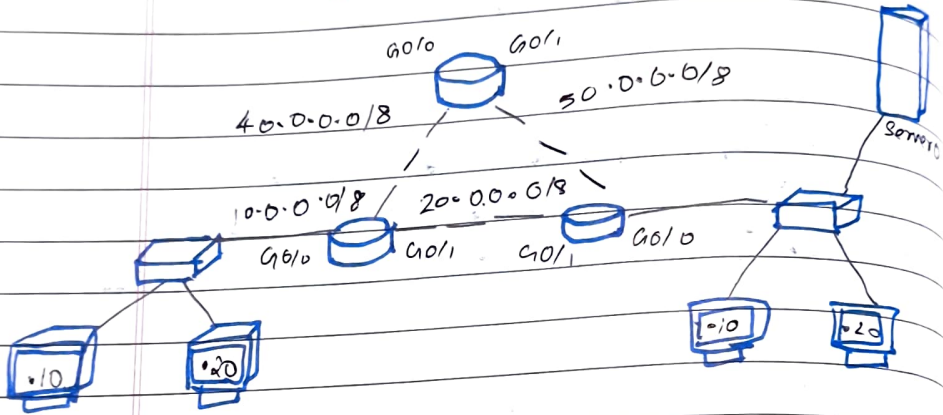


05/11/24

Experiment -11

Aim : 1) Simulate static Routing configuration using cisco packet tracer.



ADDING ROUTES

```

#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
  
```

Router	Available Local	Network on other
Router0	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
Router1	10.0.0.0/8, 30.0.0.0/8, 50.0.0.0/8	10.0.0.0/8, 40.0.0.0/8
Router2	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

Router1

enable

configure terminal

```
ip route 30.0.0.0 255.0.0.0 20.0.0.2 10
ip route 30.0.0.0 255.00.0 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 50.0.0.0 255.0.0.0 40.0.0.2 10
ip route 50.0.0.0 255.00.0 20.0.0.2 20
exit
```

Show ip route static

30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
S 30.0.0.0/8 [10/0] via 20.0.0.2
S 30.0.0.100/32 [10/0] via 40.0.0.2
S 50.0.0.0/8 [10/0] via 40.0.0.2

ROUTER1

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 40.0.0.0 255.00.0 50.0.0.1 20
exit
```

Show ip route static

S 10.0.0.0/8 [10/0] via 20.0.0.1
S 40.0.0.0/8 [10/0] via 20.0.0.1

ROUTER2

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

S 10.0.0.0/8 [1/0] via 40.0.0.1

S 30.0.0.0/8 [1/0] via 50.0.0.2

classmate
Date _____
Page _____

Aim 6) Simulate RIP using CISCO Packet Tracer

Device	Interface	IP Config	Config
PC0	Fast Ethernet	10.0.2/8	(N/A)
Router0	Ea0/1	10.0.0.1/8	R0 Fa0/1
Router0	So0/0/1	192.168.1.254/30	P0 O/E
Router0	So0/0/0	192.168.1.249/30	R2 So0/0/1
Router1	So0/0/1	192.168.1.250/30	R4 So0/0/0
Router1	So0/0/1	192.168.1.246/30	R0 So0/0/0
Router2	So0/0/0	192.168.1.245/30	R5 So0/0/0
Router2	So0/0/1	192.168.1.253/30	R4 So0/0/1
Router2	Fa0/1	20.0.0.1/30	R0 So0/0/1
PC1	Fast Ethernet	20.0.0.2/30	PC1 PC
			R2 Fa0/1

ROUTER0

configure Terminal

interface serial 0/0/0

ip address 192.168.1.249 255.255.255.254

clock rate 64000

bandwidth 64

no shutdown

exit

interface serial 0/0/1

ip address 192.168.1.254 255.255.255.254

clock rate 64000

bandwidth 64

no shutdown

exit

ROUTER 1

```
enable
configure terminal
interface 0/0/0
ip address 192.168.1.25 0 255.255.255.252
no shutdown
exit
interface serial 0/0/1
ip address 192.168.1.248 255.255.255.252
clock rate 64000
bandwidth 64
no shutdown
exit
```

ROUTER 2

```
enable
terminal
interface fastEthernet 0/0
ip address 20.0.0.1 255.0.0.0
no shutdown
exit
interface serial 0/0/0
ip address 192.168.1.245 255.255.255.252
no shutdown
exit
interface serial 0/0/1
ip address 192.168.1.253 255.255.255.252
no shutdown
exit
```

ROUTER0

```
router rip
network 10.0.0.0
network 192.168.1.252
network 192.168.1.248
```

ROUTER1

```
router rip
network 192.168.1.244
network 192.168.1.248
```

ROUTER2

```
router rip
network 20.0.0.0
network 192.168.1.252
network 192.168.1.244
```

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