

28/9/25  
Exp. 11

Simulate static Routing Configuration using  
Cisco Packet Tracer and RIP

Aim:- To Simulate the RIP using Cisco  
Packet Tracer.

Assign IP addresses to PC's - double click  
PC's and check desktop menu item and  
IP config. Assign IP address referring the  
above table

Assign IP address to interfaces of Router.  
Double click Router 0 and click CLI and  
press enter key to access the command  
prompt of Router 0.

Router > enable

Router # config terminal  
Enter config commands one per line  
end with CTRL/Z

Router (config) #

Interface fast Ethernet 0/0 command  
used to enter in interface mode  
its address 10.0.0.1 255.0.0.0 command  
will assign IP address to interface,  
no shutdown command will bring the  
interface up

exit command is used to return global  
configuration mode. Serial interface  
needs two additional parameters clock  
rate and bandwidth. Every serial cable  
has two ends DTE and DCE

Router > enable

Router # Configure terminal  
Enter configuration commands. One per line  
end with CTRL/Z.

Router 0  
Router 1

Router 0  
Router 1  
Router 2  
Router 3

Router 0  
Router 1  
Router 2  
Router 3

By default  
has low  
destination  
hops.  
we

Result  
RIP  
Trace

Configuration using  
RIP using Cisco

's - double click  
menu item and click  
referring the  
of Router.  
CLI and  
the Command

Command  
mode  
Command/  
interface,  
ring the

during global  
interface  
clock  
serial cable

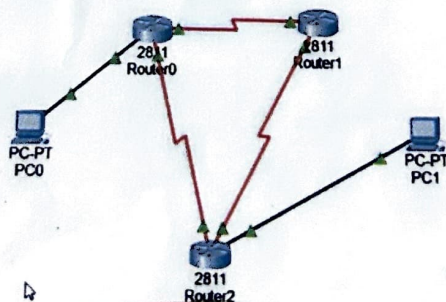
line

```
router(Config)# interface serial 0/0/0
router(Config-if)# ip address 192.168.1.250
255.255.255.252

router(Config-if)# no shutdown
router(Config-if)# exit
router(Config)# interface serial 0/0/1
router(Config-if)# ip address 192.168.1.246
255.255.255.252

router(Config-if)# clock rate 64000
router(Config-if)# bandwidth 64
router(Config-if)# no shutdown
router(Config-if)# exit
```

By default RIP will use the route that has low hop counts between source and destination. In our network route has low hops. i.e. 2 hops. So it, will be selected. we can use traceroute command to verify it.



Result :- Hence the experiment on simulating RIP using Cisco packet tracer has been executed successfully.