORT 2:

Title: Configuration and Data packet transfer among multiple Networks.

Statement of Problem:

To learn how to configure a network for packet transmission in Cisco packet tracer simulation software.

Hypothesis:

We have made two different networks by setting up few end devices (PCs) with a router. We have set IP address for each end devices (PCs) and done router configuration by Command Line Interface (CLI). Now we can assume that a data packet can be transferred from one PC to another PC from different network.

Materials:

Cisco Packet Tracer Software.

Procedure:

- Design the connection using Cisco Packet tracer like figure-01.

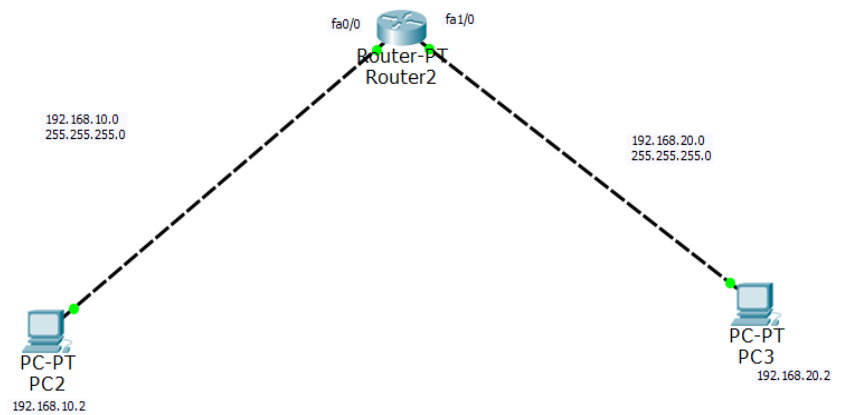


Figure - 01

- Connect a router with enough number of ports so that every PC can be connected with router.
- Connect two pc with the router. Two networks network-1, network-2 created as shown in figure-1.

PC configuration part:

- For Network-1:
 - Assume IP for Network-1: 192.168.10.0 and Subnet mask:
255.255.255.0

- Set IP for the PC1-Network1: 192.168.10.2
- Set Default Getway for PC1-Network1: 192.168.10.1
- For Network-2:
 - Assume IP for Network-2: 192.168.20.0 and Subnet mask:
255.255.255.0
 - Set IP for the PC1-Network2: 192.168.20.2
 - Set Default Getway for PC1-Network2: 192.168.20.1

Router configuration part:

- Click on the router and open CLI window. Then use these commands to configure the router.
 - Command for router enable: “en”
 - Command for configuration mode: “conf t”
 - Command for interface: “int fa0/0(port-number)”

- Command for set IP for the port: “ip address

192.168.20.1(IP address) 255.255.255.0(Subnet mask)”

- Command save the IP: “no shut”

- Command for exit from configuration mode: “exit”

Results(data):

We simulate the network by sending packet successfully(figure-02) from

- PC1-Network-1 to PC1-Network-2
- PC1-Network-2 to PC1-Network-1

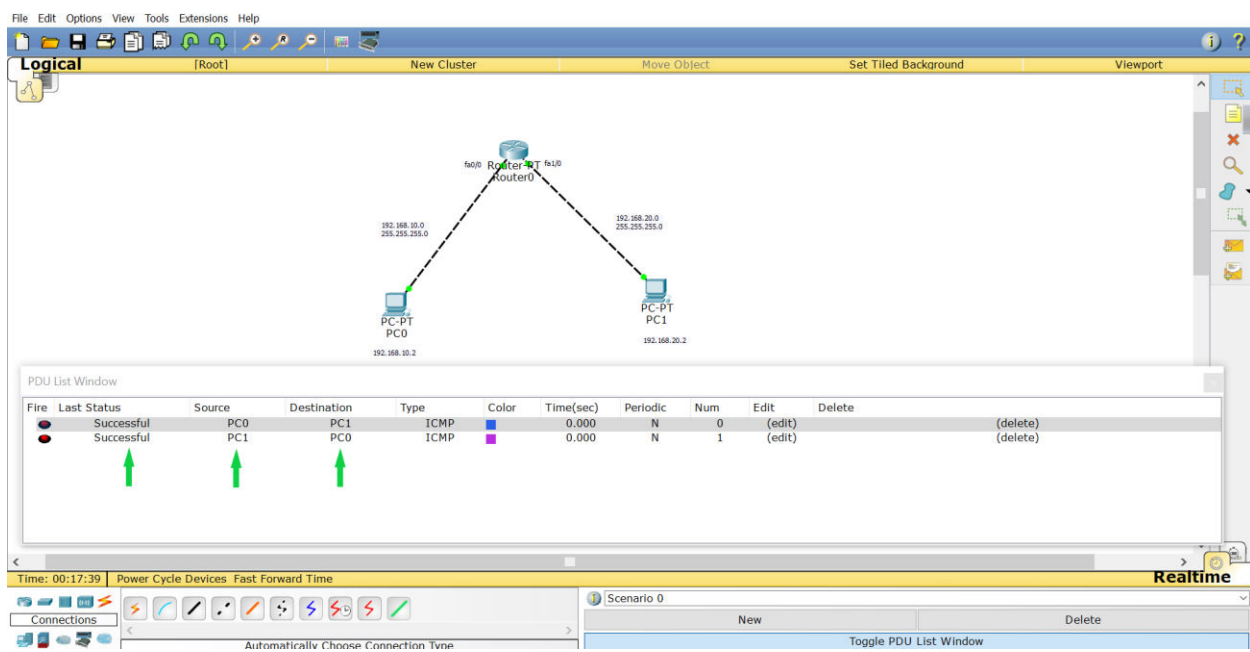


Figure-02

Conclusions: According to my hypothesis I have made a network successfully. Now I can able to make a network using cisco packet tracer and simulate the network by sending packet from one pc to another pc among different networks.