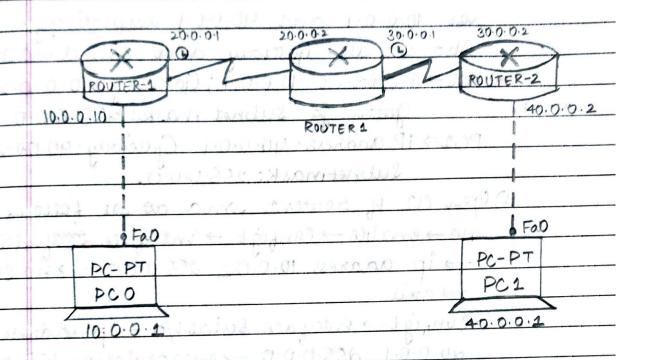


AIM:- Configuring RIP routing perotocol in Route

TOPOLOGY:



SERIAL DCE.

We can enable clocking on the DCE side to bring up the line protocol. You can tell which and of the connection is the DCE Size lay the small "clock" icon next to the prost.

RIP: - It is a protocol that trouters can

use to exchange network topology.

information. RIP uses a distance

vector algorithm to decide which

path to put a packet one go to

get to its destination.

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PROCEDURE :-

Colonia de Calabra de	PROCEDURE:
	angular of the second and the second of the second
Militaria	*) Place two PCs sound 3 nouters inthe
	workspace.
	* For both the PCs sets its IP address
	in 10.0.0.1 and 40.0.0.1 respectively.
	Also set its Gateway and Subnet mask.
	* PCD > 1P address: 10.0.0.1; Gallway: 10.0.0.2
	Gotamage - Subnet mask: 355.0.0.0
	PC1 => 1P address: 40.0.0.1 Galeway: 40.00.2
	Subnetmask: 255.0.0.0.
	DOpen CII of routers and do as follows:
	no -> enable -> configt -> interface *** fastetheret
	→ ip address 10.0.0.2 255.0.0.0 → no Shut
	-> cxit
*	configt → interface Suial 0/0 → ip address
	ab. 0.0.1 ass. b. 0.0 -> encapsulation PPP
	clock rate 64000 -> no Shut
	* Open CII of noutera and do as follow.
7 12	no → encure → config + → interface Serial 2/0 →
7	ip address 20.0.0.2 - encapsulation PPT-shown
	cait - exit
01 15	config + →interface social 3/0 → 1p address
	30.0.0.1 255.0.0.0 - encapsulation PPP
	clocknate 64000 → no Shut.
	Now the connection between Router 1 and Router 2.
	*) Open CII of nouter3 and do as follows:
	enable - config t -> interface jastethernet do
1/2/2	ip address 40.0.0.2 ass. 6.0.0 -> no shut.
	exit -> exit -> configt
	merface Serial 2/0 -> ip address 30.0.0.2
	255.0.0.0 -> encapsulation app -> no shut

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	Now the connections are all established.
	* Now specify the RIP prolocal.
	* Now open the cit of nouter 1:-
	router rip -> network 10.0.0.0 -> network
	20.0.0.0 → exit → exit.
	* Open the CLI of router 2:-
-	Joute vip > netrork 00.0.0.0 > network
-	30.0.0.0 = mexit.
	* Ping Pa to Pa.
	OBSERVATION:-
	DECIME
	RESULT:-
	PC> pring 40.0.0.1 Pringing 40.0.0.1 with 32 bytes of data:
	Request timed out
	Reply for 40.0.0.1: hyte=32 time=6ms TTL=125
	Reply for 40.0.01: byte=32 time=9ms TTL=125
	Reply for 40.0.0.1: byte= 32 time : Ims TTL=125
	pring statics for 40.0.0.0
	Pacrets: sent = 4, received = 3, lost = 1 (25% loss).
	LEARNING:-
	when RIP protocol is used we do not have
	to do static routing for all the routers i.e., we have to teach all the routers
	ie, we have to teach all the routes
	by providing with the next map
-	by providing with the next hop an dynamic routing (RIP protocol) we just have to specify the networks known by the router.
	have so specify une vermous known
-	THE POSITION.

