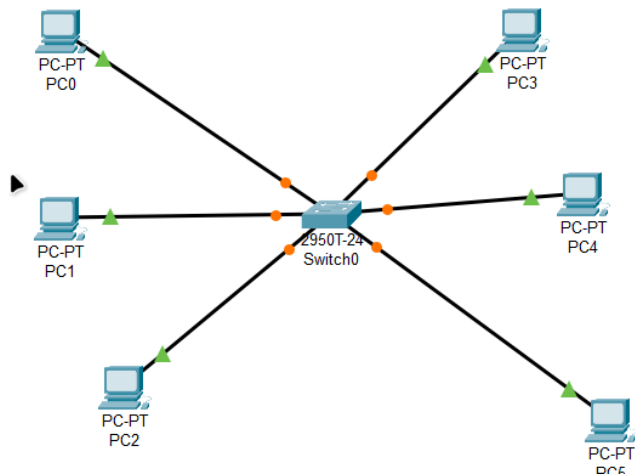


Практика 12

Создал конструкцию нужную для практики и ip каждого устройства



Пингуем 3 устройства

```
PC0
Physical Config Desktop Programming Attributes
Command Prompt
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.2

Pinging 192.168.0.2 with 32 bytes of data:

Reply from 192.168.0.2: bytes=32 time<1ms TTL=128
Reply from 192.168.0.2: bytes=32 time<1ms TTL=128
Reply from 192.168.0.2: bytes=32 time<1ms TTL=128
Reply from 192.168.0.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 192.169.0.1

Pinging 192.169.0.1 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.169.0.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>|
```

При отправке пакетов из одной сети в другую они не доходят. Для связи двух подсетей требуется маршрутизатор.

Настраиваем роутер

FastEthernet0/0	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input checked="" type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	00D0.BCD5.D501
<div>IP Configuration</div> <div> <div>IPv4 Address</div> <div>192.168.0.254</div> </div> <div> <div>Subnet Mask</div> <div>255.255.255.0</div> </div>	
Tx Ring Limit	10

FastEthernet0/1	
Port Status	<input checked="" type="checkbox"/> On
Bandwidth	<input type="radio"/> 100 Mbps <input type="radio"/> 10 Mbps <input checked="" type="checkbox"/> Auto
Duplex	<input type="radio"/> Half Duplex <input checked="" type="radio"/> Full Duplex <input checked="" type="checkbox"/> Auto
MAC Address	00D0.BCD5.D502
<div>IP Configuration</div> <div> <div>IPv4 Address</div> <div>192.168.1.254</div> </div> <div> <div>Subnet Mask</div> <div>255.255.255.0</div> </div>	
Tx Ring Limit	10

Настраиваем устройства

Global Settings	
Display Name	PC0
Interfaces	FastEthernet0
<div>Gateway/DNS IPv4</div> <div> <input type="radio"/> DHCP <input checked="" type="radio"/> Static </div> <div> <div>Default Gateway</div> <div>192.168.0.254</div> </div> <div> <div>DNS Server</div> <div></div> </div>	
<div>Gateway/DNS IPv6</div> <div> <input type="radio"/> Automatic <input checked="" type="radio"/> Static </div> <div> <div>Default Gateway</div> <div></div> </div> <div> <div>DNS Server</div> <div></div> </div>	

Global Settings

Display Name

Interfaces

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway

DNS Server

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

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 192.168.0.1, 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#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, 0 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

```

```
C:\>ping 192.168.1.1
```

```
Pinging 192.168.1.1 with 32 bytes of data:
```

```
Reply from 192.168.1.1: bytes=32 time<1ms TTL=127
```

```
Reply from 192.168.1.1: bytes=32 time<1ms TTL=127
```

```
Reply from 192.168.1.1: bytes=32 time<1ms TTL=127
```

```
Reply from 192.168.1.1: bytes=32 time=2ms TTL=127
```

```
Ping statistics for 192.168.1.1:
```

```
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

```
Approximate round trip times in milli-seconds:
```

```
    Minimum = 0ms, Maximum = 2ms, Average = 0ms
```

```
C:\>|
```

```
C:\>ping 192.168.1.1
```

```
Pinging 192.168.1.1 with 32 bytes of data:
```

```
Reply from 192.168.1.1: bytes=32 time<1ms TTL=127
```

```
Reply from 192.168.1.1: bytes=32 time<1ms TTL=127
```

```
Reply from 192.168.1.1: bytes=32 time<1ms TTL=127
```

```
Reply from 192.168.1.1: bytes=32 time=2ms TTL=127
```

```
Ping statistics for 192.168.1.1:
```

```
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

```
Approximate round trip times in milli-seconds:
```

```
    Minimum = 0ms, Maximum = 2ms, Average = 0ms
```

```
C:\>|
```