# Создание макета сети в Cisco Packet Tracer

КУРС: АДМИНИСТРИРОВАНИЕ КОМПЬЮТЕРНЫХ СЕТЕЙ

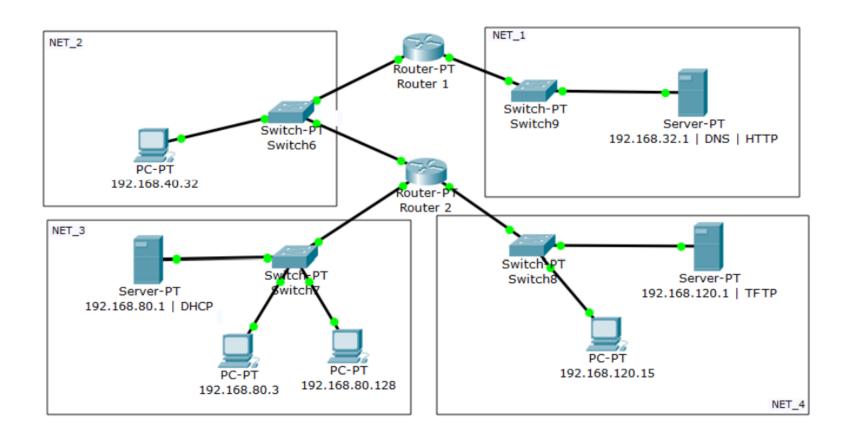
СТУДЕНТ: ВОЛКОВА М.Д.

ГРУППА: 13541/2

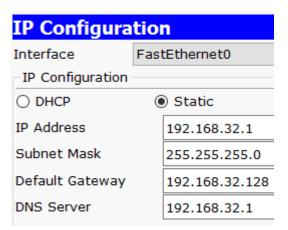
### Цель работы

- 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



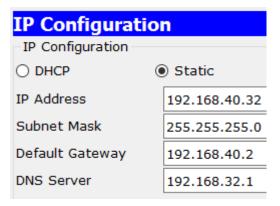
# Настройка роутера 1

FastEthernet0/0	
Port Status	□ On
Bandwidth	100 Mbps ○ 10 Mbps ☑ Auto
Duplex	Half Duplex ○ Full Duplex ☑ Auto
MAC Address	0090.2B68.3202
IP Configuration	
IP Address	
Subnet Mask	
Tx Ring Limit	10

FastEthernet1/0	
Port Status	□ On
Bandwidth	100 Mbps ○ 10 Mbps ☑ Auto
Duplex	Half Duplex ○ Full Duplex ☑ Auto
MAC Address	0050.0F22.18CD
IP Configuration	
IP Address	192.168.40.57
Subnet Mask	255.255.255.0
Tx Ring Limit	10

	RIP Routing
Network	
Network Address	
192.168.32.0	
192.168.40.0	

## Настройка подсети NET\_2



# Настройка роутера 2

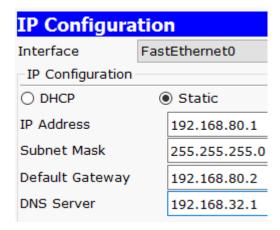
FastEthernet0/0	
Port Status	□ On
Bandwidth	100 Mbps ○ 10 Mbps ☑ Auto
Duplex	Half Duplex  Full Duplex  Auto
MAC Address	0004.9A12.6123
IP Configuration	
IP Address	192.168.40.2
Subnet Mask	255.255.255.0
Tx Ring Limit	10

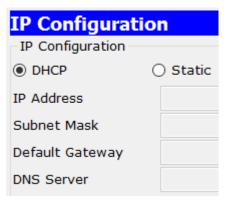
FastEthernet4/0	
Port Status	□ On
Bandwidth	○ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex	○ Half Duplex ○ Full Duplex ☑ Auto
MAC Address	00E0.F949.5668
IP Configuration	
IP Address	192.168.120.2
Subnet Mask	255.255.255.0
Tx Ring Limit	10

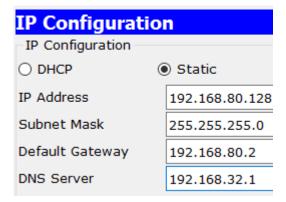
FastEthernet1/0	
Port Status	□ On
Bandwidth	100 Mbps ○ 10 Mbps ☑ Auto
Duplex	Half Duplex  Full Duplex  Auto
MAC Address	0001.632C.8735
IP Configuration	<u> </u>
IP Address	192.168.80.2
Subnet Mask	255.255.255.0
Tx Ring Limit	10

	RIP Routing
Network	
Network Address	
192.168.40.0	
192.168.80.0	
192.168.120.0	

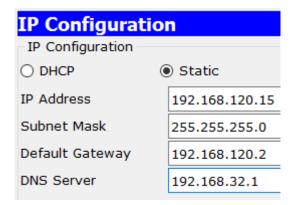
## Настройка подсети NET\_3

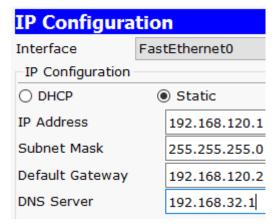




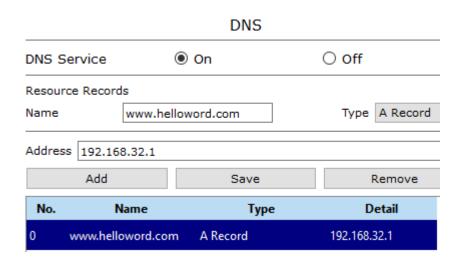


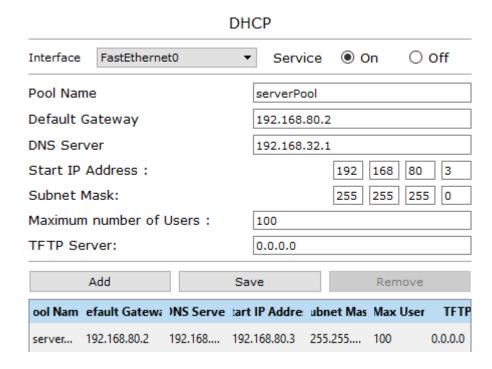
## Настройка NET\_4





## Настройка сервисов





#### Тестирование



```
C:\>ipconfig
FastEthernetO Connection:(default port)
  Link-local IPv6 Address ...... FE80::2E0:A3FF:FEA3:7605
  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 * Oms, Maximum * 1ms, Average * Oms
```

#### 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.