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Учреждение образования
БЕЛОРУССКИЙ ГОСУДАРСТВЕННЫЙ УНИВЕРСИТЕТ
ИНФОРМАТИКИ И РАДИОЭЛЕКТРОНИКИ

Факультет компьютерных систем и сетей
Кафедра программного обеспечения информационных технологий
Дисциплина: Сетевые технологии и администрирование операционных систем (СТиАОС)

ОТЧЕТ
по лабораторной работе №1

Выполнил
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Верещагин Н.В.

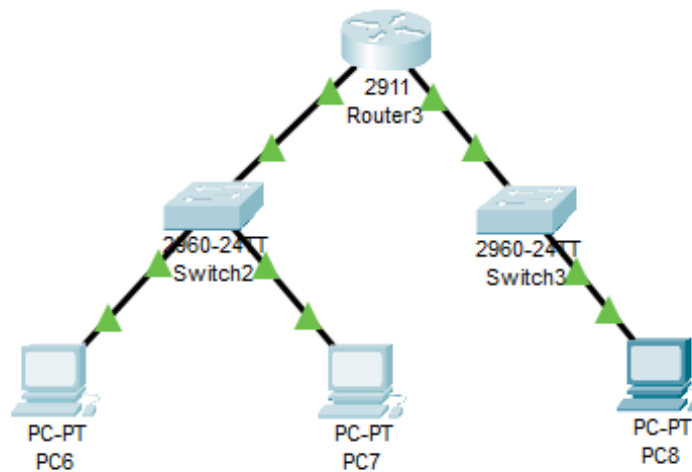
Проверил:

Медведев С.А.

Минск 2021

Результат выполнения

Собранная схема в среде Cisco Packet Tracer



Конфигурация роутера

```
--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]:
% Please answer 'yes' or 'no'.
Would you like to enter the initial configuration dialog? [yes/no]:
no

Press RETURN to get started!

Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface g0/0
Router(config-if)#ip address 192.168.201.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0,
changed state to up

Router(config-if)#interface g0/1
Router(config-if)#ip address 192.168.202.1 255.255.255.0
Router(config-if)#no shutdown
```

Конфигурация ПК-1

PC6

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.201.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.201.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::2D0:97FF:FE67:106B

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

Username

☐ Top

Конфигурация ПК-2

PC8

Physical Config **Desktop** Programming Attributes

IP Configuration X

Interface FastEthernet0

IP Configuration

☐ DHCP ☒ Static

IP Address 192.168.202.2

Subnet Mask 255.255.255.0

Default Gateway 192.168.202.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::210:11FF:FE5D:4164

IPv6 Gateway

IPv6 DNS Server

802.1X

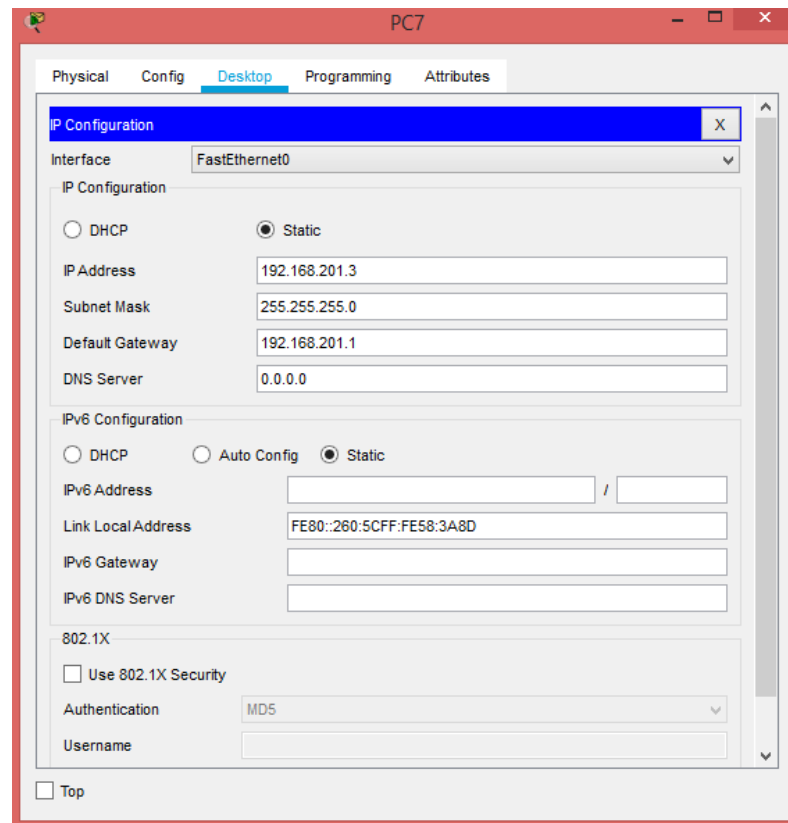
☐ Use 802.1X Security

Authentication MD5

Username

☐ Top

Конфигурация ПК-3



Ping компьютера в одной подсети

```
C:\>ping 192.168.201.3

Pinging 192.168.201.3 with 32 bytes of data:

Reply from 192.168.201.3: bytes=32 time=31ms TTL=128
Reply from 192.168.201.3: bytes=32 time<1ms TTL=128
Reply from 192.168.201.3: bytes=32 time<1ms TTL=128
Reply from 192.168.201.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.201.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 31ms, Average = 7ms
```

Ping в компьютера в другой подсети

```
C:\>ping 192.168.202.2

Pinging 192.168.202.2 with 32 bytes of data:

Request timed out.
Reply from 192.168.202.2: bytes=32 time=19ms TTL=127
Reply from 192.168.202.2: bytes=32 time=12ms TTL=127
Reply from 192.168.202.2: bytes=32 time=11ms TTL=127

Ping statistics for 192.168.202.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 11ms, Maximum = 19ms, Average = 14ms
```