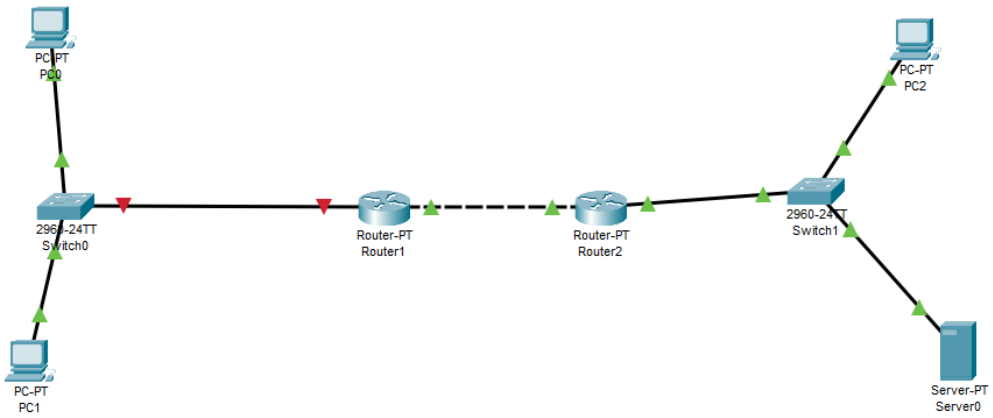
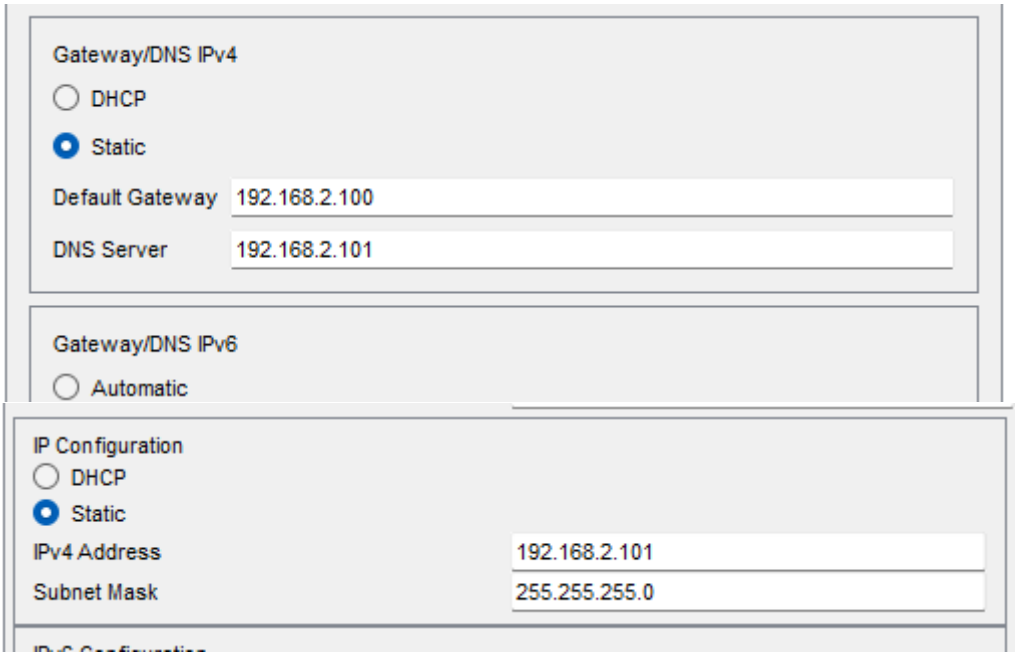
Практическая работа 25 – Автоматизированная сеть с использованием DHCP + DNS + Маршрутизация

