

Experiment - 6

ROUTING INFORMATION PROTOCOL (Version 2)

Aim:

To configure RIPv2 routing between 2 routers.

PROCEDURE:

- ① Take 2 2811 routers, 2 pt switches and 2 PC's.
- ② Go to routers and then install WIC-IT port.
- ③ Now connect routers using serial cable (serial 0/1/0) and others using straight wire cables.
- ④ Type the following CLI commands in both routers written below.
- ⑤ Assign the following IP addresses to PC's.

PC0:-

IP 192.168.10.2

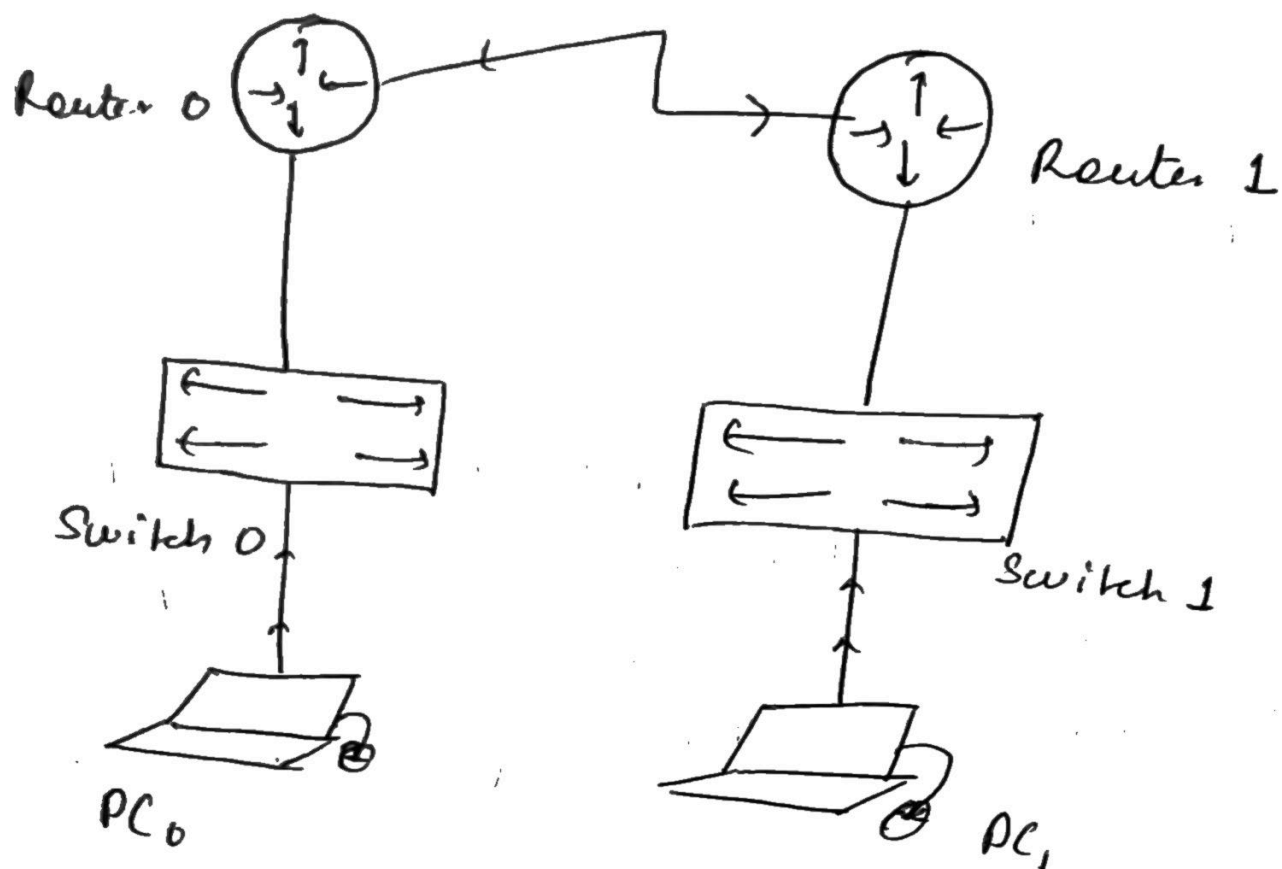
gateway - 192.168.10.1

PC1:-

IP 172.50.0.2

gateway - 172.50.0.1

Diagram:



CLI Commands

Left router:

no

enable

config terminal

interface serial 0/1/0

ip address 10.0.0.1 255.255.255.252

no shut down

interface fast ethernet 0/0.

```
# ip address 192.168.10.1 255.255.255.192
# no shutdown
# exit
# exit
# configure terminal
# router rip
# version 2
# network 10.0.0.0
# network 192.168.10.0
# exit
# exit
```

