USN-18MIJ (SO B :

# [CN-lat 6]

[RIP] -> Routing Information Protocol. - It is a dynamic routing protocol.

- was hop count to select lest pate between

source & distination.

- woods on offlication layer of OSI model

## Route o:

interface social 2/6

1/2 address 20.0.0.1 255.0.0.0 encopsulation ff.

clade sate 64000

no shut

esit.

econter rife.

nttwork 16.0.0.0

notivous 20.0.0.0.

interface sucal 2/0

ip addres 20.0.0.2 255.0.0.0

encapulation fofo.

no shut

exit.

interfore relial 2/0.

ip addres 30.0.0.2 245.0.0.0

encapsulation php.

Jode Rate 64000.

mu shut

stit.

Route rife.

Melwood 20.0.0.0

Metwood 30.0.0.0

## Routu 2:

integace soid 2/0

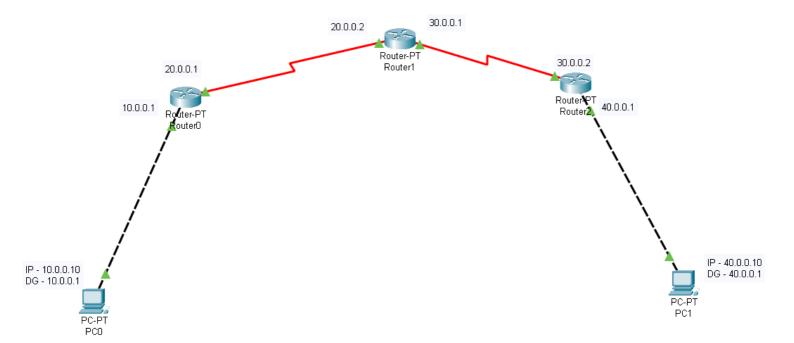
if addres 30.0.0.1 255.0.00.

incoprelation fff.

is shelt:

south sip.

ntheach 40.0.0.0.



```
C 10.0.0.0/8 is directly connected, FastEthernetU/U 20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks C 20.0.0.0/8 is directly connected, Serial2/O 20.0.0.2/32 is directly connected, Serial2/O R 30.0.0.0/8 [120/1] via 20.0.0.2, 00:00:17, Serial2/O R 40.0.0.0/8 [120/2] via 20.0.0.2, 00:00:17, Serial2/O
```

## ROUTER 0

	db
R	10.0.0.0/8 [120/1] via 20.0.0.1, 00:00:22, Serial2/0
	20.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
С	20.0.0.0/8 is directly connected, Serial2/0
С	20.0.0.1/32 is directly connected, Serial2/0
	30.0.0.0/8 is variably subnetted, 3 subnets, 2 masks
С	30.0.0.0/8 is directly connected, Serial3/0
С	30.0.0.1/32 is directly connected, Serial3/0
С	30.0.0.2/32 is directly connected, Serial3/0
R	40.0.0.0/8 [120/1] via 30.0.0.1, 00:00:13, Serial3/0

#### **ROUTER 1**

```
R 10.0.0.0/8 [120/2] via 30.0.0.2, 00:00:23, Serial2/0
R 20.0.0.0/8 [120/1] via 30.0.0.2, 00:00:23, Serial2/0
30.0.0.0/8 is variably subnetted, 2 subnets, 2 masks
C 30.0.0.0/8 is directly connected, Serial2/0
C 30.0.0.2/32 is directly connected, Serial2/0
C 40.0.0.0/8 is directly connected, FastEthernet0/0
```

### **ROUTER 2**

```
Packet Tracer PC Command Line 1.0
C:\>ping 40.0.0.10
Pinging 40.0.0.10 with 32 bytes of data:
Request timed out.
Reply from 40.0.0.10: bytes=32 time=2ms TTL=125
Reply from 40.0.0.10: bytes=32 time=2ms TTL=125
Reply from 40.0.0.10: bytes=32 time=2ms TTL=125
Ping statistics for 40.0.0.10:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 2ms, Average = 2ms
C:\>ping 40.0.0.10
Pinging 40.0.0.10 with 32 bytes of data:
Reply from 40.0.0.10: bytes=32 time=3ms TTL=125
Reply from 40.0.0.10: bytes=32 time=2ms TTL=125
Reply from 40.0.0.10: bytes=32 time=2ms TTL=125
Reply from 40.0.0.10: bytes=32 time=2ms TTL=125
                                       Ι
Ping statistics for 40.0.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 3ms, Average = 2ms
```