

PRACTICAL - II

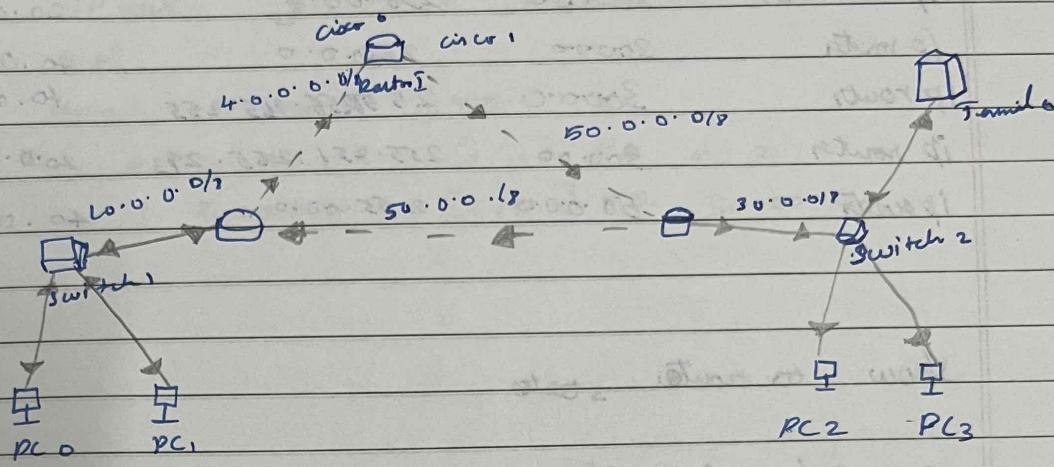
AIM:

- a) Simulate static Routing configuration using Cisco Packet Tracer

Fast

To

HCP.



ADDING ROUTES

```
# ip route 30.0.0.0 255.0.0.0 20.0.0.210
```

```
# ip route 30.0.0.0 255.0.0.0 20.0.0.220
```

Router	Available local	Networks on other routers
Router 0	10.0.0.0/8, 20.0.0.0/8, 40.0.0.0/8,	30.0.0.0/8 50.0.0.0/8
Router 1	20.0.0.0 (8/24) 30.0.0.0/8	10.0.0.0/8 40.0.0.0/8
Router 2	40.0.0.0/8 50.0.0.0/8	10.0.0.0/8 20.0.0.0/8 30.0.0.0/8

Router 0

enable

configure terminal

ip route	30.0.0.0	255.0.0.0	20.0.0.2.10
ip route	300.0.0	255.0.0.0	40.0.0.2.20
ip route	3000.0	255.255.255.255	40.0.0.2.60
ip route	300.00	255.251.255.293	20.0.0.2.20
ip route	50.0.0.0	255.0.0.0	40.0.0.2.10

show ip route states

30.0.0.1/8 is variable subnetted, 2 subnet, 2 mask.

J 300.0.0/8 [10/0] via 20.0.0.2

J 30.0.0.0/8 [10/0] via 40.0.0.2

Router 1:

enable

config terminal

IP route	10.0.0.0	255.0.0.0	20.0.0.1	10
IP route	100.0.0	255.0.0.0	40.0.0.1	20
IP route	40.0.0.0	255.0.0.0	20.0.0.1	10
IP route	40.0.0.0	255.0.0.0	50.0.0.1	20
IP route				

Route 2 :

enable

configure terminal

IP route 10.0.0.0 255.0.0.0 40.0.0.1

IP route 30.0.0.0 255.0.0.0 50.0.0.2

exit

show ip route static

8 10.0.0.0/9 [1/0] via 40.0.0.1

8 30.0.0.0/8 [1/0] via 50.0.0.2

RESULT:

thus the static configuration is executed & the output is verified successfully.

AIM:

b) Simulate RIP using Cisco Packet Tracing

Device	Interface	IP config	CW
PC0	Fast Ethernet	10.0.2.8	R0 Fa0/1
Router0	Fa0/1	10.0.1.8	PC0 Fe
Router0	So1/0/1	192.168.1.254/30	R2 So1/0/1
Router1	So1/0/0	192.168.1.209/30	R1 Fa0/0/0
Router1	50/0/0	192.168.1.250/30	R0 50/0/0
Router2	50/0/0	192.168.1.246/30	R2 50/0/0
Router2	50/0/0	192.168.1.253/30	R1 50/0/0
PC1	Fast Ethernet	20.0.2.130	R2 Fa0/0

Router 0

Configuration terminal

interface serial 0/0/0

IP address 192.168.1.299 255.255.255.255

Clockrate 64000

bandwidth

no shutdown

quit

bandwidth 64

no shutdown

exit

Router 1

enable

configure terminal

interface 0/0/0

IP address 192.168.1.250 255.255.255.256

no shutdown

exit

interface serial 0/0/1

IP address 192.168.1.251 255.255.255.252

bandwidth

no shutdown

exit.

Router 2

enable

terminal

interface fast ethernet 0/0

IP address 20.0.0.1 255.00.0

no shutdown

exit

IP address 192.168.0.1.6.1.5 255.255.255.252

no shutdown

exit

interface serial 0/0/1

no shutdown

exit

Router 0

route rip

network

10.0.0.0

network

192.168.1.252

network

192.168.1.248

Router 1

router rip

network 192.168.1.244

network 192.168.1.243

Router 2

router rip

network 20.0.0.0

network 192.168.1.255

RESULT:

Thus RIP using Cisco Packet tracer is executed & the output is verified.