

EXNO - 11 A STATE BOARD CONFLUENT  
DATE - 11/15/2024

AIM  
to stimulate static routing configuration using cisco packet tracer

### PROCEDURE

- 1) Assign PC & Router in the manner as the image below
- 2) Assign IP address for router and PCs router 0 [2811]

→ IP FA 0/0 - 192.168.1.2

FA 0/1 - 192.168.2.3

router [2811]

→ IP FA 0/0 - 192.168.1.4

FA 0/1 - 192.168.3.3

### PC0

IP - 192.168.2.7

gateway - 192.168.2.3

PC1  
IP - 192.168.2.3

gateway - 192.168.2.3

### PC2

IP - 192.168.3.5

gateway - 192.168.3.3

### PC3

IP - 192.168.3.7

gateway - 192.168.3.3

Now click on router 0

then config → static

Nelar - 192.168.3.0

subnet - 255.255.255.0

Netmask - 192.168.1.4



Ex No: 11B      ROUTER INFORMATION PROTOCOL  
Date: 8/10/2024

ADM

To simulate PPPoE using Cisco packet trace

PROCEDURE

1) Create Network as using 3 PCs & 4 routers as shown in image

2) Assign IP addresses for the PCs and router ports

PC0: IP address: 10.1.1.1  
IP - 10.1.1.1

Mac address: 00-1-1-2

PC1: IP address: 200.1.1.1  
IP - 200.1.1.1

Mac address: 200-1-1-2

Router 1: IP address: 192.168.1.1  
IP - 192.168.1.1

Router 2:

IP address: 192.168.1.2  
IP - 192.168.1.2

IP address: 192.168.1.3  
IP - 192.168.1.3

IP address: 200.1.1.2  
IP - 200.1.1.2

Router 3:

IP address: 192.168.1.4  
IP - 192.168.1.4

IP address: 172.1.1.1  
IP - 172.1.1.1

IP address: 217.1.1.1  
IP - 217.1.1.1

gig 0/0 - 217.1.1.2

0/1 - 222.2.2.12

3) Click on the route 3

→ click config → R2D

→ Enter Network 10.0.0 → ADD

→ Enter Network 20.0.0 → ADD

→ Enter Network 192.168.1.0 → ADD

Then step is now made to add the neighbouring network address route 3

4) Do same for Route 2/18/4

Router 2 → config → R2D

→ 20.0.0.0 - add

→ 200.1.1.0 → add

→ 172.1.0.0 - add

Router 1 → config → R2D

→ 172.1.0.0 - add

→ 192.168.1.0 - add

→ 217.1.1.0 - add

Router 4 → config → R2D

→ 217.1.1.0 - add

→ 222.2.2.0 - add

5) Now to display the routing table

click on route (say route 1)

→ then on ce2 type the command

# exit

# exit

# show route

~~OUTPUT~~

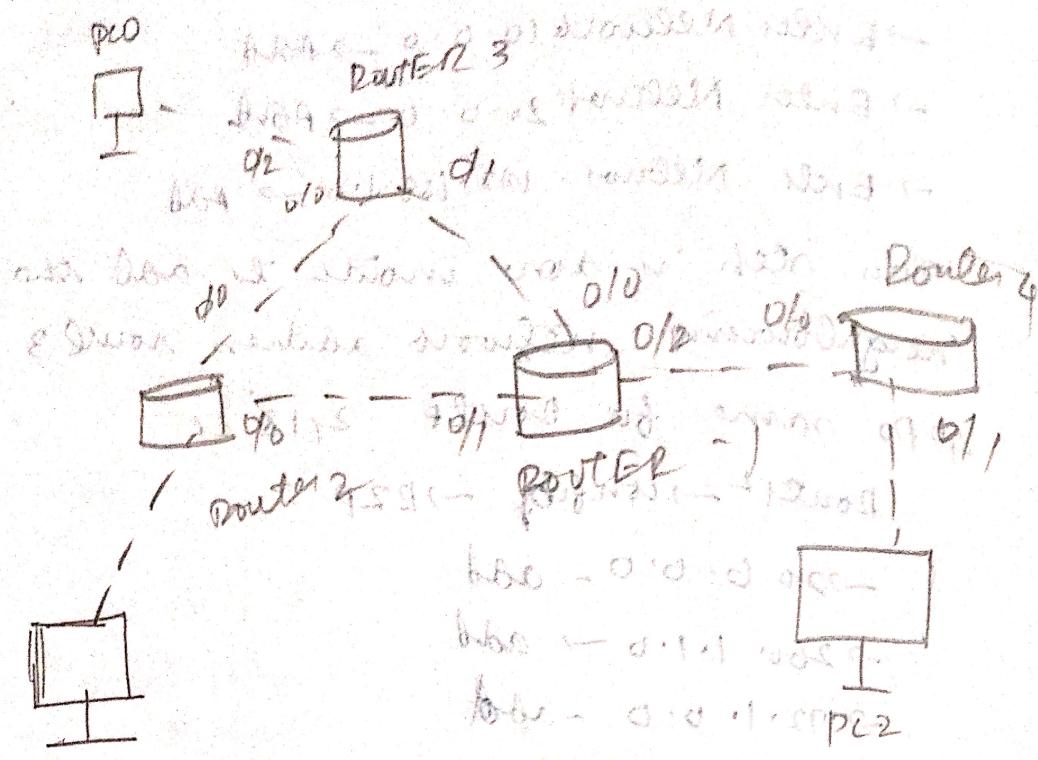
R- 10.0.0.0/8 via 192.168.1.1 gig 0/0

R- 20.0.0.0/8 via 192.168.1.1 gig 0/0

R- 192.1.0.0/16, 2 under connected routes  
2 mask

C-M2.1.00/16 is directly connected to gig 0/1  
R-M2.1.1.2/32 is directly connected to gig 0/1

### DYNAMIC ROUTING REPRESENTATION



PC1

0.0.0.0/16 -> 0.0.0.0/16

0.0.0.0/16 -> 0.0.0.0/16

0.0.0.0/16 -> 0.0.0.0/16

0.0.0.0/16 -> 0.0.0.0/16

0.0.0.0/16 -> 0.0.0.0/16

0.0.0.0/16 -> 0.0.0.0/16

0.0.0.0/16 -> 0.0.0.0/16

0.0.0.0/16 -> 0.0.0.0/16

(Network prefix) Router 1, 0.0.0.0/16

0.0.0.0/16 -> 0.0.0.0/16

### RESULT

Thus the routing information is encoded successfully and output is verified.