# Department of Information and Communication Engineering Pabna University of Science and Technology

B.Sc. (Engineering)  $4^{th}$  Year  $1^{st}$  Semester Examination -2023 Session: 2019-2020

Course ID: ICE-4102

Course Title: Data Communication and Networking Sessional

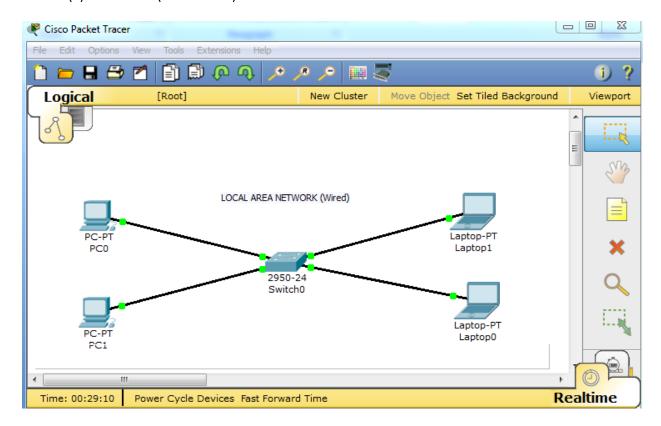
# **Laboratory Problem List**

Exp. No.	Problem Description	Page No.
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6.	Configure Open Shortest Path First (OSPF) Routing Protocol	
7.	Configure Enhanced Interior Gateway Routing Protocol (EIGRP)	
8.	Configure Border Gateway Protocol (BGP)	

Name of the Experiment: Configure Local Area Network (Wired)

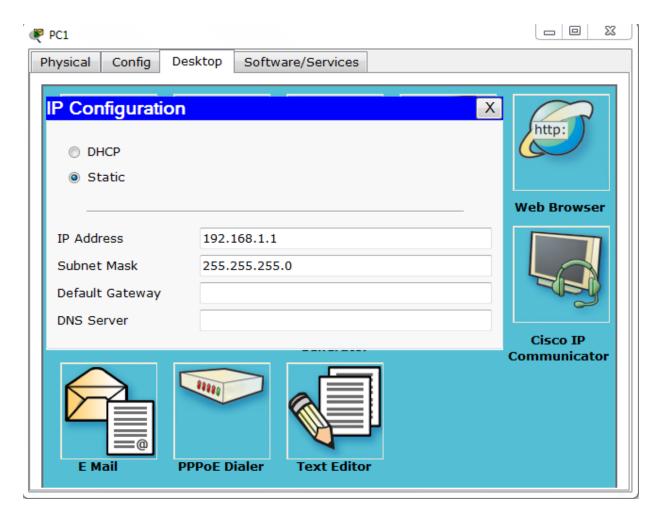
# **Required Component:**

- (1). Switch
- (2). UTP Cable (Straight Through)
- (3). End Device(Desktop, Laptop etc)
- (4). IP Address (192.168.1.0)



#### **#Procedure:**

- (1). Drag and Drop a switch on CISCO Packet Tracer interface.
- (2). Take some end device which supports NIC Card with RJ45 connector.
- (3). Choose Copper "Straight Through" UTP Cable for connect ion.
- (4). Click on switch and select the specific port no for new connection.
- (5). Repeat procedure (4) as much your end device remain connection less.
- (6). Double click on an end device and you can see this interface is by default on "Physical" tab.
- (7). Select Desktop tab and click on "IP Configuration"



- (8). Put IP Address and Click on submit section Subnet Mask will take automatically.
- (9). Just close the section.
- (10). Put IP Address on all the remaining end device.

