

Assignment

Network Systems Assignment 2

Question – Design and configure a network in Cisco Packet Tracer with two separate LANs, each containing six PCs connected to a switch. Connect these two LANs using a router and ensure successful communication between devices in different networks. Configure IP addresses, and default gateways.

Following are the network details;

1. Network 1 :

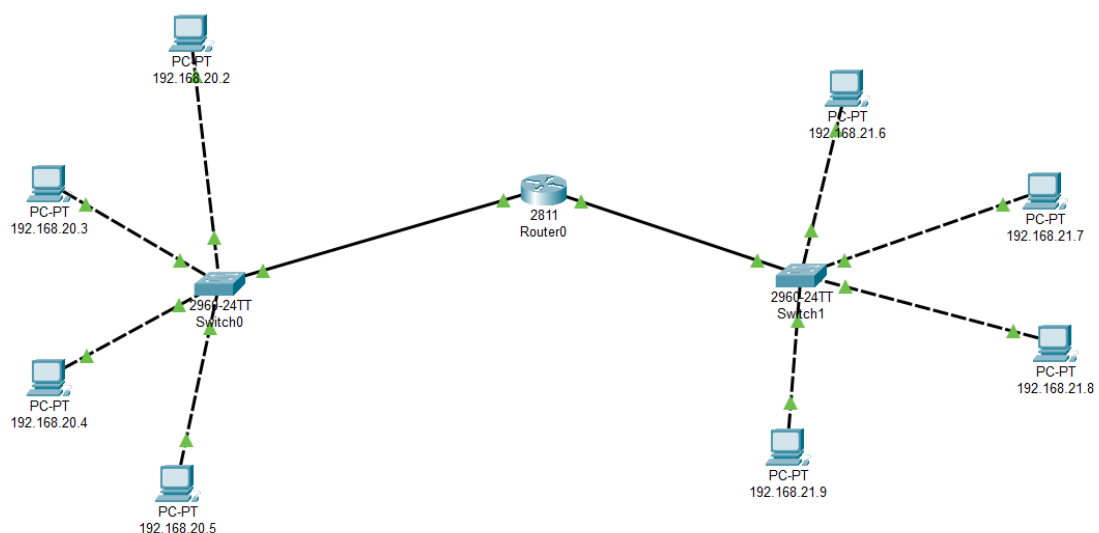
IP range: 192.168.20.1 to 192.168.20.10

2. Network 2 :

IP range: 192.168.21.1 to 192.168.21.10

Establish success connection and send messages between devices in same network, devices in different networks. Attach all screenshots (including router configuration, IP configuration, Network Structure) and description in a pdf file and submit.

Network Structure –



Event Viewer –

Event List		
Vis.	Time(sec)	Last Device
	0.000	--
	0.001	192.168.20.2
	0.002	Switch0
	0.003	Router0
	0.004	Switch1
	0.005	192.168.21.6
	0.006	Switch1
	0.007	Router0
	0.008	Switch0

Reset Simulation

☒ Constant Delay

Captured to: 0.008 s

Message ping status –

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	192.1...	192.168.21.8	ICMP		0.000	N	0	(edit)	(delete)
	Successful	192.1...	192.168.21.9	ICMP		0.000	N	1	(edit)	(delete)

Pinging 192.168.20.2 -> 192.168.21.6

192.168.20.2

PhysicalConfigDesktopProgrammingAttributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0

C:\>ping 192.168.20.5

Pinging 192.168.20.5 with 32 bytes of data:

