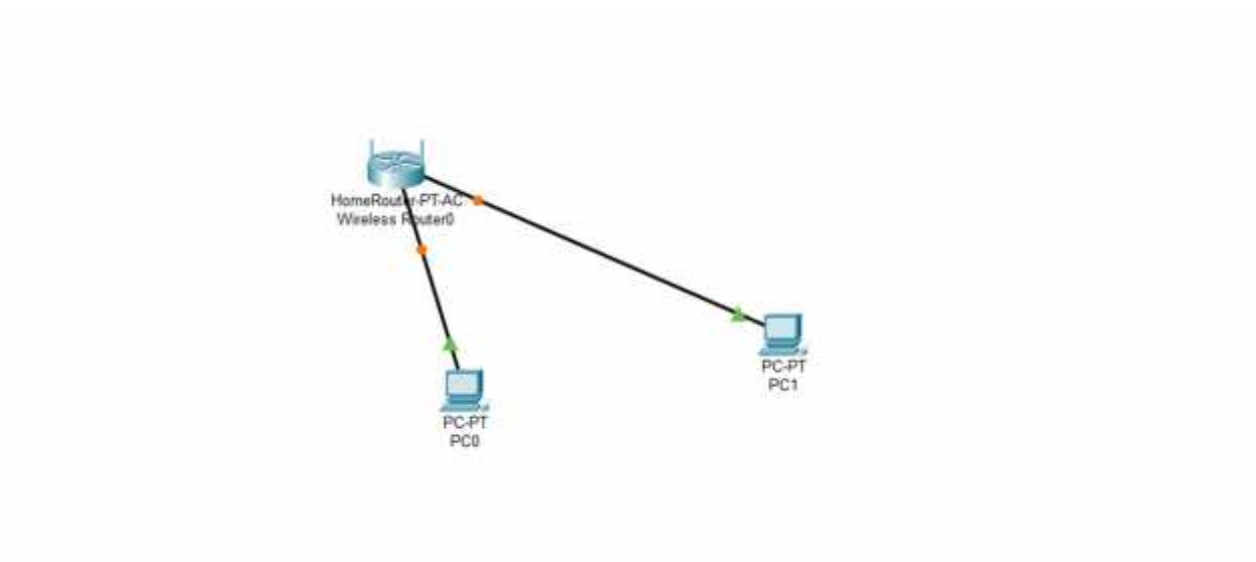
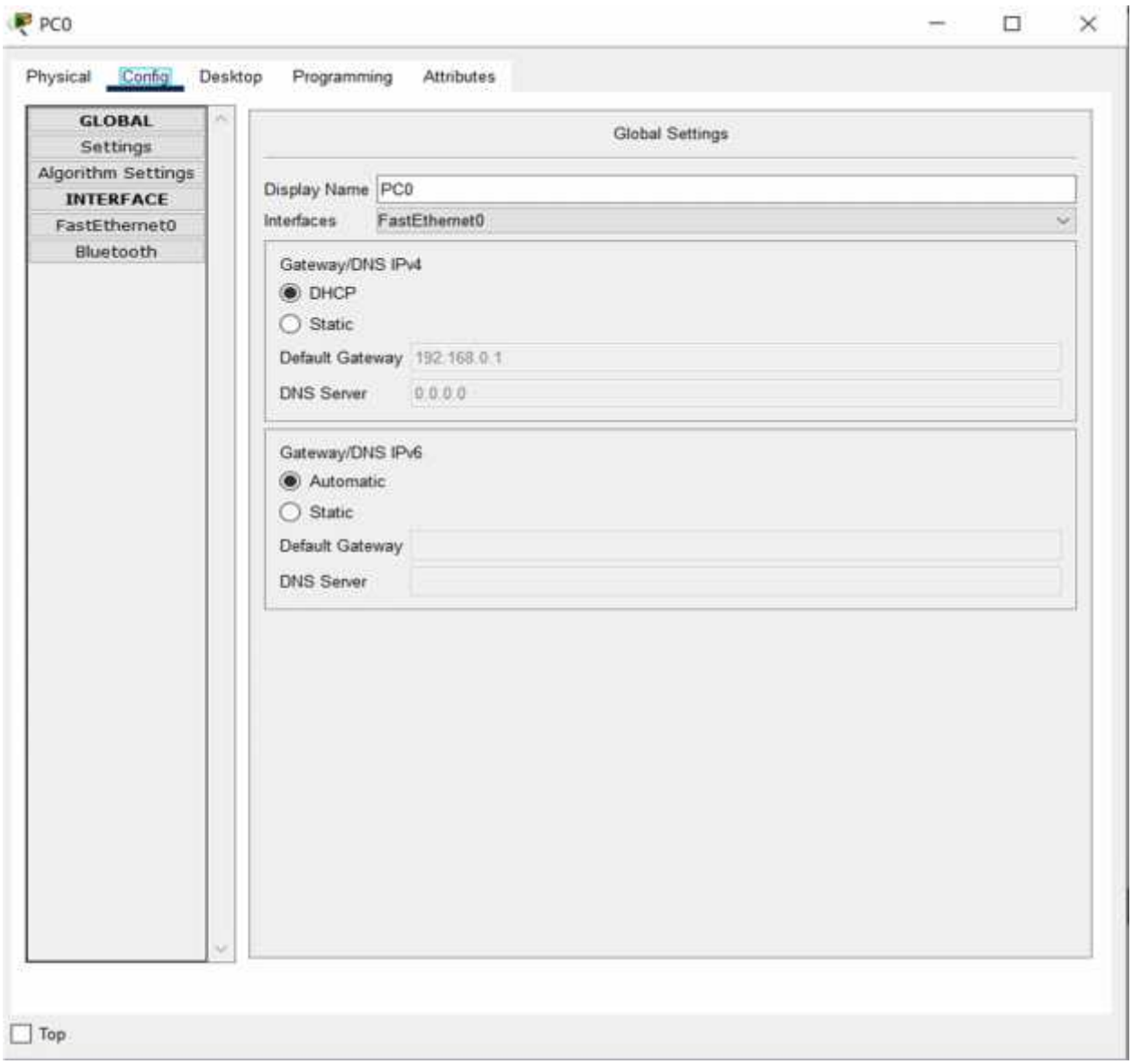
Схема сети