#### **#Simulation Process:**

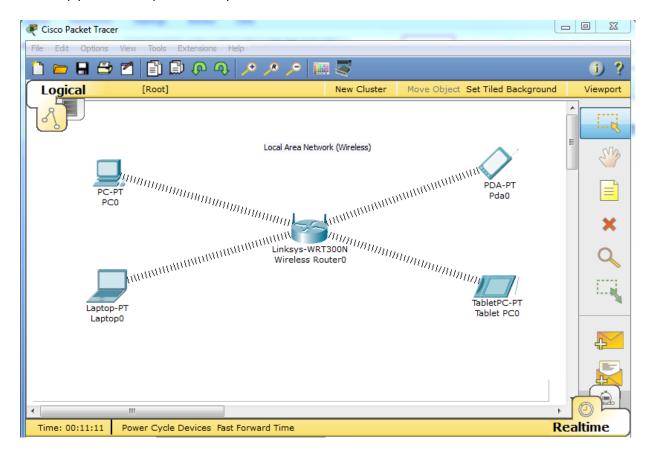
- (#) first way:
- (1). Select a packet from right side bar. Mouse pointer will change with packet symbol.
- (2). Select first a PC and then select another PC with packet symbol pointer.
- (3). It implies that a packet will flow from first device to second device.
- (4). Then you can see successful notification right side bottom section.
- (#). Second way:
- (5). Double click on PC, select "Desktop" tab, Click on "Command Prompt"
- (6). for example this pc with 192.168.1.1 and it will ping 192.168.1.2
- (7). write down "ping 192.168.1.2" press enter.
- (8). if your physical and logical connection is ok then it will say that...

Packet Send=4 Packet Received=4 Packet Lost=0%

Name of the Experiment: Configure Local Area Network (Wireless)

### **Required Component:**

- (1) Router (Linksys-WRT300N)
- (2) End Device (Desktop, Laptop, TabletPC, PDAetc)
- (3) IP Address (192.168.1.0)

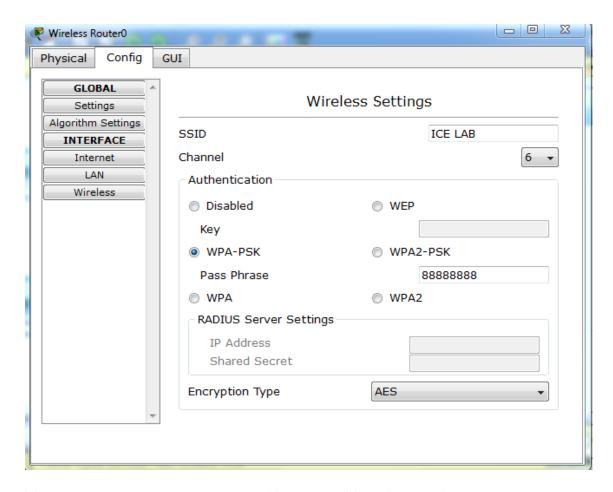


#### **#Procedure:**

(1). Drag and Drop a wireless router some device which support wireless communication on CISCO Packet Tracer interface.

### (#). For Desktop PC

- (2). Double click on PC-PT then by default "Physical" tab. first power off your pc. We need to add Linksys-WMP300N Module on this pc.
- (3). Replace existing module with our "Linksys-WMP300N" module.
- (4). power on your device.
- (#). For laptop same procedure will apply. Now desktop and laptop are ready to communicate over wireless media.
- (#). Router configuration:
- (5). Double Click and go to "Config" tab. Then select wireless.
- (6). now give a name to your access point (SSID)
- (7). Select an Authentication type. By default it will Disabled we will check out "WPA-PSK" and set password 88888888 and colse it.



- (8). double click on desktop pc and open "PC Wireless" from "Desktop" tab.
- (9). click on "Connect" tab by default it will link information. Press "Refresh" button.
- (10). Then we will see an access point and press "Connect" button.
- (11). put your password of network on "Pre Shared key" and then connect. Same on Laptop (#) Config for PDA
- (12). Double click on it and then select "Config" tab and also "Wireless" from left bottom.
- (13). put your Access point name (SSID) and password "WPA-PSK" and close it. Same for Tablet.

## **#Simulation Process:**

#### (#) first way:

- (1). Select a packet from right side bar. Mouse pointer will change with packet symbol.
- (2). Select first a PC and then select another PC with packet symbol pointer.
- (3). It implies that a packet will flow from first device to second device.
- (4). Then you can see successful notification right side bottom section.

#### (#). Second way:

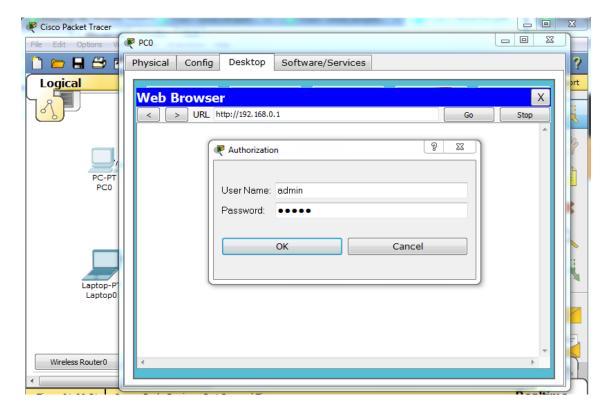
- (5). Double click on PC, select "Desktop" tab, Click on "Command Prompt"
- (6). for example this pc with 192.168.1.1 and it will ping 192.168.1.2
- (7). write down "ping 192.168.1.2" press enter.
- (8). if your physical and logical connection is ok then it will say that...

