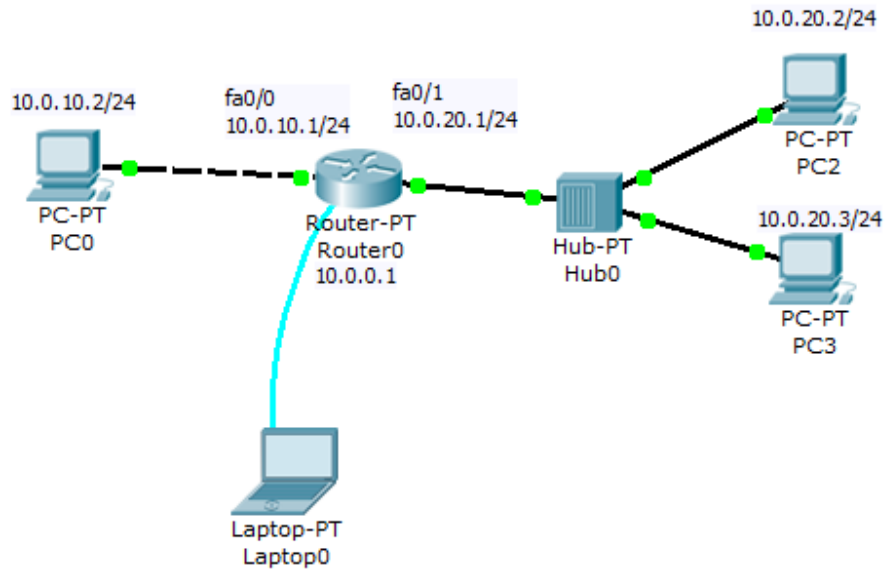


Network II Lab 05

Single router based Network – working with CISCO router

Equipment:

- 4 PCs
- 1 Cisco Router
- 1 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 remotely from any PC

used devices

Router



Hub



Configuration

Router

```
Enable

Erase startup-config

reload

Config t

enable password cisco

line vty 0 4
password cisco
login
exit

Interface fa0/0
IP address 10.0.10.1 255.255.255.0
No sh
exit

Interface fa0/1
IP address 10.0.20.1 255.255.255.0
No sh
exit

IP route 10.0.10.0 255.255.255.0 fa0/0
IP route 10.0.20.0 255.255.255.0 fa0/1
exit
```



```
interface loopback 0
no sh
ip address 10.0.0.1 255.255.255.255
exit

copy running-config startup-config

show running-config

reload
```

PC1

IP	10.0.10.2
Subnet mask	255.255.255.0
Gateway	10.0.10.1

PC2

IP	10.0.20.2
Subnet mask	255.255.255.0
Gateway	10.0.20.1

PC3

IP	10.0.20.3
Subnet mask	255.255.255.0
Gateway	10.0.20.1

Testing and configuration validation

1. using ping command from any entity to all other entities

Router:

```
Ping 10.0.10.2
Ping 10.0.20.2
Ping 10.0.20.3
```

PC1:

```
Ping 10.0.0.1
Ping 10.0.20.2
Ping 10.0.20.3
```

PC2:

```
Ping 10.0.0.1
Ping 10.0.10.2
Ping 10.0.20.3
```

PC3:

```
Ping 10.0.0.1
```



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Ping 10.0.10.2

Ping 10.0.20.2

2. using telnet command to router from any remote PCs

PC1:

telnet 10.0.0.1

cisco

cisco

show running-config

reload