



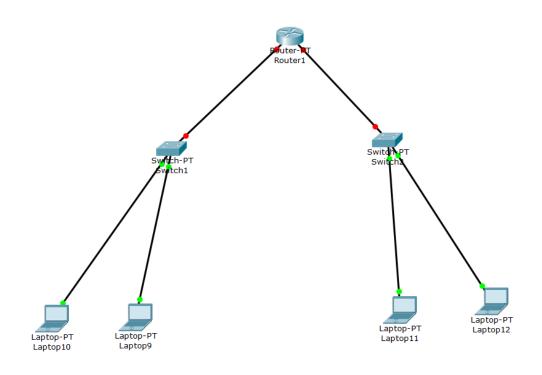
Network Lab

Lech 2: LAN Network By: MSc Rajaa Mahmood

Router Configuration

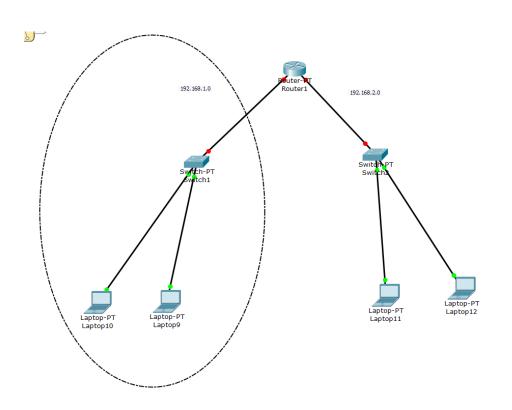
Step-1(Designed Network topology)

- 1. Connect FastEthernet0 port of Switch1 with FastEthernet0/0 port of Router1 using a copper straightthrough cable. And connect each PC with switch
- 2. Connect FastEthernet0 port of Switch2 with FastEthernet0/1 port of Router1 using a copper straightthrough cable.



Step-2(Configuring Router):

1. Enter to Router1



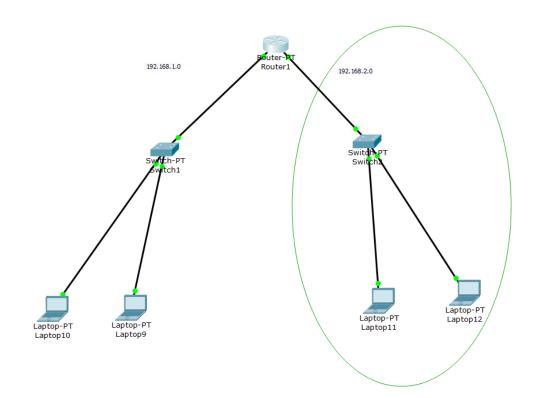
2- and select config

💐 Router0				—		\times
Physical Config	CLI					
GLOBAL ^	Global Settings					
Algorithm Settings	Display Name	Router0				
ROUTING Static	Hostname	Router				
RIP INTERFACE	NVRAM	Erase	Save			
FastEthernet0/0 FastEthernet1/0	Startup Confi	g Load	Export			
Serial2/0 Serial3/0	Running Confi	g Merge	Export			
FastEthernet4/0						
FastEthernet5/0						
Equivalent IOS Commands						
System Configuration Dialog Continue with configuration dialog? [yes/no]: n						
Press RETURN to get started!						

3- Enter to f0/0 and enter IP address (EX 192.168.1.1) and check on.

💐 Router0		- 🗆 ×		
Physical Config	CLI			
GLOBAL	FastEthernet0/0			
Settings	Port Status	🗹 On		
Algorithm Settings	Bandwidth	① 100 Mbps ○ 10 Mbps ☑ Auto		
ROUTING	Duplex	Half Duplex O Full Duplex Auto		
Static	MAC Address	00D0.FF22.3E10		
INTERFACE	IP Configuration			
FastEthernet0/0	IP Address	192.168.1.1		
FastEthernet1/0	Subnet Mask	255.255.255.0		
Serial2/0 Serial3/0				
FastEthernet4/0	Tx Ring Limit	10		
FastEthernet5/0				
	<u>×</u>			

4- Enter to Router1



- 5- and select config
- 6- Enter to f1/0 and enter IP address (EX 192.168.2.1) and check on.

Router1			- 🗆 X
Physical	Config	CLI	
GLOBAL Settings Algorithm Settings ROUTING Static RIP INTERFACE FastEthernet0/0		Port Status Bandwidth	astEthernet1/0 ✓ On ● 100 Mbps ○ 10 Mbps ☑ Auto Half Duplex ● Full Duplex ☑ Auto 000A.F3D7.A644 192.168.2.1
FastEtherr Serial2 Serial3 FastEtherr FastEtherr	/0 /0 net4/0	Subnet Mask Tx Ring Limit	255.255.0
Equivalent I	-1-		^

```
Router(config-if) #exit
Router(config) #interface FastEthernet1/0
Router(config-if) #ip address 192.168.2.1 255.255.255.0
Router(config-if) #
```

Step-3(Configuring PC):

Assign IP Addresses to every PC in the network.

- 1. Select the PC, Go to the desktop and select IP Configuration and assign an IP address, Default gateway, Subnet Mask
- 2. Assign the default gateway of PC0 as 192.168.1.1 and IP Address 192.168.1.10.
- 3. Assign the default gateway of PC1 as 192.168.1.1 and IP Address 192.168.1.20.
- 4. Assign the default gateway of PC3 as 192.168.2.1 and IP Address 192.168.2.10.

5. Assign the default gateway of PC4 as 192.168.2.1 and IP Address 192.168.2.50.

Step-4(Check Connection):

By send message or ping command.

Thank you