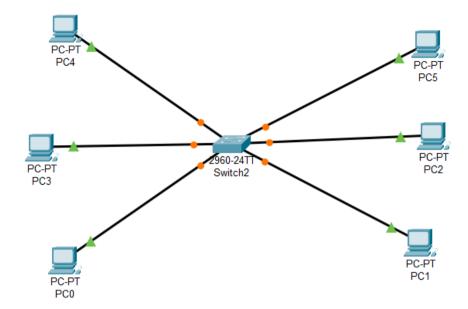
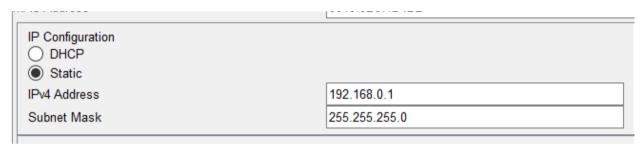
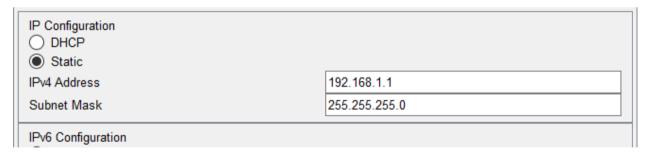
Создал сеть



Настроил устройства слева



И справа

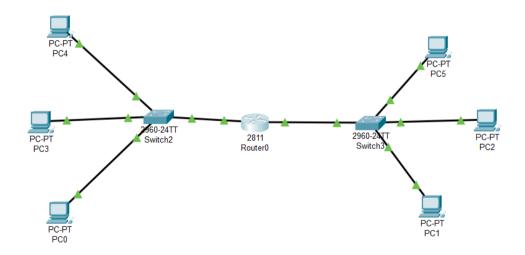


Пингуем

```
C:\>ping 192.168.0.1
Pinging 192.168.0.1 with 32 bytes of data:
Reply from 192.168.0.1: bytes=32 time=8ms TTL=128
Reply from 192.168.0.1: bytes=32 time=4ms TTL=128
Reply from 192.168.0.1: bytes=32 time=3ms TTL=128
Reply from 192.168.0.1: bytes=32 time=2ms TTL=128
Ping statistics for 192.168.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
   Minimum = 2ms, Maximum = 8ms, Average = 4ms
C:\>ping 192.168.1.2
Pinging 192.168.1.2 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Для связи двух подсетей нужен маршрутизатор

Подключаем роутер



Настраиваем порты

	FastEthernet0/0
Port Status Bandwidth Duplex MAC Address	Or 100 Mbps 10 Mbps Auto Half Duplex Full Duplex Auto 00D0.5828.B001
IP Configuration IPv4 Address Subnet Mask	192.168.0.254 255.255.255.0
Tx Ring Limit	10
	FastEthernet0/1

FastEthernet0/1	
Port Status	✓ On
Bandwidth	■ 100 Mbps ○ 10 Mbps ✓ Auto
Duplex	○ Half Duplex ○ Full Duplex ✓ Auto
MAC Address	00D0.5828.B002
IP Configuration	
IPv4 Address	192.168.1.254
Subnet Mask	255.255.255.0
Tx Ring Limit	10

show ip route

Данная команда используется для отображения текущего состояния таблицы маршрутизации.

```
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
С
       192.168.0.0/24 is directly connected, FastEthernet0/0
       192.168.0.254/32 is directly connected, FastEthernet0/0
L
    192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
С
       192.168.1.0/24 is directly connected, FastEthernet0/1
L
       192.168.1.254/32 is directly connected, FastEthernet0/1
```

Настроил шлюзы

Gateway/DNS IP	v4
Default Gateway	192.168.0.254
DNS Server	
Display Name	PC5 FastEthernet0
Gateway/DNS DHCP Static	
Default Gatew DNS Server	7ay 192.168.1.254

Пингуем через роутер

```
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 192.168.0.2, 0 ms
Reply to request 0 from 192.168.0.3, 0 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, 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 2 from 192.168.0.1, 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#ping 192.168.1.0
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 192.168.1.0, timeout is 2 seconds:
Reply to request 0 from 192.168.1.1, 0 ms
Reply to request 0 from 192.168.1.2, 0 ms
Reply to request 0 from 192.168.1.3, 0 ms
Reply to request 1 from 192.168.1.1, 0 ms
Reply to request 1 from 192.168.1.2, 1 ms
Reply to request 1 from 192.168.1.3, 0 ms
Reply to request 2 from 192.168.1.1, 0 ms
Reply to request 2 from 192.168.1.2, 0 ms
Reply to request 2 from 192.168.1.3, 0 ms
Reply to request 3 from 192.168.1.1, 0 ms
Reply to request 3 from 192.168.1.2, 0 ms
Reply to request 3 from 192.168.1.3, 0 ms
Reply to request 4 from 192.168.1.1, 0 ms
Reply to request 4 from 192.168.1.2, 0 ms
Reply to request 4 from 192.168.1.3, 0 ms
Пингуем из одной сети в другую
C:\>ping 192.168.1.2
Pinging 192.168.1.2 with 32 bytes of data:
Reply from 192.168.1.2: bytes=32 time<1ms TTL=127
Reply from 192.168.1.2: bytes=32 time<1ms TTL=127
```

```
C:\>ping 192.168.1.2
Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time<lms TTL=127
Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = Oms, Maximum = Oms, Average = Oms</pre>
C:\>
```