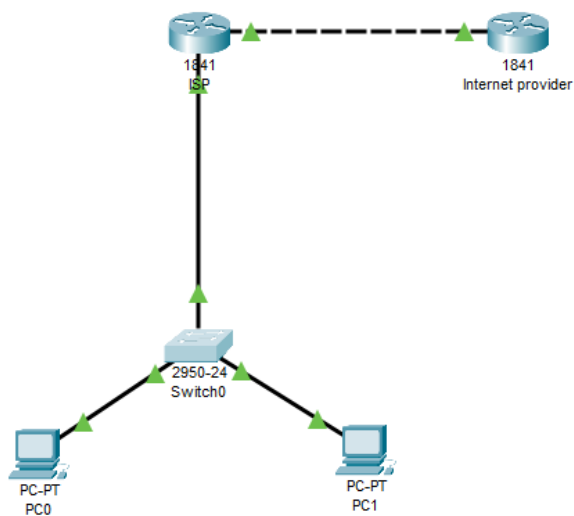
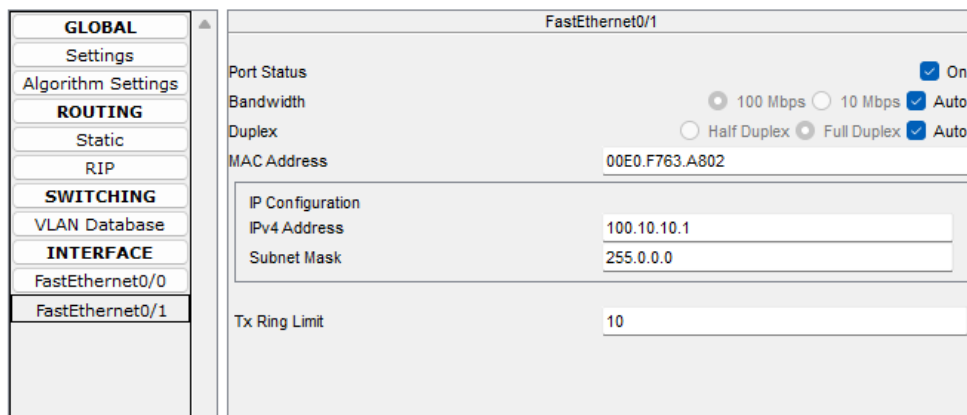
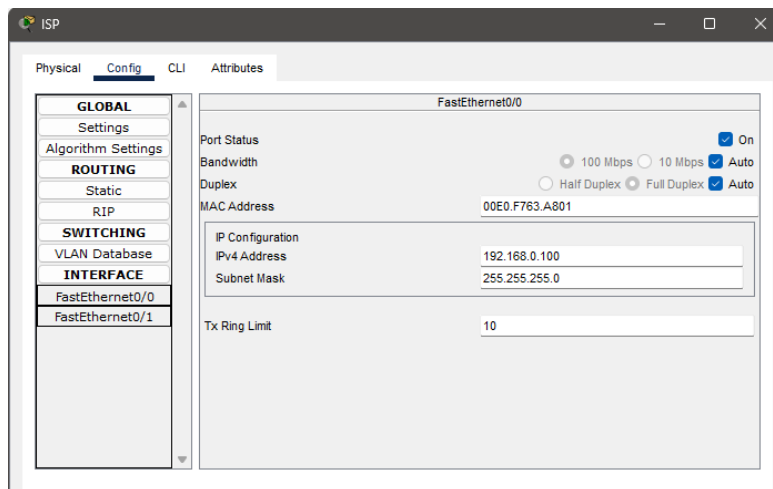


Практическая работа 22 – Статистический NAT

1. Строим сеть



2. Настраиваем ISP на локальную и внешнюю сеть



3. Настраиваем роутер 1

Internet provider

Physical Config CLI Attributes

GLOBAL

- Settings
- Algorithm Settings

ROUTING

- Static
- RIP

SWITCHING

- VLAN Database

INTERFACE

- FastEthernet0/0
- FastEthernet0/1

FastEthernet0/0

Port Status ☒ On

Bandwidth ☐ 100 Mbps ☐ 10 Mbps ☒ Auto

Duplex ☐ Half Duplex ☒ Full Duplex ☒ Auto

MAC Address 0004.9ACD.0B01

IP Configuration

IPv4 Address 100.10.10.2

Subnet Mask 255.0.0.0

Tx Ring Limit 10

Equivalent IOS Commands

```
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 100.10.10.2 255.0.0.0
Router(config-if)#ip address 100.10.10.2 255.0.0.0
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
```

☐ Top

4. Настраиваем NAT.

```
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)#
Router(config)#int fa0/0
Router(config-if)#ip nat inside
Router(config-if)#int fa0/1
Router(config-if)#ip nat outside
Router(config-if)#exit
Router(config)#
```

5. Проверяем связь от устройства к роутеру 1 через глобальный адрес.

```
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<1ms 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 = 0ms, Average = 0ms

C:\>
```

6. show ip nat translations через терминал роутера ISP

```
show ip nat translations
Pro Inside global      Inside local      Outside local      Outside global
icmp 100.10.11.2:10    192.168.0.1:10    100.10.10.2:10    100.10.10.2:10
icmp 100.10.11.2:11    192.168.0.1:11    100.10.10.2:11    100.10.10.2:11
icmp 100.10.11.2:12    192.168.0.1:12    100.10.10.2:12    100.10.10.2:12
icmp 100.10.11.2:9     192.168.0.1:9     100.10.10.2:9     100.10.10.2:9
```