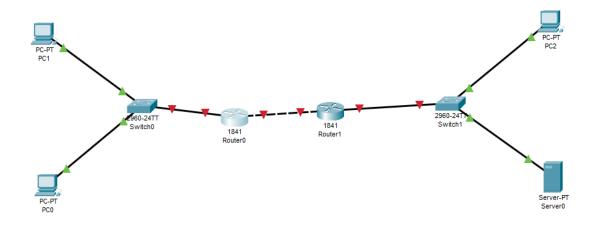
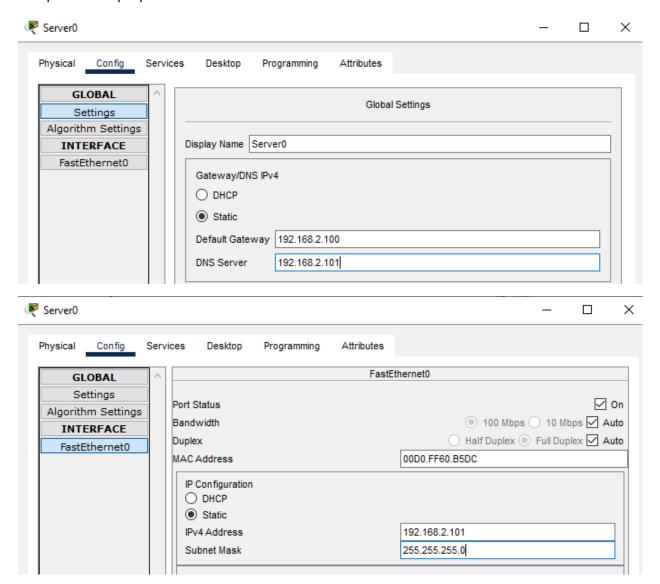
Компьютерные сети 25 — Автоматизированная сеть с использованием DHCP + DNS + Маршрутизация

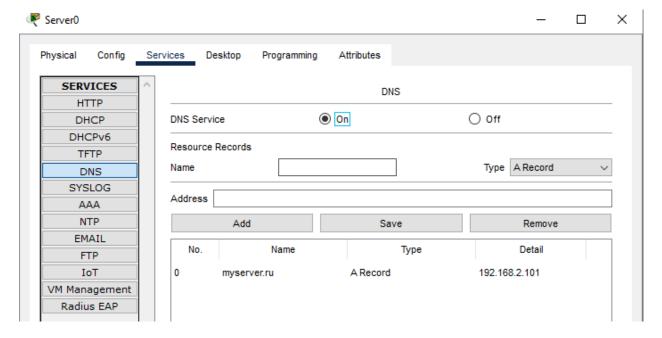
Строим сеть



У всех ПК ставим DHCP

Настраиваем сервер





Конфигурируем Роутер0

```
Router(config) #ip dhcp excluded-address 192.168.1.100
Router(config) #ip dhcp pool net1
Router(dhcp-config) #net 192.168.1.0 255.255.255.0
Router(dhcp-config) #default-router 192.168.1.100
Router(dhcp-config) #dns-server 192.168.2.101
Router(dhcp-config)#int fa0/0
Router(config-if) #ip address 192.168.1.100 255.255.255.0
Router(config-if) #no sh
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)#
Router(config-if) #int fa0/1
Router(config-if) #ip address 192.168.3.1 255.255.255.0
Router(config-if) #no sh
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
Router(config-if) #ro rip
Router(config-router) #net 192.168.1.0
Router(config-router) #net 192.168.3.0
```

Сохраняем

```
Router#wr mem
Building configuration...
[OK]
```

Конфигурируем 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)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if) #int fa0/1
Router(config-if) #ip ad 192.168.3.2 255.255.255.0
Router(config-if) #no sh
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
Router(config-if) #ro rip
Router(config-router) #net 192.168.2.0
Router(config-router) #net 192.168.3.0
Router#wr mem
Building configuration...
[OK]
```

С РСО пингуем РС1

```
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<lms TTL=126

Reply from 192.168.2.1: bytes=32 time<lms TTL=126

Reply from 192.168.2.1: bytes=32 time<lms 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 = 0ms, Average = 0ms
```

Подключаемся к серверу