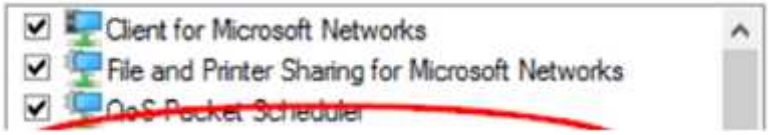


Использование DCHP для определения IP



Какие имя и номер модели сетевой платы указаны в окне «Подключение с помощью:»?

Какие первые три элемента указаны в поле «Компоненты, используемые этим подключением:»?



Проверка IP адреса с помощью команды ipconfig /all

```
FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Physical Address.................: 00D0.BCCD.080B
   Link-local IPv6 Address.........: FE80::2D0:BCFF:FECD:80B
   IPv6 Address....................: ::
   IPv4 Address....................: 192.168.0.100
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.168.0.1
   DHCP Servers....................: 192.168.0.1
   DHCPv6 IAID.....................:
   DHCPv6 Client DUID..............: 00-01-00-01-5E-57-02-E2-00-D0-BC-CD-08-0B
   DNS Servers.....................: ::
                                     0.0.0.0
```

Какой адрес IPv4 у данного компьютера?

```
   IPv4 Address....................: 192.168.0.100
```

Укажите маску подсети данного компьютера.

```
   Subnet Mask.....................: 255.255.255.0
```

Укажите основной шлюз данного компьютера.

```
   Default Gateway.................: ::
                                     192.168.0.1
```

Каковы серверы DNS для данного компьютера?

```
   DNS Servers.....................: ::
                                     0.0.0.0
```

Какой MAC-адрес (физический адрес) у данного компьютера?

```
   Physical Address................: 00D0.BCCD.080B
```

DHCP включен?