Packet Send=4 Packet Received=4 Packet Lost=0%

#### (#). Third way: access router control panel through end device

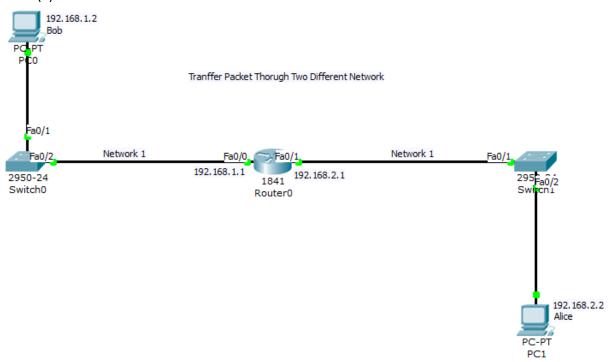
(9) Double click on desktop or laptop then select "Web Browser" from "Desktop" tab

- (10). write down router ip address on browser address bar and press inter.
- (11). A command prompt will appear for authentication give username and password admin.
- (12). If everything is ok then you will allow to access on router.



Name of the Experiment: Transfer packets through two different network Required Component:

- (1). Switch
- (2). UTP Cable (Straight Through)
- (3). End Device (Desktop, Laptop etc)
- (4). IP Address (192.168.1.0, 192.168.2.0)
- (5). Router



#### #Procedure:

- (1). Drag and Drop two switch one router and 2 end device
- (2). Select cable and connect two switch through router and then end device will connected with switch.
- (3). Double click on router, here this router by default two interface fa 0/0 and fa 0/1. those two interface are connected two different switch also two different network.
- (4). Click on CLI type no on the text edit option.
- (5). If you press yes then router will ask several question for his system maintains but all of those are not usable to us. so we just type no.
- (6). Router stay normally three stages. one is privilege mode then global config and Finlay specific configuration
- (7). Now we are in privilege mode to promote global config type enable and press enter then you can see it's router symbol will change
- (8). we are now global configuration mode so we need to access specific interface and configure it.
- (9). just write down "interface fa 0/0" this is for interface 0/0 of router. Then it need to add ip address so that just type e.g "ip address 192.168.1.1" then put subnet musk 255.255.255.0
- (10). By default every interface of Cisco device down state. So we need it to up. just write down

"no shut" command

- (11). go back to previlege mode by "exit" command.
- (12). finally write down "wr" to save configuration
- (13). we just configured only one interface. we need another one of different network with different ip address.
- (14). After configure the router we need to mention ip address of each end device.

#### **#CLI Procedure:**

Continue with configuration dialog? [yes/no]: no Press RETURN to get started!

Router>enable

Router#configure terminal

Router(config)#interface fastEthernet 0/0

Router(config-if)#ip address 192.168.1.1 255.255.255.0

Router(config-if)#no shutdown

%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 fastEthernet 0/1

Router(config-if)#ip address 192.168.2.1 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

Router(config-if)#exit

Router(config)#exit

Router#

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

Router#wr

Building configuration...

[OK]

Router#

#### **#Simulation Process:**

#### (#) first way:

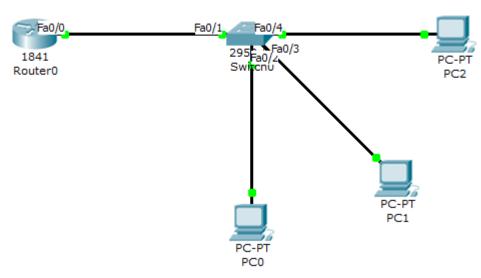
- (1). Select a packet from right side bar. Mouse pointer will change with packet symbol.
- (2). Select first a PC and then select another PC with packet symbol pointer.
- (3). It implies that a packet will flow from first device to second device.
- (4). Then you can see successful notification right side bottom section.