Right Router.

```
no
> enable
# configure terminal
# interface serial 0/1/0.
# ip address 10.0.0.2 255.255.255.252
# no shutdown
# interface fastethernet 0/0.
# ip address 172.50.0.1 255.255.255.240
# no shutdown
# exit
```

configure terminal

enable rip

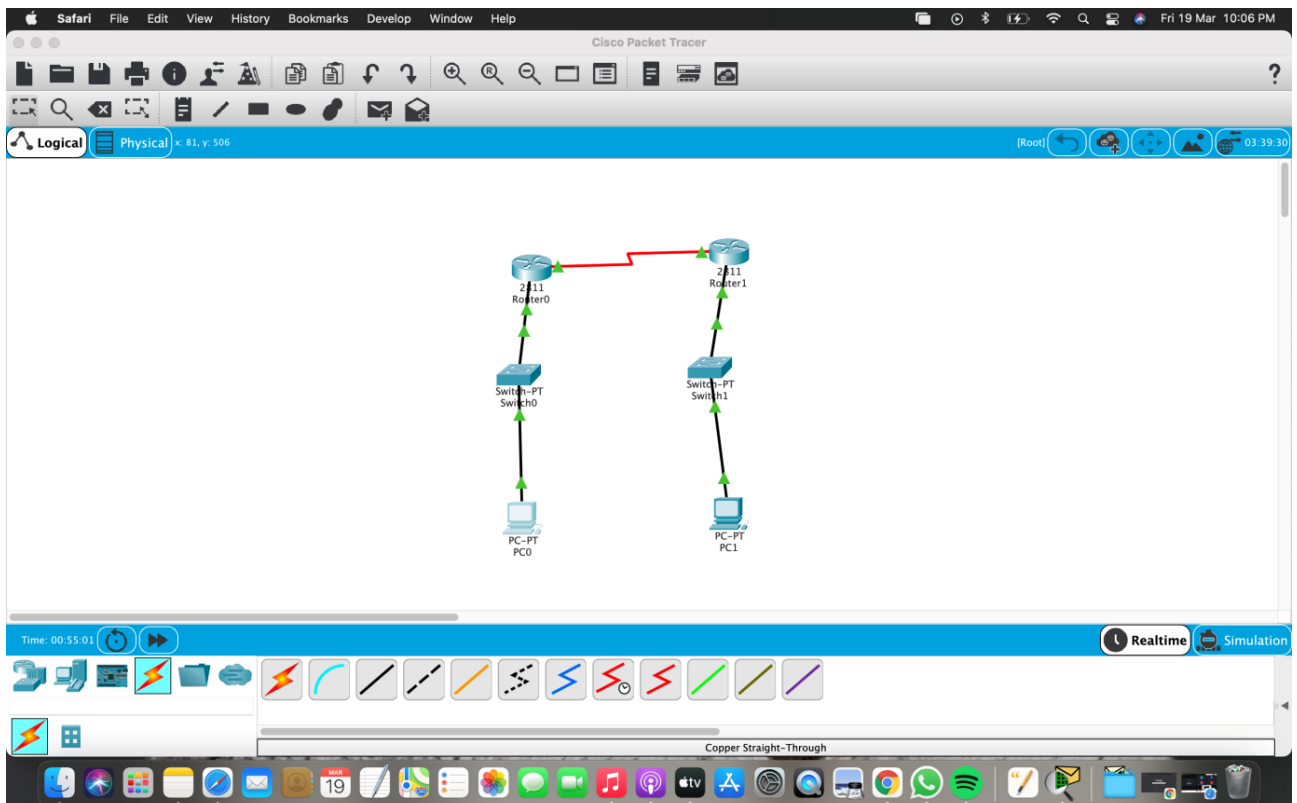
version 2

network 10.0.0.0

network 172.56.0.0

exit

exit



IOS Command Line Interface

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A summary of U.S. laws governing Cisco cryptographic products may be found at: <http://www.cisco.com/wl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to export@cisco.com.

Cisco 2811 (MPC8440) processor (revision 0a200) with 60416K/5120K bytes of memory
Processor board ID JAD0310HMT (4292941495)
M840 processor: part number 0, mask 49
2 FastEthernet/IEEE 802.3 interface(s)
1 low-speed serial(sync/async) network interface(s)
238K bytes of non-volatile configuration memory.
4271K bytes of ATA CompactFlash (Read/Write)

Cisco IOS Software, 2800 Software (C2800NM-ADVIPSERVICESK9-M), Version 12.4(15)T1, RELEASE SOFTWARE (fc2)
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Compiled Wed 18-Jul-07 06:21 by pt_rel_team

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router#enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface serial 0/1/0
Router(config-if)#ip address 10.0.0.1
% Incomplete command.
Router(config-if)#ip address 10.0.0.1 255.255.255.252
Router(config-if)#no shutdown
Router(config-if)#
ALINK-5-CHANGED: Interface Serial0/1/0, changed state to down
Router(config-if)#interface FastEthernet 0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.192
Router(config-if)#no shutdown
Router(config-if)#
ALINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
ALINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)#exit
Router(config)#exit
Router#
VTY2-5-CFGID_1: Configured from console by console

Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router rip
Router(config-router)#version 2
% Invalid input detected at "" marker.
Router(config-router)#version 2
Router(config-router)#network 10.0.0.0
Router(config-router)#network 192.168.10.0
Router(config-router)#exit
Router(config)#exit
Router#
VTY2-5-CFGID_1: Configured from console by console

Command+F6 to exit CLI focus

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IOS Command Line Interface

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Router(config-if)#ip address 10.0.0.2 255.255.255.252
Router(config-if)#no shutdown
Router(config-if)#
ALINK-5-CHANGED: Interface Serial0/1/0, changed state to up
ALINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up
Router(config-if)#interface FastEthernet 0/0
Router(config-if)#ip address 172.50.0.1 255.255.255.240
Router(config-if)#no shutdown
Router(config-if)#
ALINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
ALINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)#exit
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