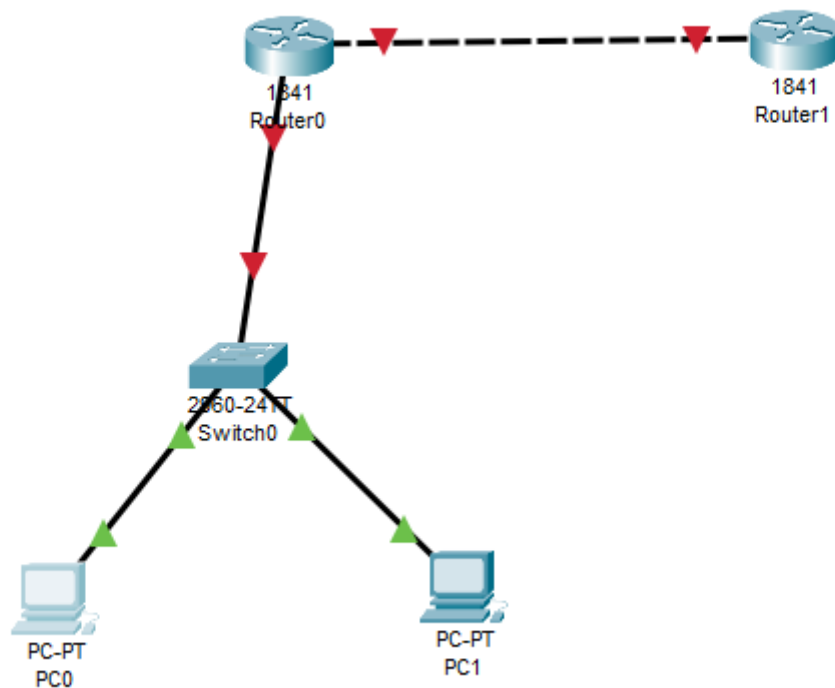


Компьютерные сети 23 – Динамический NAT

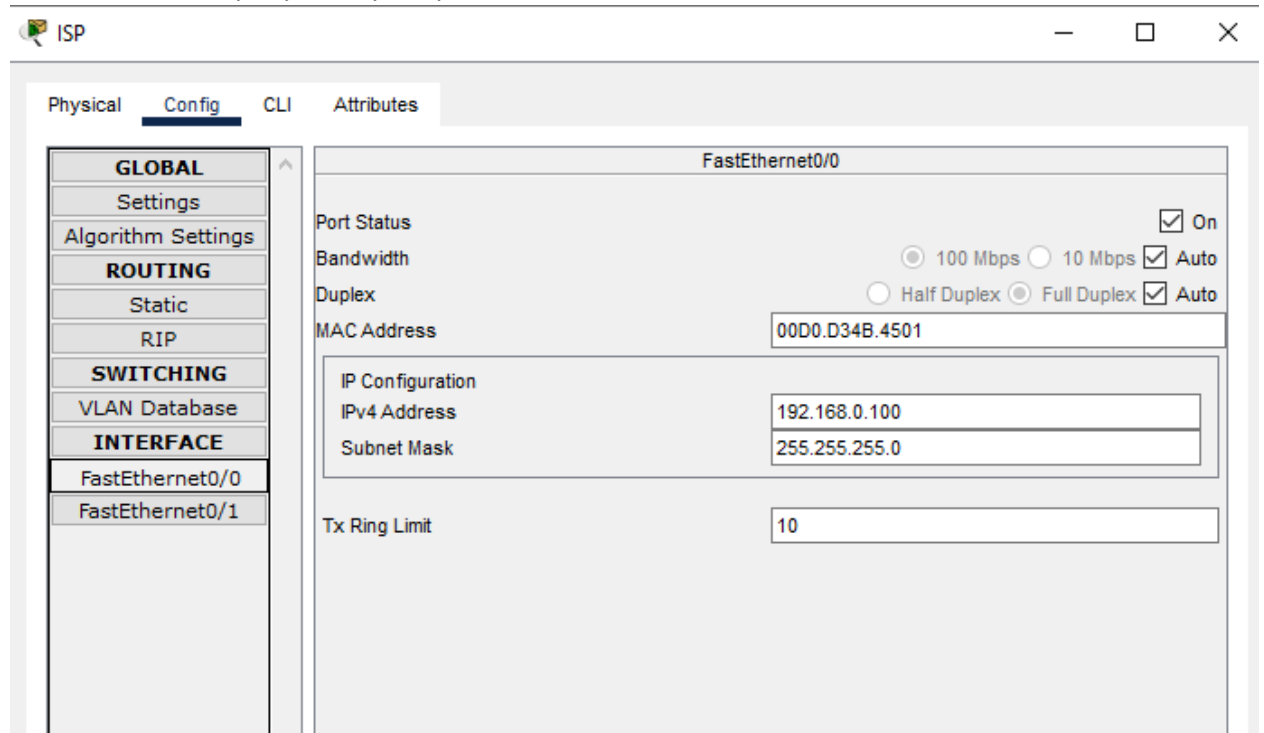
Строим сеть:



Настраиваем PC IP-адрес и шлюз

Настраиваем Роутер0

Подключение в сторону коммутатора



Подклбчение в сторону Роутера1

The screenshot shows the 'Config' tab of the ISP configuration window. On the left is a sidebar with a tree view containing: GLOBAL (expanded), Settings, Algorithm Settings, ROUTING (expanded), Static, RIP, SWITCHING (expanded), VLAN Database, INTERFACE (expanded), FastEthernet0/0, and FastEthernet0/1 (selected). The main area is titled 'FastEthernet0/1' and contains the following settings:

- Port Status: ☒ On
- Bandwidth: ☒ 100 Mbps, ☐ 10 Mbps, ☒ Auto
- Duplex: ☐ Half Duplex, ☒ Full Duplex, ☒ Auto
- MAC Address: 00D0.D34B.4502
- IP Configuration:
 - IPv4 Address: 100.10.10.1
 - Subnet Mask: 255.0.0.0
- Tx Ring Limit: 10

В терминале ISP (Роутера0)

```
Router(config)#access-list 1 permit 192.168.0.0 0.0.0.255
Router(config)#ip nat pool white-address 100.10.11.77 100.10.11.99 netmask 255.255.255.0
Router(config)#ip nat inside source list 1 pool white-address
Router(config)#int fa0/0
Router(config-if)#ip nat inside
Router(config-if)#int fa0/1
Router(config-if)#ip nat outside
```

Пингуем Роутер1

```
C:\>ping 100.10.10.2

Pinging 100.10.10.2 with 32 bytes of data:

Reply from 100.10.10.2: bytes=32 time<1ms TTL=254
Reply from 100.10.10.2: bytes=32 time=4ms TTL=254
Reply from 100.10.10.2: bytes=32 time<1ms TTL=254
Reply from 100.10.10.2: bytes=32 time<1ms TTL=254

Ping statistics for 100.10.10.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 4ms, Average = 1ms
```

Проверяем show ip nat translation

```
Router#show ip nat translation
Pro  Inside global      Inside local      Outside local     Outside global
icmp 100.10.11.77:5        192.168.0.2:5    100.10.10.2:5    100.10.10.2:5
icmp 100.10.11.77:6        192.168.0.2:6    100.10.10.2:6    100.10.10.2:6
icmp 100.10.11.77:7        192.168.0.2:7    100.10.10.2:7    100.10.10.2:7
icmp 100.10.11.77:8        192.168.0.2:8    100.10.10.2:8    100.10.10.2:8
```