Создание макета сети в Cisco Packet Tracer

КУРС: АДМИНИСТРИРОВАНИЕ КОМПЬЮТЕРНЫХ СЕТЕЙ

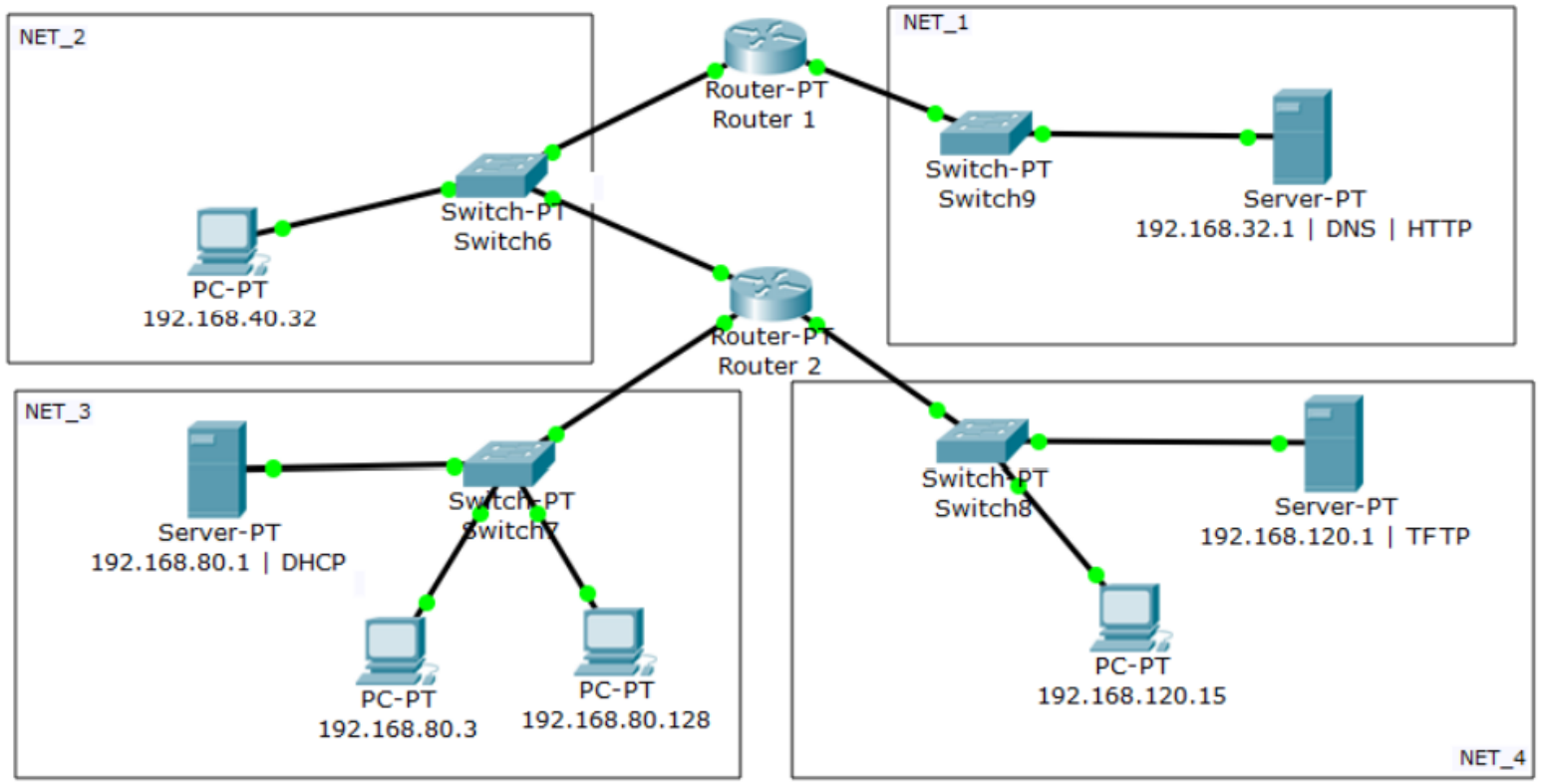
СТУДЕНТ: ЕРНИЯЗОВ ТИМУР ЕРТЛЕУЕВИЧ

ГРУППА: 13541/2

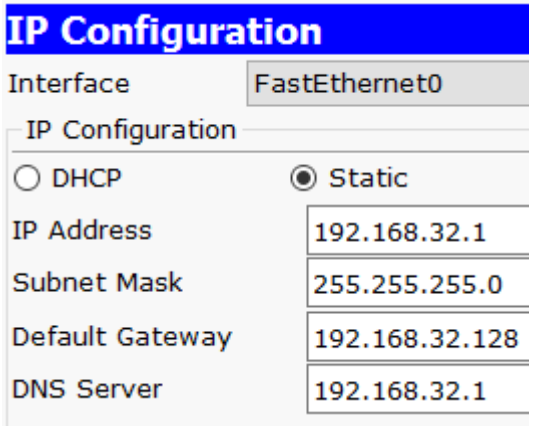
Цель работы

- Ознакомиться с Cisco Packet Tracer.
- Построить в Packet Tracer компьютерную сеть.
- Настроить сервисы DNS, DHCP, TFTP.
- Протестировать сеть.