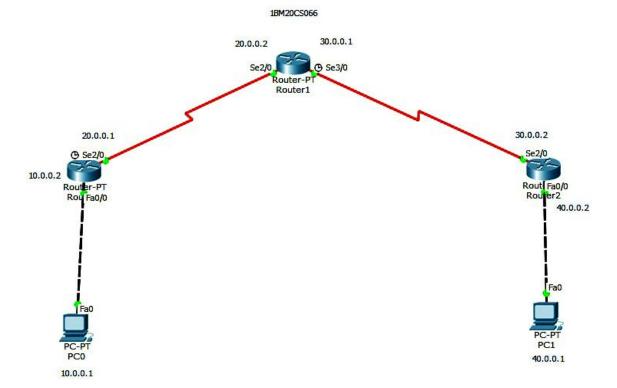
¥.

```
Continue with configuration dialog? [yes/no]: no
Press RETURN to get started!
Router>enable
Router#interface fastethernet0/0
% Invalid input detected at '^' marker.
Router#config t
Enter configuration commands, one per line. End with CNTL/2.
Router(config) #interface fastethernet0/0
Router(config-if) #ip address 10.0.0.2 255.0.00.0
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if) #exit
Router (config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
Router#configt
Translating "configt"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config) #interface serial2/0
Router(config-if) #ip address 20.0.0.1 255.0.0.0
Router(config-if) #encapsulation ppp
Router(config-if) #clock rate 64000
Router(config-if) #no shut
%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
Router(config-if) #router rip
Router(config-router) #network 10.0.0.0
Router(config-router) #network 20.0.0.0
Router (config-router) #exit
Router (config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
```

```
Press RETURN to get started!
Router>enable
Router#config t
Enter configuration commands, one per line. End with CNTL/2.
Router(config) #interface serial2/0
Router(config-if) #ip address 20.0.0.2
% Incomplete command.
Router(config-if) #ip address 20.0.0.2 255.0.0.0
Router(config-if) #encapsulation ppp
Router(config-if) #no shut
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
Router(config-if) #exit
Router (config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
Router#config t
Enter configuration commands, one per line. End with CNTL/2.
Router(config) #interface serial3/0
Router(config-if) #ip address 30.0.0.1 255.0.0.0
Router(config-if) #encapsulation ppp
Router(config-if) #clock rate 64000
Router(config-if) #no shut
%LINK-5-CHANGED: Interface Serial3/0, changed state to down
Router(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up
Router(config-if) #exit
Router (config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
Router#config t
Enter configuration commands, one per line. End with CNTL/2.
Router(config) #router rip
Router(config-router) #network 20.0.0.0
Router(config-router) #network 30.0.0.0
Router(config-router) #exit
Router (config) #exit
Router#
%SYS-5-CONFIG I: Configured from console by console
```

Continue with configuration dialog? [yes/no]: no

```
Continue with configuration dialog? [yes/no]: no
Press RETURN to get started!
 Router>enable
 Router#config t
 Enter configuration commands, one per line. End with CNTL/Z.
 Router(config) #interface fastethernet0/0
 Router(config-if) ip address 40.0.0.2 255.0.0.0
 Router(config-if) #no shut
 Router(config-if)#
 $LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
 $LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router (config-if) #exit
Router (config) #exit
Router#
$SYS-5-CONFIG I: Configured from console by console
Router#config t
Enter configuration commands, one per line. End with CNTL/2.
Router(config) #interface serial2/0
Router(config-if) #ip address 30.0.0.2 255.0.0.0
Router(config-if) #encapsulation ppp
Router(config-if) #no shut'
% Invalid input detected at '^' marker.
Router(config-if) #no shut
Router (config-if) #
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
Router (config-if) #exit
Router (config) #exit
Router#
&SYS-5-CONFIG I: Configured from console by console
Enter configuration commands, one per line. End with CNTL/Z.
Router (config) frouter rip
Router(config-router) #network 30.0.0.0
Router (config-router) #network 40.0.0.0
Router (config-router) fexit
Pouter (config) #
```





Physical Config

g Desktop

Custom Interface





```
Packet Tracer PC Command Line 1.0
PC>ping 40.0.0.1

Pinging 40.0.0.1 with 32 bytes of data:

Request timed out.

Reply from 40.0.0.1: bytes=32 time=6ms TTL=125
Reply from 40.0.0.1: bytes=32 time=9ms TTL=125
Reply from 40.0.0.1: bytes=32 time=7ms TTL=125

Ping statistics for 40.0.0.1:

Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:

Minimum = 6ms, Maximum = 9ms, Average = 7ms

PC>
```