Да

Какой IP-адрес у DHCP-сервера?

```
   DHCP Servers....................: 192.168.0.1
```

Какова дата получения аренды?

```
Lease Obtained. . . . . . . . . . . : Sunday, July 24, 2016 4:58:26 PM
```

Какова дата окончания срока аренды?

```
Lease Expires . . . . . . . . . . . : Monday, July 25, 2016 4:58:12 AM
```

Проверка TCP/IP PC-A

```
C:\>ping 127.0.0.1

Pinging 127.0.0.1 with 32 bytes of data:

Reply from 127.0.0.1: bytes=32 time=13ms TTL=128
Reply from 127.0.0.1: bytes=32 time=10ms TTL=128
Reply from 127.0.0.1: bytes=32 time<1ms TTL=128
Reply from 127.0.0.1: bytes=32 time=10ms TTL=128

Ping statistics for 127.0.0.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 13ms, Average = 8ms
```

Запишите один из ответов на команду ping.

Аналогичная настройка B-PC. Проверка подключения

```
FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Physical Address................: 0009.7C53.B300
   Link-local IPv6 Address.........: FE80::209:7CFF:FE53:B300
   IPv6 Address....................: ::
   IPv4 Address....................: 192.168.0.101
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.168.0.1
   DHCP Servers....................: 192.168.0.1
   DHCPv6 IAID.....................:
   DHCPv6 Client DUID..............: 00-01-00-01-A4-17-22-A1-00-09-7C-53-B3-00
   DNS Servers.....................: ::
                                     0.0.0.0
```

Укажите IP-адрес данного компьютера.

```
   IPv4 Address....................: 192.168.0.101
```

Укажите маску подсети данного компьютера.

```
 Subnet Mask.....................: 255.255.255.0
```

Укажите основной шлюз данного компьютера.

```
  Default Gateway.................: ::
                                    192.168.0.1
```