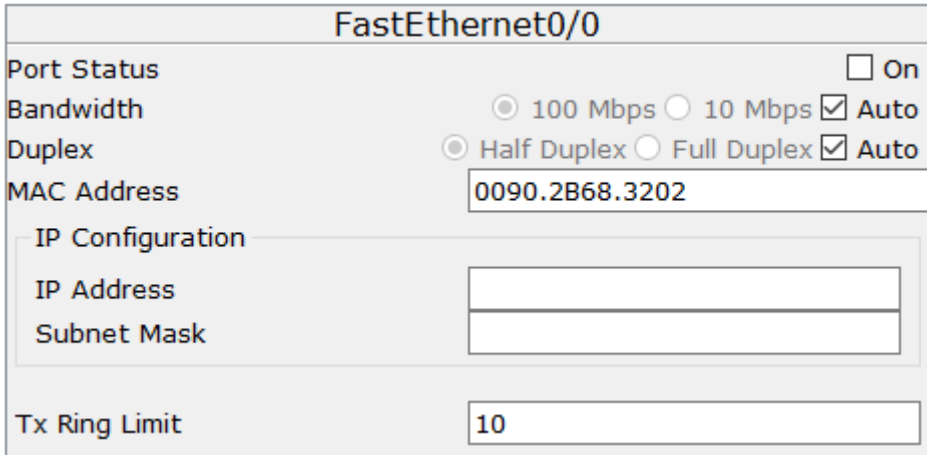
Схема компьютерной сети

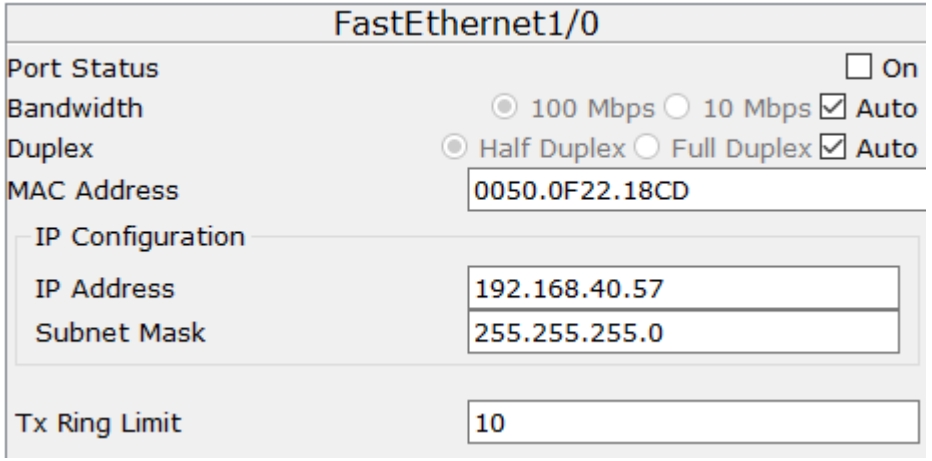


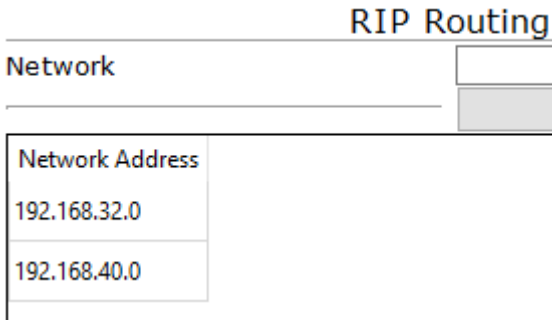
Настройка подсети NET_1



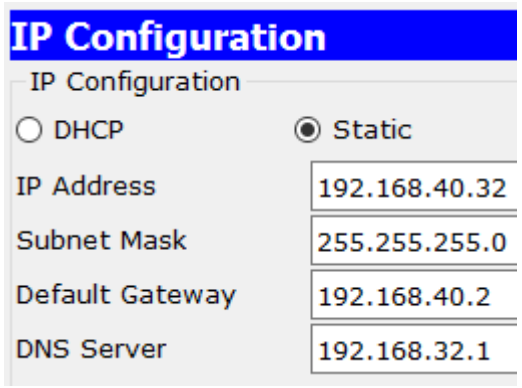
Настройка роутера 1



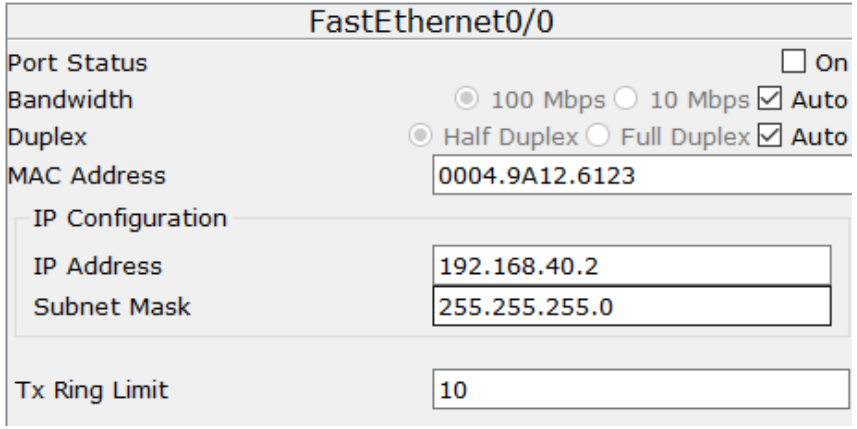


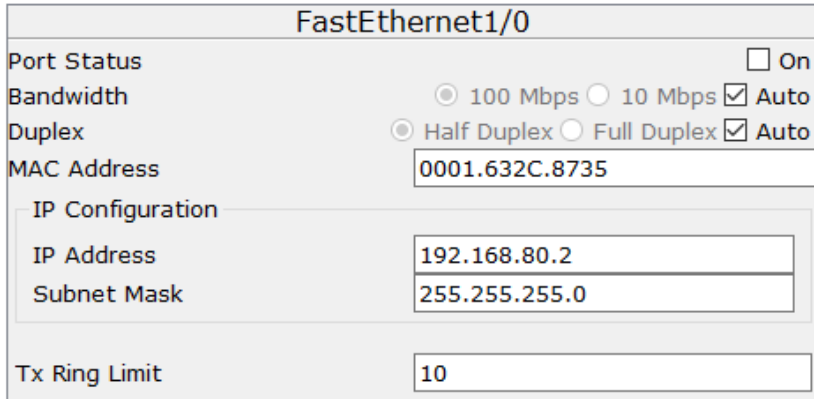


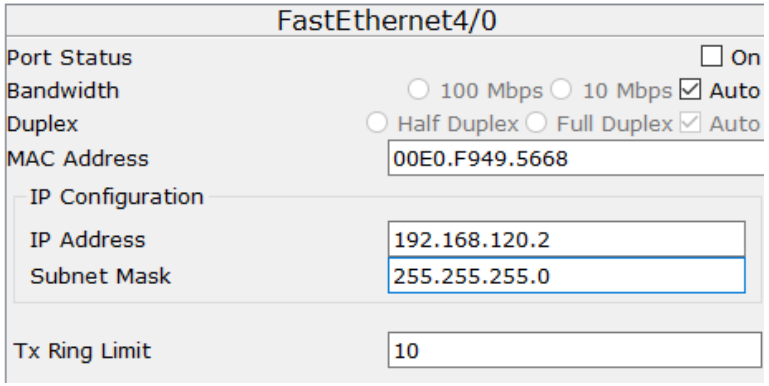
Настройка подсети NET_2

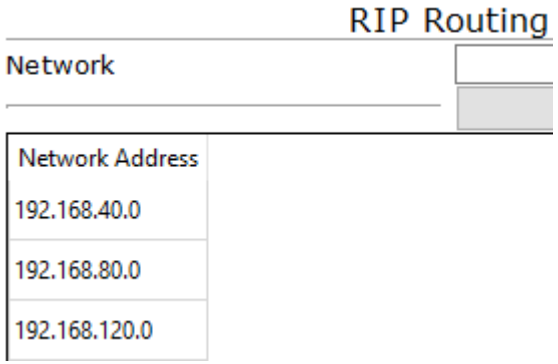


Настройка роутера 2

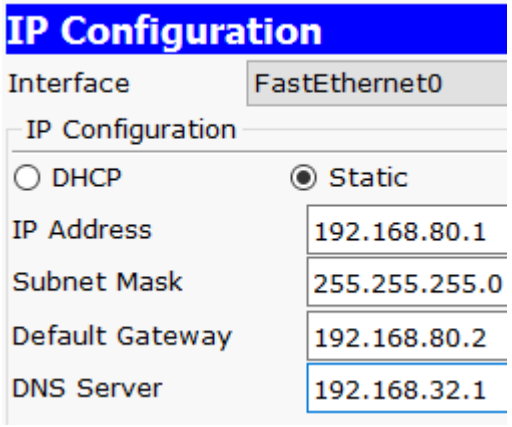


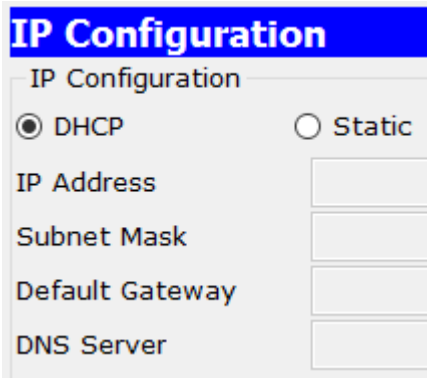


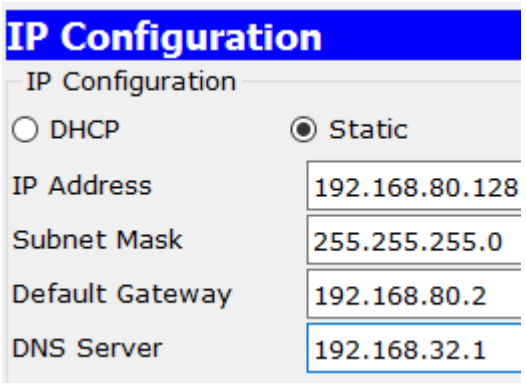




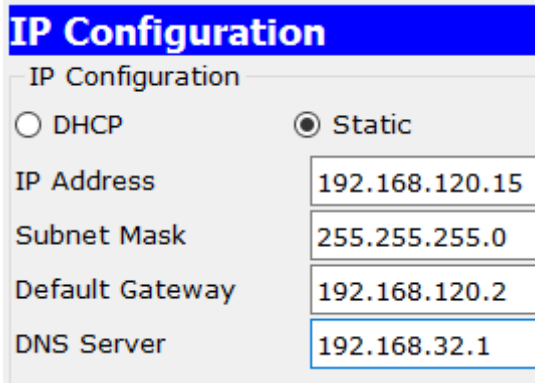
Настройка подсети NET_3

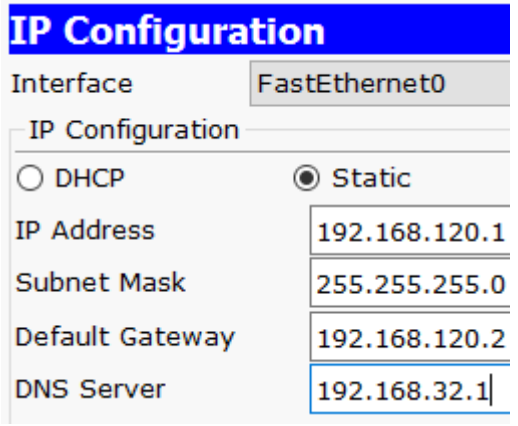




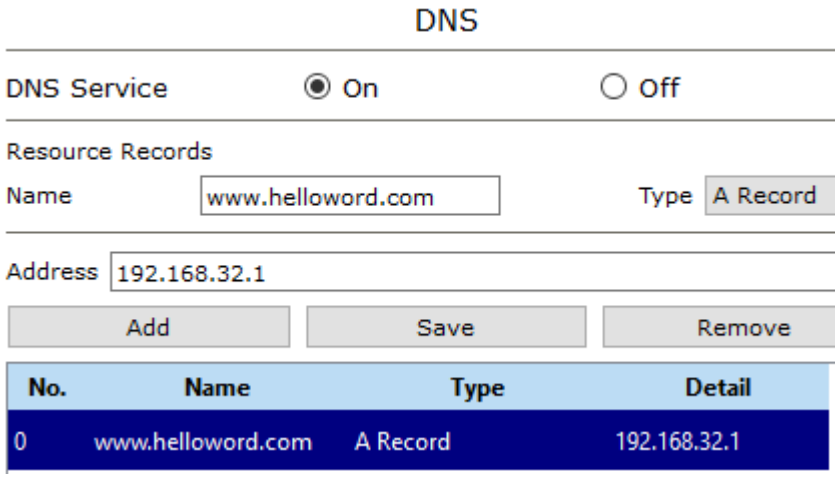


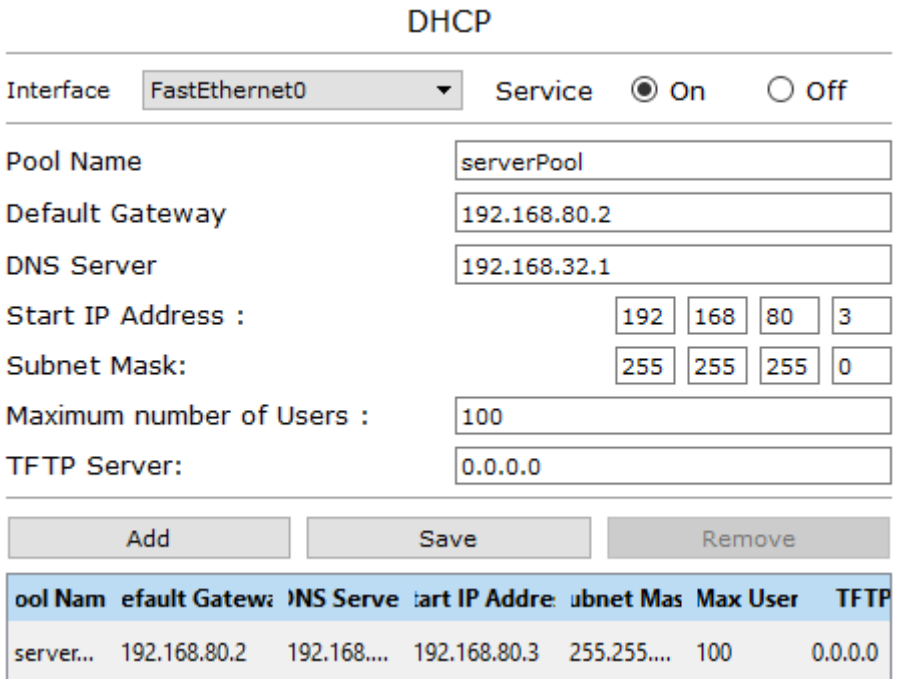
Настройка NET_4



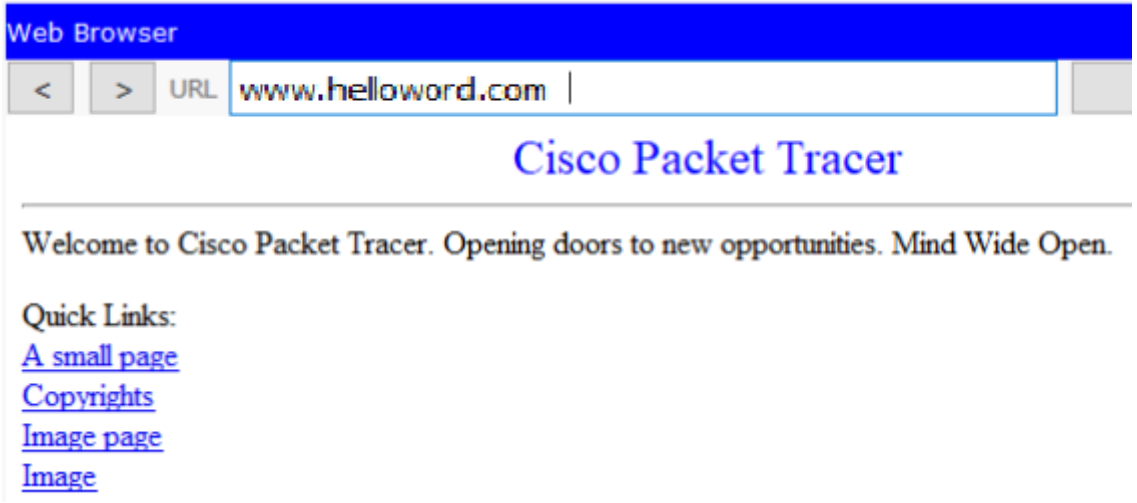


Настройка сервисов





Тестирование




```
C:\>ipconfig
FastEthernet0 Connection:(default port)
   Link-local IPv6 Address.....: FE80::2E0:A3FF:FEA3:7605
   IP Address.....: 192.168.40.32
   Subnet Mask.....: 255.255.255.0
   Default Gateway.....: 192.168.40.2

C:\>ping 192.168.120.15
Pinging 192.168.120.15 with 32 bytes of data:
Reply from 192.168.120.15: bytes=32 time=1ms TTL=127
Reply from 192.168.120.15: bytes=32 time=1ms TTL=127
Reply from 192.168.120.15: bytes=32 time=1ms TTL=127
Reply from 192.168.120.15: bytes=32 time<1ms TTL=127

Ping statistics for 192.168.120.15:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

Выводы

Cisco Packet Tracer представляет собой удобный инструмент для построения макетов сетей, предоставляя множество инструментов для настройки узлов сети. Большим преимуществом можно считать множество готовых решений, особенно в плане реализации популярных сетевых сервисов.