



# Network Lab

Lec 1: Router Configuration b

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# Router Configuration

## Step-1(Configuring Router1):

1. Select the router and Open CLI.
2. Press ENTER to start configuring Router1.
3. Type enable to activate the privileged mode.
4. Type config t(configuration terminal) to access the configuration menu.
5. Configure interfaces of Router1:

```
Router>enable
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#no shutdown
Router(config-if)#
```

## Step-2(Configuring PCs):

1. Assign IP Addresses to every PC in the network.
2. Select the PC, Go to the desktop and select IP Configuration and assign an IP address, Default gateway, Subnet Mask
3. Assign the default gateway of PC0 as 192.168.10.1.
4. Assign the default gateway of PC1 as 192.168.20.1.

## Step-3(Connecting PCs with Router):

1. Connect FastEthernet0 port of PC0 with FastEthernet0/0 port of Router1 using a copper straight-through cable.

2. Connect FastEthernet0 port of PC1 with FastEthernet0/1 port of Router1 using a copper straight-through cable.

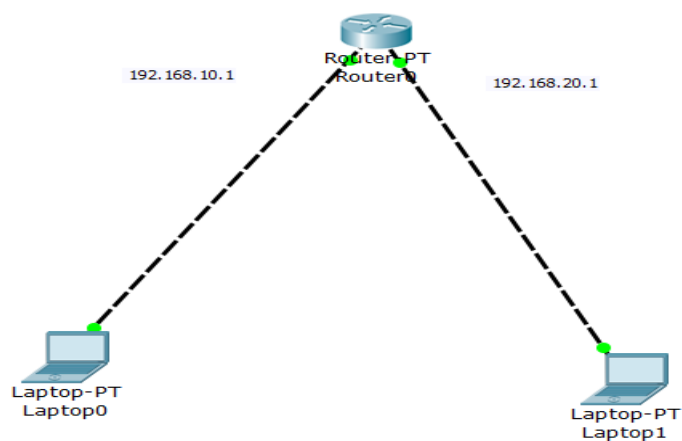
### Router Configuration Table:

| Device Name | IP address FastEthernet0/0 | Subnet Mask   | IP Address FastEthernet0/1 | Subnet Mask   |
|-------------|----------------------------|---------------|----------------------------|---------------|
| Router1     | 192.168.10.1               | 255.255.255.0 | 192.168.20.1               | 255.255.255.0 |

### PC Configuration Table:

| Device Name | IP address   | Subnet Mask   | Gateway      |
|-------------|--------------|---------------|--------------|
| PC 0        | 192.168.10.2 | 255.255.255.0 | 192.168.10.1 |
| PC 1        | 192.168.20.2 | 255.255.255.0 | 192.168.20.1 |

### Designed Network topology:



*Thank you*