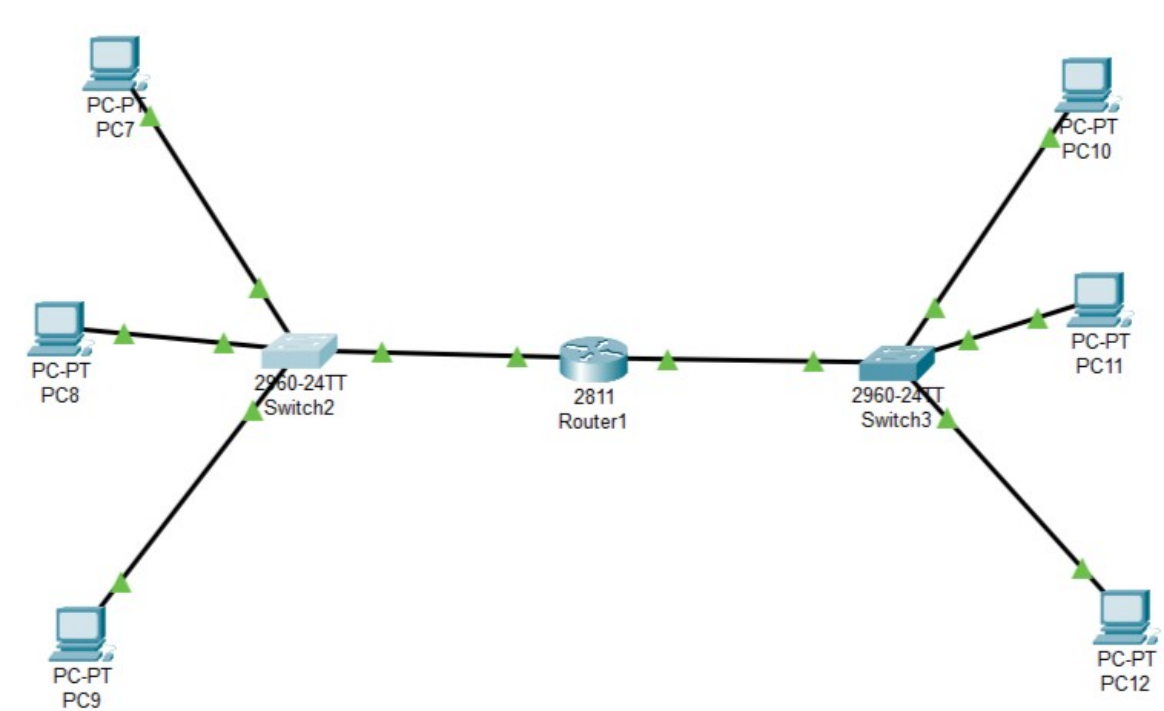


Лабораторная 12



MAC Address	000B.BE42.3201
IP Configuration	
IPv4 Address	192.168.0.254
Subnet Mask	255.255.255.0
Tx Ring Limit	
	10
Duplex	
<input checked="" type="radio"/> Half Duplex <input type="radio"/> Full Duplex	
MAC Address	000B.BE42.3202
IP Configuration	
IPv4 Address	192.168.1.1
Subnet Mask	
Tx Ring Limit	
	10

```
Router#ping 192.168.0.0
```

```
Type escape sequence to abort.
```

```
Sending 5, 100-byte ICMP Echos to 192.168.0.0, timeout is 2 seconds:
```

```
Reply to request 0 from 192.168.0.1, 0 ms
Reply to request 0 from 192.168.0.3, 0 ms
Reply to request 0 from 192.168.0.2, 1 ms
Reply to request 1 from 192.168.0.1, 0 ms
Reply to request 1 from 192.168.0.2, 0 ms
Reply to request 1 from 192.168.0.3, 1 ms
Reply to request 2 from 192.168.0.1, 0 ms
Reply to request 2 from 192.168.0.2, 0 ms
Reply to request 2 from 192.168.0.3, 0 ms
Reply to request 3 from 192.168.0.1, 0 ms
Reply to request 3 from 192.168.0.2, 0 ms
Reply to request 3 from 192.168.0.3, 0 ms
Reply to request 4 from 192.168.0.1, 0 ms
Reply to request 4 from 192.168.0.2, 0 ms
Reply to request 4 from 192.168.0.3, 0 ms
```

```
Router#
```

```
Router#show ip 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
```

```
192.168.0.0/24 is variably subnetted, 2 subnets, 2 masks
C    192.168.0.0/24 is directly connected, FastEthernet0/0
L    192.168.0.254/32 is directly connected, FastEthernet0/0
192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C    192.168.1.0/24 is directly connected, FastEthernet0/1
L    192.168.1.1/32 is directly connected, FastEthernet0/1
```

```
Router#
```

Эта команда является важным инструментом для диагностики проблем с маршрутизацией, поскольку она позволяет увидеть, как маршрутизатор понимает сеть и куда он будет отправлять трафик. С помощью этой команды можно выявить неправильные маршруты, отсутствие маршрутов и другие проблемы, которые могут привести к недоступности ресурсов в сети.

В данном конкретном выводе:

- Маршрутизатор знает о двух сетях: 192.168.0.0/24 и 192.168.1.0/24.
- Он напрямую подключен к этим сетям через интерфейсы FastEthernet0/0 и FastEthernet0/1.
- Видны локальные (L) адреса интерфейсов.

Router#ping 192.168.0.254

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 192.168.0.254, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 5/7/15 ms

Router#ping 192.168.1.1

Type escape sequence to abort.

Sending 5, 100-byte ICMP Echos to 192.168.1.1, timeout is 2 seconds:

!!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 4/5/8 ms

Router#
