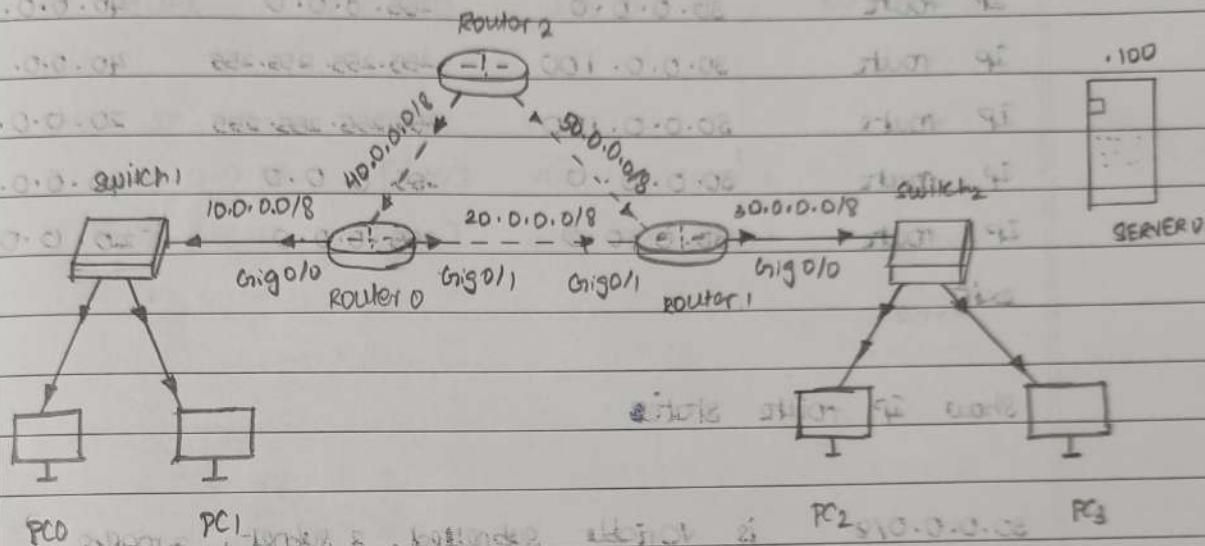


PRACTICAL - II (a)

AIM :

Simulate static routing configuration using Cisco Packet Tracer.



ADDING ROUTES :

```
# IP route 30.0.0.0 255.0.0.0 20.0.0.0
# IP route 30.0.0.0 255.0.0.0 40.0.0.0
```

ROUTER

AVAILABLE LOCAL

NETWORK - ON OTHER ROUTES

Router 0

10.0.0.0/8,

30.0.0.0/8

20.0.0.0/8,

50.0.0.0/8

40.0.0.0/8

Router 1

20.0.0.0/8

10.0.0.0/8

30.0.0.0/8

40.0.0.0/8

50.0.0.0/8

Router 2

40.0.0.0/8

10.0.0.0/8

50.0.0.0/8

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 30.0.0.0 255.0.0.0 40.0.0.2.20

ip route 30.0.0.100 255.255.255.255 40.0.0.2.10

ip route 30.0.0.100 255.255.255.255 20.0.0.2.20

ip route 30.0.0.0 255.0.0.0 40.0.0.2.10

ip route 30.0.0.0 255.0.0.0 20.0.0.2.20

exit

show ip route static

30.0.0.0/8 is variable subnetted, 2 subnet, 2 masks.

8 30.0.0.0/8 [10/0] via 20.0.0.2

8 30.0.0.0/20/32 [10/0] via 40.0.0.2

8 50.0.0.0/8 [10/0] via 40.0.0.2

ROUTER 1 :

enable

configure terminal

ip route 10.0.0.0 255.0.0.0 20.0.0.1 10

ip route 10.0.0.0 255.0.0.0 50.0.0.1 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

exit

show ip route static

8 10.0.0.0/8 [10/0] via 20.0.0.1

8 40.0.0.0/8 [10/0] via 20.0.0.1

ROUTER 2:

enable

configure terminal

ip route 10.0.0.0 255.0.0.0 140.0.0.1

ip route 30.0.0.0 255.0.0.0 50.0.0.2

exit

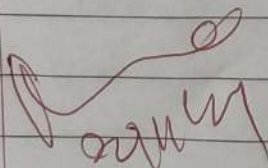
show ip route -o static

8.10.0.0/8 [1/0] via 140.0.0.1

8.30.0.0/8 [1/0] via 50.0.0.2

RESULT:

Thus static routing configuration is executed and the output is verified successfully.



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PRACTICAL - 11 (b)

ASN :

simulate RIP using CISCO packet tracer.

DEVICE	INTERFACE	IP CONFIG	CONNECTED WITH
PC0	Fast Ethernet	10.0.0.2/8	R0 Fa0/1
Router0	Fa0/1	10.0.0.1/8	PC0 FAE
Router0	S0/0/1	192.168.1.254/30	R2 S0/0/1
Router0	S0/0/0	192.168.1.249/30	R1 S0/0/0
Router1	S0/0/0	192.168.1.250/30	R0 S0/0/0
Router1	S0/0/1	192.168.1.245/30	R2 S0/0/0
Router2	S0/0/0	192.168.1.253/30	R1 S0/0/1
Router2	S0/0/1	192.168.1.246/30 20.0.0.1/30	R2 S0/0/1 PC1 FAE
Router2	Fa0/1	20.0.0.1/30	PC1 FAE
PC1	Fast Ethernet	20.0.0.2/30	R2 Fa0/1

ROUTER 0:

configure terminal

interface serial 0/0/0

IP address 192.168.1.299 255.255.255.254

clock rate 64000

bandwidth

no shutdown

exit

interface 192.168.1.254 255.255.255.254

bandwidth 64

no shutdown

exit

ROUTER 1:

enable

configure terminal

interface 0/0/0

ip address 192.168.125.0 255.255.255.256

no shutdown

exit

interface serial 0/0/1

ip address 192.168.1.24/3 255.255.255.252

clock rate 64000

bandwidth

no shutdown

exit

ROUTER 2:

enable

configure terminal

interface fast ethernet 0/0

ip address 20.0.0.1 255.0.0.0

no shutdown

exit

interface serial 0/0/0

ip address 192.168.6.1/5 255.255.255.252

no shutdown

exit

interface serial 0/0/1

ip address 192.168.1.255

no shutdown

exit

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ROUTER 0:

router rip

network 10.0.0.0

network 192.168.1.252

network 192.168.1.260

ROUTER 1:

router rip

network 192.168.1.244

network 192.168.1.248

ROUTER 2:

router rip

network 20.0.0.0

network 192.168.1.252

network 192.168.1.244

RESULT:

Thus RIP using Cisco packet tracer is successfully executed and output is verified.