Name of the Experiment: Dynamic IP through DHCP

## **Required Component:**

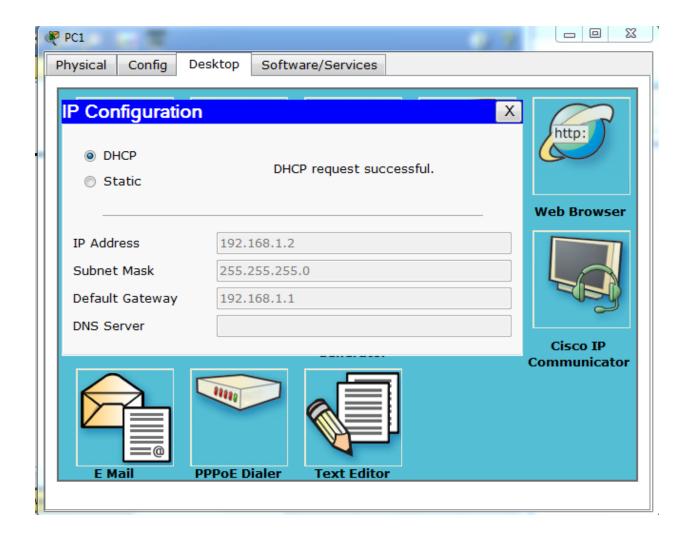
- (1). Switch
- (2). UTP Cable (Straight Through)
- (3). End Device (Desktop, Laptop etc)
- (4). IP Address (192.168.1.0)
- (5). Router

#### Dyanamic IP Through DHCP



#### **#Procedure:**

- (1). Drag and Drop one switch one router and 3 or more end device
- (2). Connect them UTP Straight Through Cable
- (3). Double click on router and then click on CLI Mode
- (4). enter privilege then global configuration mode.
- (5). Access an interface such as fa 0/0
- (6). Assign ip and subnet musk then "no shut" to up this state.
- (7). exit from here to global configuration mode
- (8). write down the command "ipdhcp pool myPoleName"
- (9). Mention the network and then router default ip
- (10). exit and save change.
- (11) double click on select "Desktop" and click on "IP configuration"
- (12). click on DHCP to send a request for ip



#### **#CLI Procedure:**

Continue with 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 fastEthernet 0/0

Router(config-if)#ip address 192.168.1.1 255.255.255.0

Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

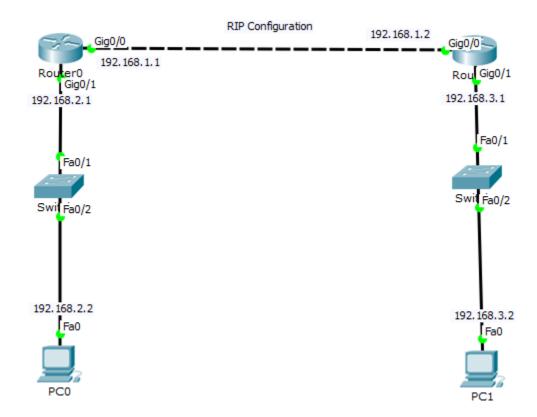
Router(config-if)#exit
Router(config)#ip dhcp pool ice
Router(dhcp-config)#network 192.168.1.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.1
Router(dhcp-config)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG\_I: Configured from console by console

Router#wr Building configuration... [OK] Router#

Name of the Experiment:Configure Routing Information Protocol (RIP)

# **Required Component:**

- (1). Switch
- (2). UTP Cable (Straight Through)
- (3). Ethernet crossover cable
- (4). End Device (Desktop, Laptop etc)
- (5). Router



#### **#Procedure:**

- (1). Drag and Drop Routers, Switches and PCs.
- (2). Select cable and make sure a proper connections.
- (3). Double click on router.
- (4). Click on CLI Tab.
- (5). First assign IP Address of on interface
- (6). Assign RIP command.
- (7). Mention RIP version
- (8). Finally save this configuration

# # IP Configuration Router0:

Router>en

Router#conf t

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

Router(config)#int gig 0/0

Router(config-if)#ip add 192.168.1.1 255.255.255.0 Router(config-if)#no shut

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

Router(config-if)#exit
Router(config)#int gig 0/1
Router(config-if)#ip add 192.168.2.1 255.255.255.0
Router(config-if)#no shut

## # IP Configuration Router1:

Router>en

Router#conf t

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

Router(config)#int gig 0/0

Router(config-if)#ip add 192.168.1.2 255.255.255.0

Router(config-if)#no shut

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

Router(config-if)#exit Router(config)#int gig 0/1

Router(config-if)#ip add 192.168.3.1 255.255.255.0

Router(config-if)#no shut

### **#RIP Configuration Router0:**

Router#conf t

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

Router(config)#router RIP

Router(config-router)#version 2

Router(config-router)#net 192.168.1.0

Router(config-router)#net 192.168.2.0

Router(config-router)#exit

Router(config)#exit

Router#

Router#wr

Building configuration...