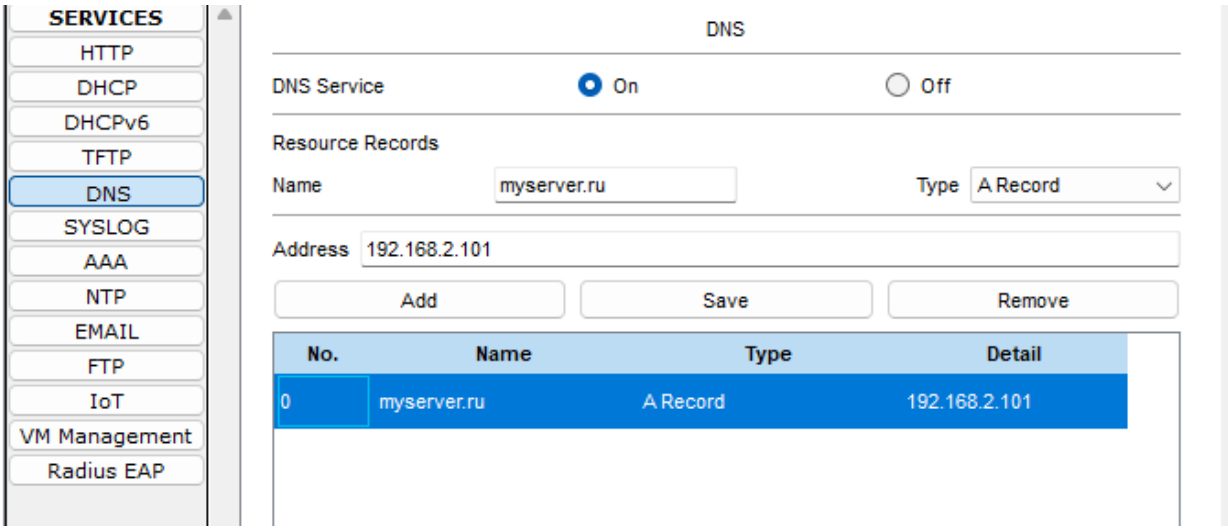
1. Создаю сеть



2. Настраиваю сервер



3. DNS



4. Настройка роутера0

```
Router(config)#ip dhcp excluded-address 192.168.1.100
Router(config)#ip dhcp pool net1
Router(dhcp-config)#net 192.168.0.1 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.100
Router(dhcp-config)#dns-server 192.168.2.101
Router(dhcp-config)#inf fa0/0
                    ^
% Invalid input detected at '^' marker.

Router(dhcp-config)#int fa0/0
Router(config-if)#ip address 192.168.0.1 255.255.255.0
Router(config-if)#no sh

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed stat

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthe

Router(config-if)#int fa1/0
Router(config-if)#ip address 192.168.3.1 255.255.255.0
Router(config-if)#no sh
Router(config-if)#ro rip
Router(config-router)#net 192.168.1.0
Router(config-router)#net 192.168.3.0
```

5. Записываю в память роутера настройку

```
Router#write memory
Building configuration...
[OK]
Router#
```

6. Настраиваю роутер1

```
Router(config)#ip dhcp excluded-address 192.168.2.100 192.168.2.101
Router(config)#ip dhcp pool net2
Router(dhcp-config)#net 192.168.2.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.2.100
Router(dhcp-config)#dns-server 192.168.2.101
Router(dhcp-config)#int fa0/0
Router(config-if)#ip ad 192.168.2.100 255.255.255.0
Router(config-if)#no sh
Router(config-if)#int fa1/0
Router(config-if)#ip ad 192.168.3.2 255.255.255.0
Router(config-if)#no sh
Router(config-if)#ro rip
Router(config-router)#net 192.168.2.0
Router(config-router)#net 192.168.3.0
```

7. Пингуем с PC0 на PC2

```
C:\>ping 192.168.2.1

Pinging 192.168.2.1 with 32 bytes of data:

Request timed out.
Reply from 192.168.2.1: bytes=32 time<1ms TTL=126
Reply from 192.168.2.1: bytes=32 time=1ms TTL=126
Reply from 192.168.2.1: bytes=32 time<1ms TTL=126

Ping statistics for 192.168.2.1:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

8. Сервер