## **Computer Networks: Lab Record**

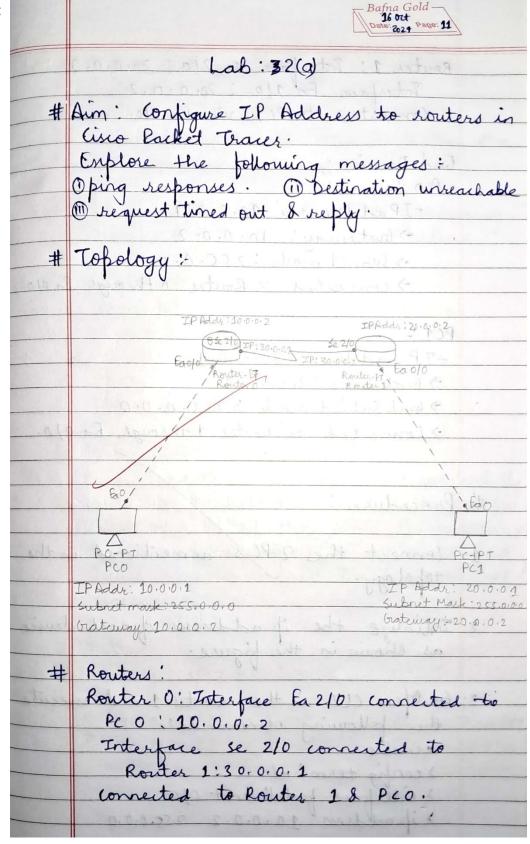
Week: 3

## **Experiment 3: Two Routers Configuration and Messages**

Configure IP address to routers in packet tracer.

Explore the following messages: ping responses, destination unreachable, request timed out, reply.

#### **Observation:**



	15 025
	Router 1: Interface Se 210: 30.0.0.2
	Total : 50 1/0 : 20: 0:0:2
	Interface Ed 210: 20.0.0.2 Connected to PCI via Ea 010.
133	Cisco Packet Brace.
	End Demies ; minuted set and find
-N. A.	PCO interior of the party of th
	-IP address = 10.0.0.1
	> Gratemay: 10.0.0.2
	> Subnet mask : 255-0.0.0
	> connected to Router of through Ea 0/0.
	Concerns
	PC1:
	-IP address: 20.0.0.1
	> orateway: 20.0.0.2
	> trad Subnet mark 1 255.0.0.0
	> Connected to Router 1 through Sa 0/0.
	the state of the s
#	Procedure:
1.	connect the 2 PCs as mentioned in the
165	tohology.
The latest	
2.	Initialize the ip addresses of each device as shown in the figure.
	as shown in the figure.
	# Routers:
7.	to Open (1) in the router 2 and execute
	the following commands:
	the following commands:
	> config terminal
	> interface faste thernet 010
	> interface fastethernet 0/0 > ip address 10.0.0.2 255.0.0.0

	Bafna Gold — Date: Page: 13
12/01/	> no shut > exit
	> exit
5 + 16 h	
3.	Repeat the steps to cornect to the other
	Repeat the steps to connect to the other Pi to Pouter.
130/50	A S MICHAEL DATE TO A STATE OF THE STATE OF
4.	Open CII again. Run the following lommands to connect the routers
	lommands to connect the routers
	together.
6+ h.	> viterface serial 2/0
radd	> ip address 30.0.0.1 250,0.0.0
ustura!	> são shut
Lucia	> exit
V	A STATE OF THE STA
2.	Repeat the same for others
	Observation:
	Two routers are connected successfully
	but the parkets are unable to trought
the sta	from one PC to the other PC of different
	router. when pinged, we encountered
	router. When pinged, we encountered issues saying request timed out or host
0.0.0.1	· unreachable.
#	output:
1.0.H.	outpid:  > show ip route:
	C 10.0.0.018 is directly connected, East ethernet do
	C 10.0.0.018 is directly connected, East themetodo C 30.0.0.018 is directly connected, Serial 210.
BALLET	
STATE OF THE PARTY OF	

Experiment 2(b) continued from 2(a): Configure défault route, static sonte # Ain: successful transmission of packets
from one of to other of different Topology: Two PCs are connected to two different vouters using copper cross once wires and those two routers are connected to each other me using seral DCE. # Procedure: 1. After successful configuration of the two souters. Open CLI of one routers and follow the commands to configure static vouting. > ip route 20.0.0.0. 255.0.0.0.0 30.0.0.2 2 open the CLI of other router. 2 ip route 10:0.0.0 255.0.0.0 30.0.0.1