[OK]

# # RIP Configuration Router1:

Router#conf t

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

Router(config)#router RIP

Router(config-router)#version 2

Router(config-router)#net 192.168.1.0 Router(config-router)#net 192.168.3.0 Router(config-router)#exit Router(config)#exit Router# Router#wr Building configuration...

## **#Simulation Process: (Router0)**

Router#

Router#showip route

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

\* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

### Gateway of last resort is not set

192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks

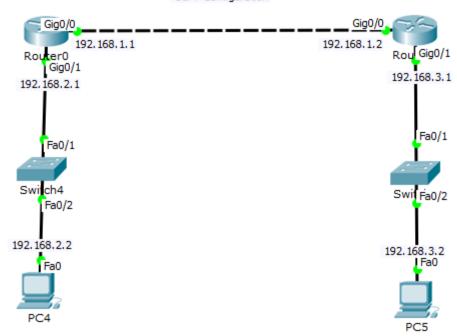
- C 192.168.1.0/24 is directly connected, GigabitEthernet0/0
- L 192.168.1.2/32 is directly connected, GigabitEthernet0/0
- R 192.168.2.0/24 [110/2] via 192.168.1.1, 00:00:07, GigabitEthernet0/0 192.168.3.0/24 is variably subnetted, 2 subnets, 2 masks
- C 192.168.3.0/24 is directly connected, GigabitEthernet0/1
- L 192.168.3.1/32 is directly connected, GigabitEthernet0/1

### Name of the Experiment: 06

Name of the Experiment: Configure Open Shortest Path First (OSPF) Routing Protocol Required Component:

- (1). Switch
- (2). UTP Cable (Straight Through)
- (3). Ethernet crossover cable
- (4). End Device (Desktop, Laptop etc)
- (5). Router

#### OSPF Configuration



### **#Procedure:**

- (1). Drag and Drop Routers, Switches and PCs.
- (2). Select cable and make sure a proper connections.
- (3). Double click on router.
- (4). Click on CLI Tab.
- (5). First assign IP Address of on interface
- (6). Assign OSPF command. (ospf then numerical value such as 1,2,3)
- (7). Mention Network then Wild card mask then area.
- (8). Finally save this configuration

# # IP Configuration Router0:

Router>en

Router#conf t

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

Router(config)#int gig 0/0

Router(config-if)#ip add 192.168.1.1 255.255.255.0

Router(config-if)#no shut

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

Router(config-if)#exit

Router(config)#int gig 0/1

Router(config-if)#ip add 192.168.2.1 255.255.255.0

Router(config-if)#no shut

## # IP Configuration Router1:

Router>en

Router#conf t

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

Router(config)#int gig 0/0

Router(config-if)#ip add 192.168.1.2 255.255.255.0

Router(config-if)#no shut

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

Router(config-if)#exit

Router(config)#int gig 0/1

Router(config-if)#ip add 192.168.3.1 255.255.255.0

Router(config-if)#no shut

## **#OSPF Configuration Router0:**

Router#conf t

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

Router(config)#router ospf 1

Router(config-router)#network 192.168.1.0 0.0.0.255 area 0

Router(config-router)#network 192.168.2.0 0.0.0.255 area 0

Router(config-router)#exit

Router(config)#exit

Router#

Router#wr

Building configuration...

