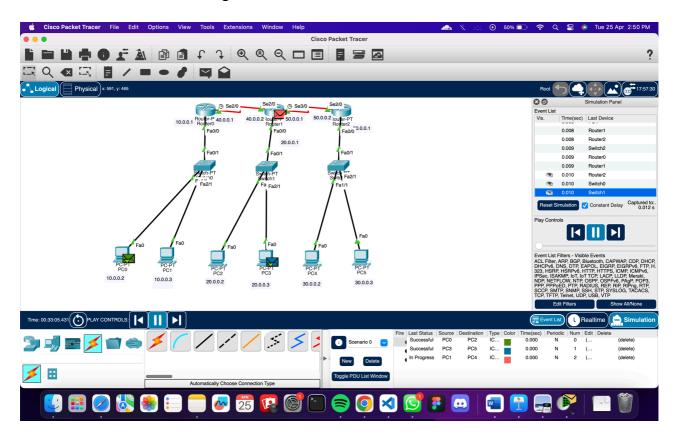
RIMJHIM MITTAL 102103430 LAB EVAL-2 25 APRIL 2023

Design a network using RIP protocol

Objective: Configure a Routing Internet Protocol (RIP).

- 1. Create a topology as shown in the figure.
- 2. Configure all the routers.
- 3. Define loop back interface for each router manually.
- 3. Implement RIP protocols in the router to configure the network.
- 4. check connectivity using ping command and verify the network and also show the route of at

least one router using command and attach its screenshots also.



Commands:

Router>enable

Router#

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface FastEthernet0/0

Router(config-if)#ip address 10.0.0.1 255.0.0.0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial2/0

Router(config-if)#ip address 40.0.0.1 255.0.0.0

Router(config-if)#

Router(config-if)#

Router(config-if)#

Router(config-if)#exit

Router(config)#interface FastEthernet0/0

Router(config-if)#no shutdown

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)#interface FastEthernet1/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface Serial2/0

Router(config-if)#no shutdown

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(config-if)#exit

Router(config)#router rip

Router(config-router)#network 10.0.0.0

Router(config-router)#

Router(config-router)#

Router(config-router)#end

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#router rip

Router(config-router)#

%SYS-5-CONFIG_I: Configured from console by console

network 40.0.0.0

Router(config-router)#

Router(config-router)#

Router(config-router)#end

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#router rip

Router(config-router)#

%SYS-5-CONFIG_I: Configured from console by console

Router(config-router)#

Router(config-router)#end

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#router rip

Router(config-router)#

Router(config-router)#end

Router#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#

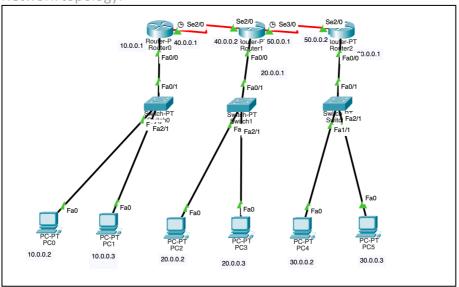
Router(config)#

%SYS-5-CONFIG_I: Configured from console by console

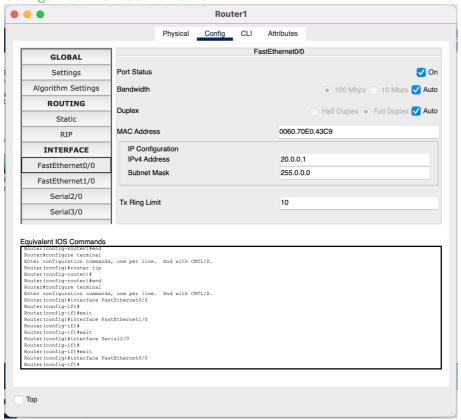
%SYS-5-CONFIG I: Configured from console by console

Router(config)#

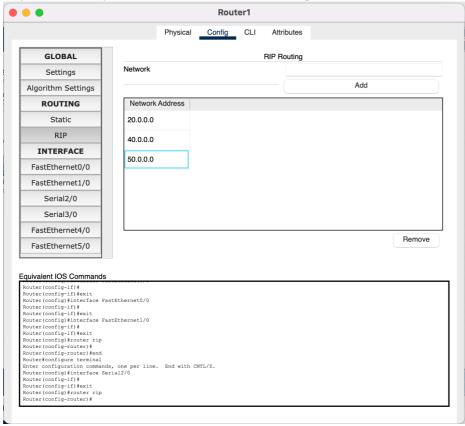
Network topology:



Configuration for second Router:



Implement RIP protocols in the router to configure the network.



Checking connectivity using ping command:

