

21.9.25  
EXP: 10A

## Internetworking with Routers in CISCO PACKET TRACER SIMULATOR

Aim:- To design and configure a simple internetwork using a router.

In this network, a Router and 2 PC's are used. Computers are connected with Router using a Copper Ser through cable. After forming the network, check its connectivity using a Simple PDU Transfer from PC0 to PC1.

Procedure:-

Step - 1 Configure Router .1

1. Select the Router and open CLI
2. Press enter to start configuring Router.
3. Type enable to activate the privileged mode

Step - 2 Configuring PC's

1. assign IP addresses to every PC in the network
2. Select the PC, Config and assign ip address, default gateway, subnet mask
3. Assign the default gateway of PC0 as 192.168.10.1
4. Assign the default gateway of PC1 as 192.168.20.1

Set



Step 3 - Connecting PC with routers.

- 1) Connect fast ethernet (1) port of PC0 with fast ethernet 0/0 port of Router 1 using a copper straight through cable.
- 2) Connect fast ethernet (1) port of PC1 with fast ethernet 0/1 port of Router 1 using a copper straight-through cable.

Router Configuration Table :-

Device name	IP address fast ethernet 0/0	Subnet mask	IP address Fast ethernet 0/1	Subnet mask
Router 1	192.168.10.	255.255.255.0	192.168.20.1	255.255.255.0

PC Configuration Table :-

Device name	IP Address	Subnet mask	Gateway
PC0	192.168.10.2	255.255.255.0	192.168.10.1
PC1	192.168.20.2	255.255.255.0	192.168.20.1

Designed Network Topology :-

Simulation of Designed network Sending packet from PC0 to PC1

10  
Last State  
Success  
Success

RESULT  
Hence  
has



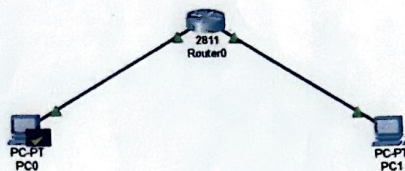
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100 for

10)a)



id	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit
0	Successful	PC0	PC1	ICMP	Green	0.000	N	0	(edit)
1	Successful	PC0	PC1	ICMP	Blue	0.000	N	1	(edit)

RESULT:-

Hence the experiment on interconnecting with routers  
has been ~~successful~~ Successfully

14/6/2