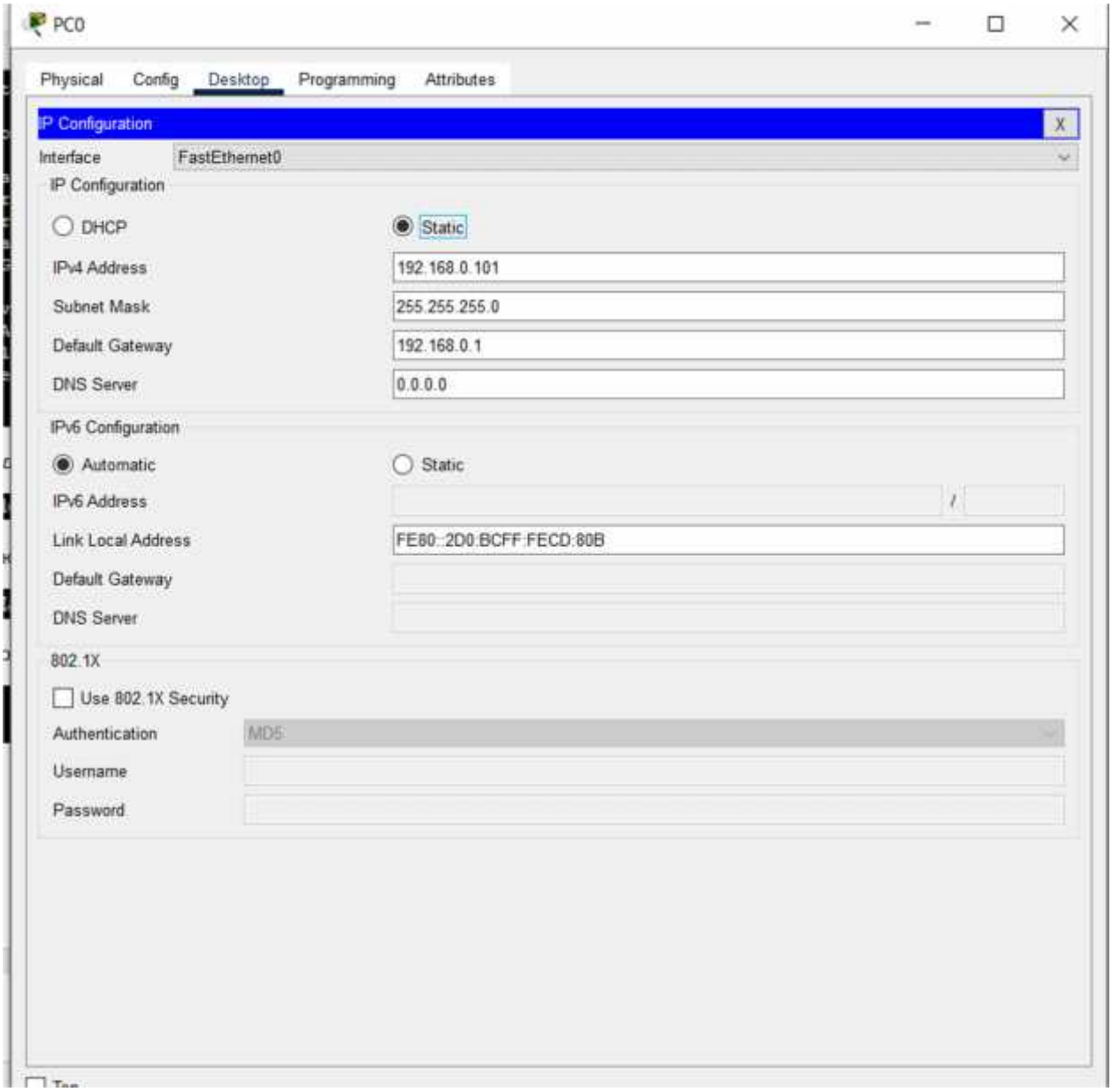
Каковы серверы DNS для данного компьютера?

```
DNS Servers.....................: ::
                                   0.0.0.0
```

Какой IP-адрес у DHCP-сервера?

```
DHCP Servers....................: 192.168.0.1
```

Настройка PC-B вручную



Откройте окно командной строки и отправьте ping-запрос на адрес только что настроенного компьютера PC-B. Успешно ли выполнен эхо-запрос?

Да, успешно

```
C:\>ping 192.168.1.11

Pinging 192.168.1.11 with 32 bytes of data:

Reply from 192.168.1.11: bytes=32 time<1ms TTL=128
Reply from 192.168.1.11: bytes=32 time<1ms TTL=128
Reply from 192.168.1.11: bytes=32 time<1ms TTL=128
Reply from 192.168.1.11: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

С помощью утилиты ping проверьте связь компьютера PC-B с IP-адресом PC-A. Успешно ли выполнен эхо-запрос?

Да, успешно

```
Pinging 192.168.0.100 with 32 bytes of data:

Reply from 192.168.0.100: bytes=32 time<1ms TTL=128
Reply from 192.168.0.100: bytes=32 time<1ms TTL=128
Reply from 192.168.0.100: bytes=32 time<1ms TTL=128
Reply from 192.168.0.100: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

```
Pinging 192.168.0.101 with 32 bytes of data:

Reply from 192.168.0.101: bytes=32 time<1ms TTL=128
Reply from 192.168.0.101: bytes=32 time=1ms TTL=128
Reply from 192.168.0.101: bytes=32 time<1ms TTL=128
Reply from 192.168.0.101: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.101:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```