[OK]

# # OSPF Configuration Router1:

Router#conf t

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

Router(config)#router ospf 1

Router(config-router)#network 192.168.1.0 0.0.0.255 area 0

Router(config-router)#network 192.168.3.0 0.0.0.255 area 0

Router(config-router)#exit

Router(config)#exit Router# Router#wr Building configuration... [OK]

## **#Simulation Process: (Router0)**

Router#

Router#showip route

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

- \* candidate default, U per-user static route, o ODR
- P periodic downloaded static route

Gateway of last resort is not set

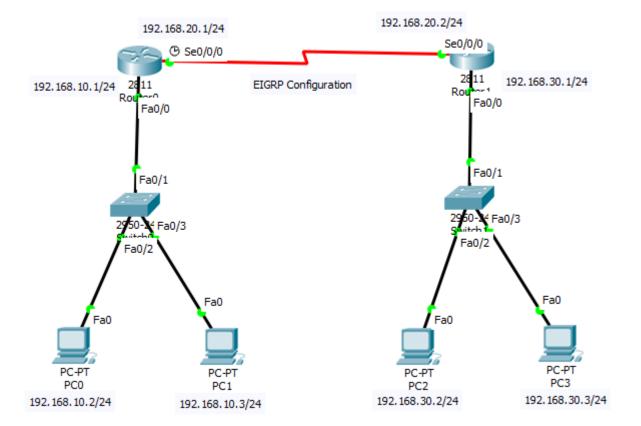
192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks

- C 192.168.1.0/24 is directly connected, GigabitEthernet0/0
- L 192.168.1.2/32 is directly connected, GigabitEthernet0/0
- O 192.168.2.0/24 [110/2] via 192.168.1.1, 00:00:07, GigabitEthernet0/0 192.168.3.0/24 is variably subnetted, 2 subnets, 2 masks
- C 192.168.3.0/24 is directly connected, GigabitEthernet0/1
- L 192.168.3.1/32 is directly connected, GigabitEthernet0/1

# Name of the Experiment: 07

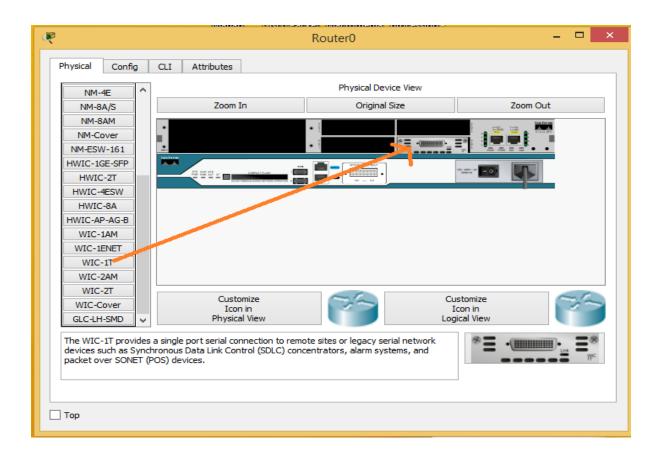
Name of the Experiment: Configure Enhanced Interior Gateway Routing Protocol (EIGRP) Required Components:

- (1). Switch
- (2). UTP Cable (Straight Through)
- (3). Serial DCE cable
- (4). End Device ( Desktop, Laptop etc. )
- (5). Router



#### #Procedure:

- (1). Drag and Drop Routers (2811), Switches and PCs.
- (2). Double click on router then by default "Physical" tab. first power off your router. We need to add WIC-!T Module on this router. Then power on your router.



- (2). Select cable and make sure a proper connections.
- (3). Double click on router.
- (4). Click on CLI Tab.
- (5). First assign IP Address of on interface
- (6). Assign EIGRP command. (eigrp then numerical value such as 1,2,3)
- (7). Mention network then subnet mask.
- (8). Finally save this configuration

# # IP Configuration Router0:

Router>enable

Router#configure terminal

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

Router(config)#interface fastEthernet 0/0

Router(config-if)#ip address 192.168.10.1 255.255.255.0

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 serial 0/0/0

Router(config-if)#ip address 192.168.20.1 255.255.255.0

Router(config-if)#clock rate 128000

Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down

Router(config-if)#exit Router(config)#exit

Router#

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

Router#copy running-config startup-config Destination filename [startup-config]?

Building configuration...

