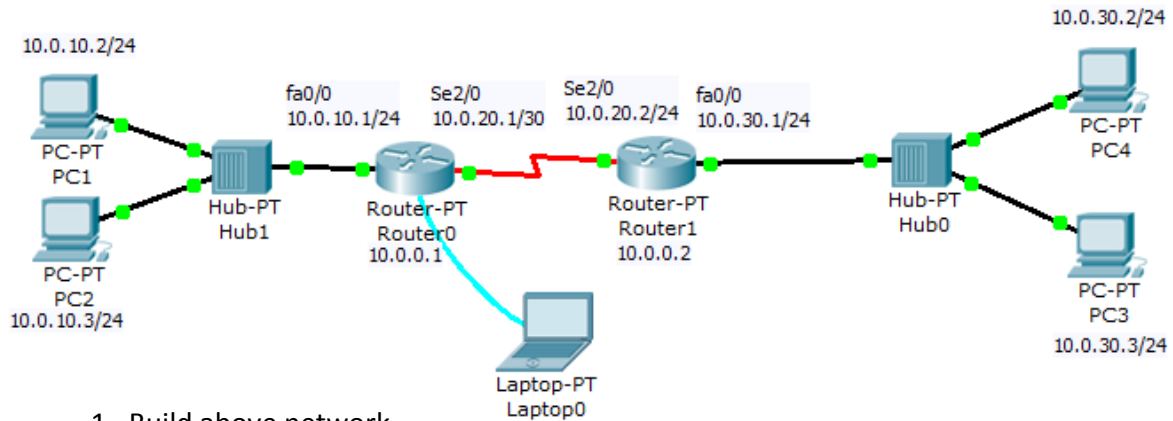


## Network II Lab 06

### A two cascaded routers wired Ethernet network

Equipment:

- 4 PCs
- 1 laptop
- 2 Router
- 2 Hub



1. Build above network
2. apply necessary configure to each node and terminal
3. Goals:
  - a. Each node and terminal can ping the rest devices in the network
  - b. Access Router0 & Router1 remotely from any PC

used devices

**Router**



**Hub**





### Router 0

```
Enable
Erase startup-config
reload

enable
Config t
hostname Router0
enable password cisco

line vty 0 4
password cisco
login
exit

interface Loopback 0
ip address 10.0.0.1 255.255.255.255
exit

interface FastEthernet0/0
ip address 10.0.10.1 255.255.255.0
no sh
exit

interface Serial2/0
ip address 10.0.20.1 255.255.255.0
no sh
clock rate 2000000
exit

ip route 10.0.10.0 255.255.255.0 FastEthernet0/0
ip route 10.0.20.0 255.255.255.0 Serial2/0
ip route 10.0.0.2 255.255.255.255 Serial2/0
ip route 10.0.30.0 255.255.255.0 Serial2/0

exit

copy running-config startup-config
```

### Router 1

```
Enable
Erase startup-config
reload
```



```
enable
Config t
hostname Router1
enable password cisco

line vty 0 4
password cisco
login
exit

interface Loopback 0
ip address 10.0.0.2 255.255.255.255
exit

interface FastEthernet0/0
ip address 10.0.30.1 255.255.255.0
no sh
exit

interface Serial2/0
ip address 10.0.20.1 255.255.255.0
no sh
exit

ip route 10.0.30.0 255.255.255.0 FastEthernet0/0
ip route 10.0.20.0 255.255.255.0 Serial2/0
ip route 10.0.10.0 255.255.255.0 Serial2/0
ip route 10.0.0.1 255.255.255.255 Serial2/0
exit

copy running-config startup-config
```

PC1	
IP	10.0.10.2
Subnet mask	255.255.255.0
Gateway	10.0.10.1

PC2	
IP	10.0.10.3
Subnet mask	255.255.255.0
Gateway	10.0.10.1



<b>PC3</b>	
IP	10.0.10.2
Subnet mask	255.255.255.0
Gateway	10.0.10.1

<b>PC4</b>	
IP	10.0.20.3
Subnet mask	255.255.255.0
Gateway	10.0.20.1