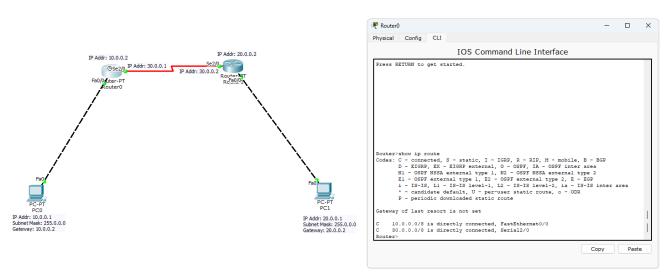


	Bafna Gold— Date: Page: 1
#	Observation 's
stran	After configuration of static routing, the two PCs of two different router networks are able to transfer transmit the parkets using the ping command.
	networks are able to transfer transmit
ite	the packets using the ping command.
#	Output :>
	? show ip route;
	C 20.0.0.018 is directly connected, East Ethernet 010.
	\$ 20.0.0.018 £ 1/0] via 30.0.0.2 C 30.0.0018 is directly connected,
3 - Ch - C	Serial 210.
	# Prese dura;
4	I Configure all the systems and so
Denth of	mater and the fell all
10.00	a papar whenter tree allowed
	in with a color

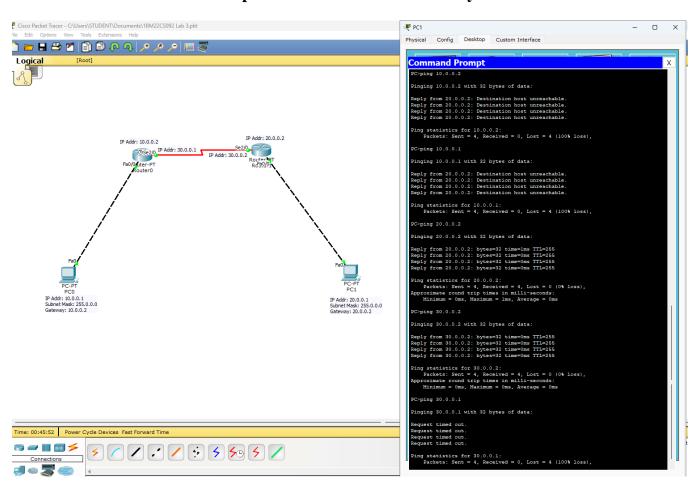
#### **Screenshots:**

### **Initial Setup**

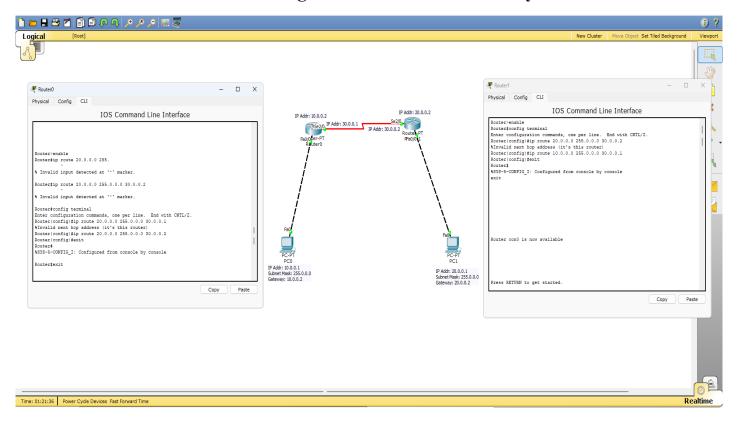




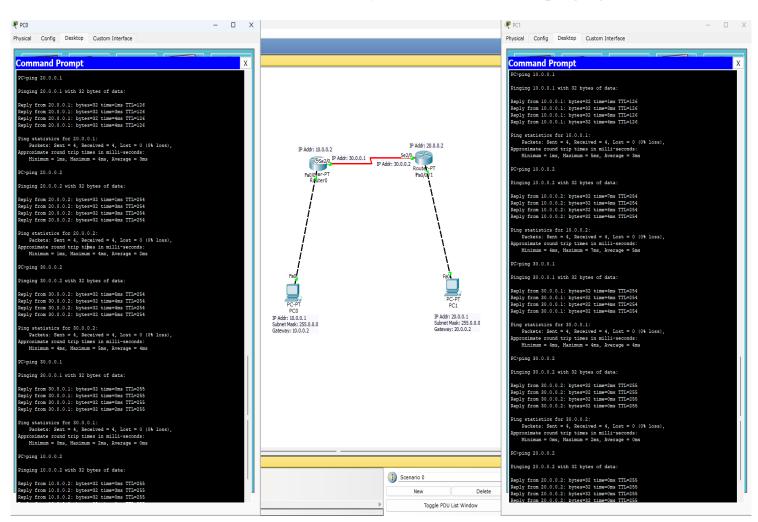
#### **Setup Done but no interconnectivity**



### **Extra Configuration for Interconnectivity**



### Successful Interconnectivity with 0% Loss while pinging



# **Output for show IP Route**