Reply from 192.168.20.5: bytes=32 time<lms TTL=128

Reply from 192.168.20.5: bytes=32 time<lms TTL=128

Reply from 192.168.20.5: bytes=32 time<lms TTL=128

Reply from 192.168.20.5: bytes=32 time<lms TTL=128

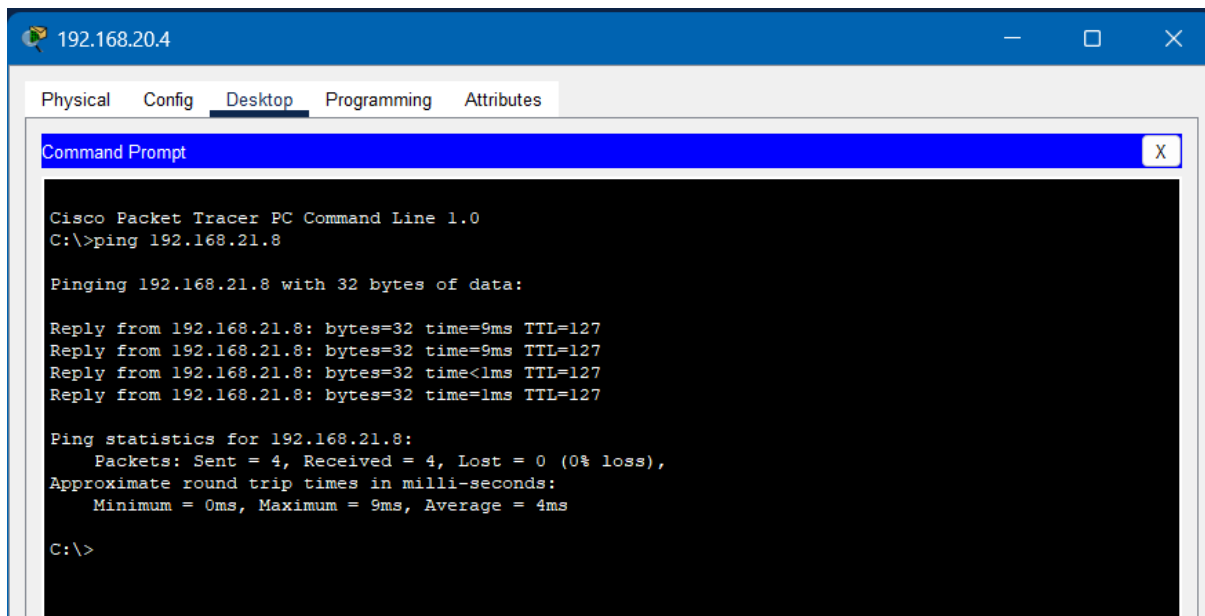
Ping statistics for 192.168.20.5:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

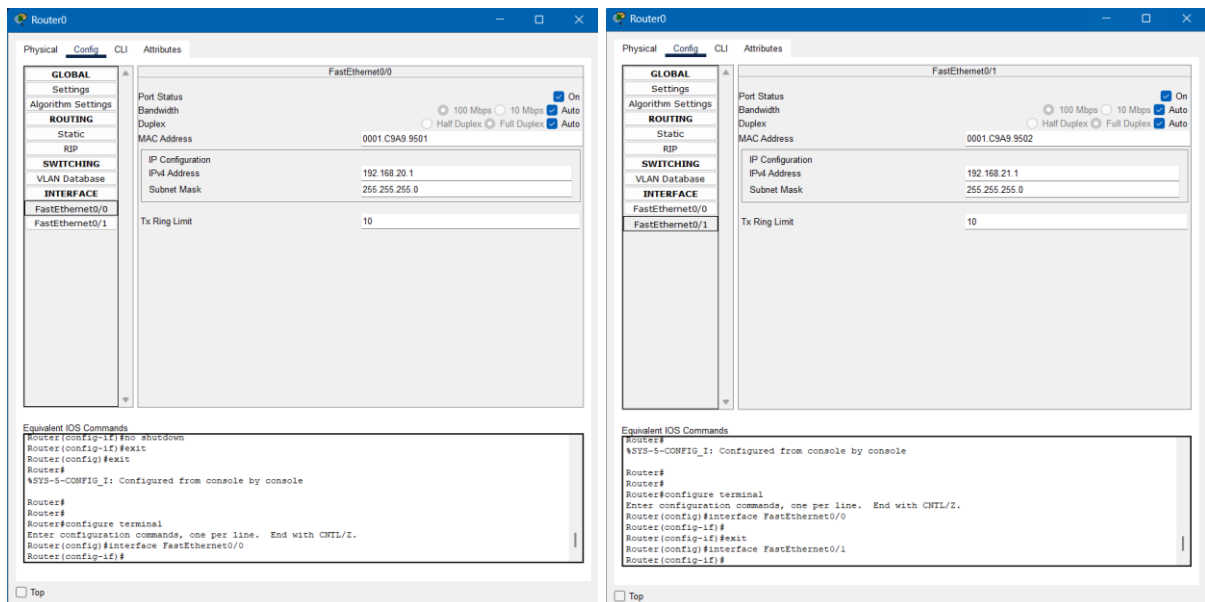
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

Pinging 192.168.20.4 -> 192.168.21.8



Router Configuration –



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