[OK]

Router#

### # IP Configuration Router1:

Router>enable

Router#configure terminal

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

Router(config)#interface fastEthernet 0/0

Router(config-if)#ip address 192.168.30.1 255.255.255.0

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 serial 0/0/0

Router(config-if)#ip address 192.168.20.2 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface SerialO/O/O, changed state to up

Router(config-if)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#

%LINEPROTO-5-UPDOWN: Line protocol on Interface SerialO/0/0, changed state to up

Router#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Router#

## # EIGRP Configuration Router0:

Router#configure terminal

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

Router(config)#router eigrp 10

Router(config-router)#network 192.168.10.0 255.255.255.0

Router(config-router)#network 192.168.20.0 255.255.255.0

Router(config-router)#^Z

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Router#

### # EIGRP Configuration Router1:

Router#configure terminal

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

Router(config)#router eigrp 10

Router(config-router)#network 192.168.20.0 255.255.255.0

Router(config-router)#

%DUAL-5-NBRCHANGE: IP-EIGRP 10: Neighbor 192.168.20.1 (Serial0/0/0) is up: new adjacency

Router(config-router)#network 192.168.30.0 255.255.255.0

Router(config-router)#^Z

Router#

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

Router#copy runn

Router#copy running-config st

Router#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

Router#

## # Simulation Process: (Router0)

Router#show ip route

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

\* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

C 192.168.10.0/24 is directly connected, FastEthernet0/0

C 192.168.20.0/24 is directly connected, Serial0/0/0

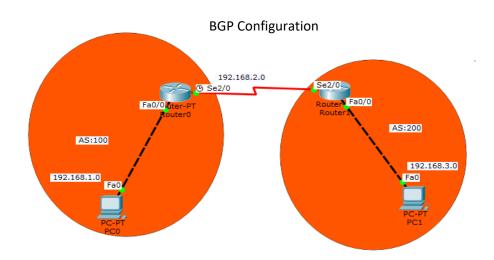
D 192.168.30.0/24 [90/20514560] via 192.168.20.2, 00:12:51, Serial0/0/0

Name of the Experiment: 08

Name of the Experiment: Configure Border Gateway Protocol (BGP)

## **Required Components:**

- (1). Switch
- (2). Automatically choose connection type cable
- (3). End Device ( Desktop, Laptop etc )
- (4). Router.



## # Procedure:

- (1). Drag and Drop Routers, Switches and PCs.
- (2). Select cable and make sure a proper connections.
- (3). Double click on router.
- (4). Click on CLI Tab.
- (5). First assign IP Address of on interface
- (6). Assign BGP command. (bgp then numerical value such as 100,200)
- (7). Mention Network then neighbor network with remote-as(100/200).
- (8). Finally save this configuration

### # IP Configuration Router0:

Router>enable

Router#configure terminal

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

Router(config)#interface fastEthernet 0/0

Router(config-if)#ip address 192.168.1.1 255.255.255.0

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)#

Router(config)#interface se2/0

Router(config-if)#ip address 192.168.2.2 255.255.25.0

Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial2/0, changed state to down

Router(config-if)#clock rate 64000

Router(config-if)#no shutdown

Router(config-if)#exit Router(config)#exit

Router#

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

Router#wr

Building configuration...

[OK]

Router#

# # IP Configuration Router1:

Router>enable

Router#configure terminal

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

Router(config)#interface fastEthernet 0/0

Router(config-if)#ip address 192.168.3.1 255.255.255.0

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 se2/0

Router(config-if)#ip address 192.168.2.3 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface Serial2/0, changed state to up

Router(config-if)#exit

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router(config)#exit

Router#

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

Router#wr

Building configuration...

[OK]

Router#

## # BGP Configuration Router0:

Router#configure terminal

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

Router(config)#router bgp 100

Router(config-router)#network 192.168.1.0

Router(config-router)#network 192.168.2.0

Router(config-router)#neighbor 192.168.2.3 remote-as 200

Router(config-router)#neighbor 192.168.3.2 remote-as 200

Router(config-router)#exit

Router(config)#exit

Router#

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

Router#wr

Building configuration...

[OK]

Router#

# # BGP Configuration Router1:

Router#configure terminal

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

Router(config)#router bgp 200

Router(config-router)#network 192.168.2.0

Router(config-router)#network 192.168.3.0

Router(config-router)#neighbor 192.168.2.2 remote-as 100

Router(config-router)#%BGP-5-ADJCHANGE: neighbor 192.168.2.2 Up

Router(config-router)#neighbor 192.168.1.2 remote-as 100

Router(config-router)#exit

```
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

Router#wr
Building configuration...
[OK]
Router#

### # Simulation Process: (Router0)

Router#show ip route

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area \* - candidate default, U - per-user static route, o - ODR P - periodic downloaded static route

Gateway of last resort is not set

C 192.168.1.0/24 is directly connected, FastEthernet0/0 C 192.168.2.0/24 is directly connected, Serial2/0 B 192.168.3.0/24 [20/0] via 192.168.2.3, 01:02:34