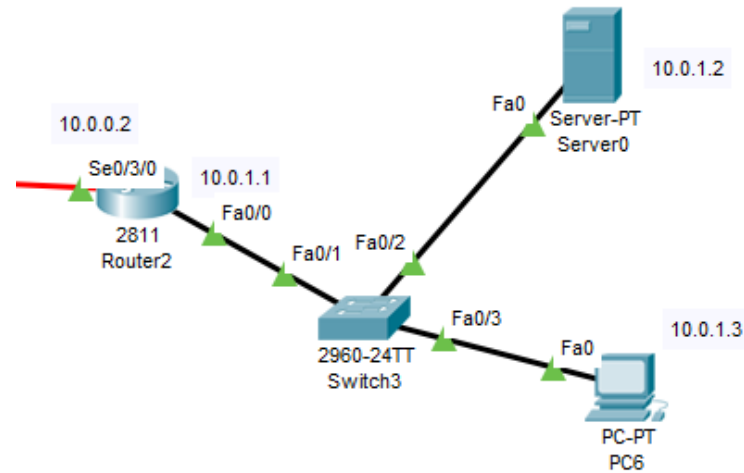


Port Address Translation



Раздаём айпишники.

PAT работает почти так же, как и динамик.

Тоже нужен аксесс лист.

Но вместо пула "наружу" мы теперь будем выпускать наши компьютеры через айпишник интерфейса Router2 fa 0/0 10.0.1.1 и через какой-нибудь порт.

Подробнее смотрите мудл.

```
Router(config)#int se 0/3/0
Router(config-if)#ip nat inside
Router(config-if)#exit
Router(config)#int fa 0/0
Router(config-if)#ip nat o
Router(config-if)#ip nat outside
Router(config-if)#exit
```

Шаг первый. Как
обычно, интерфейсы.

РАТ.

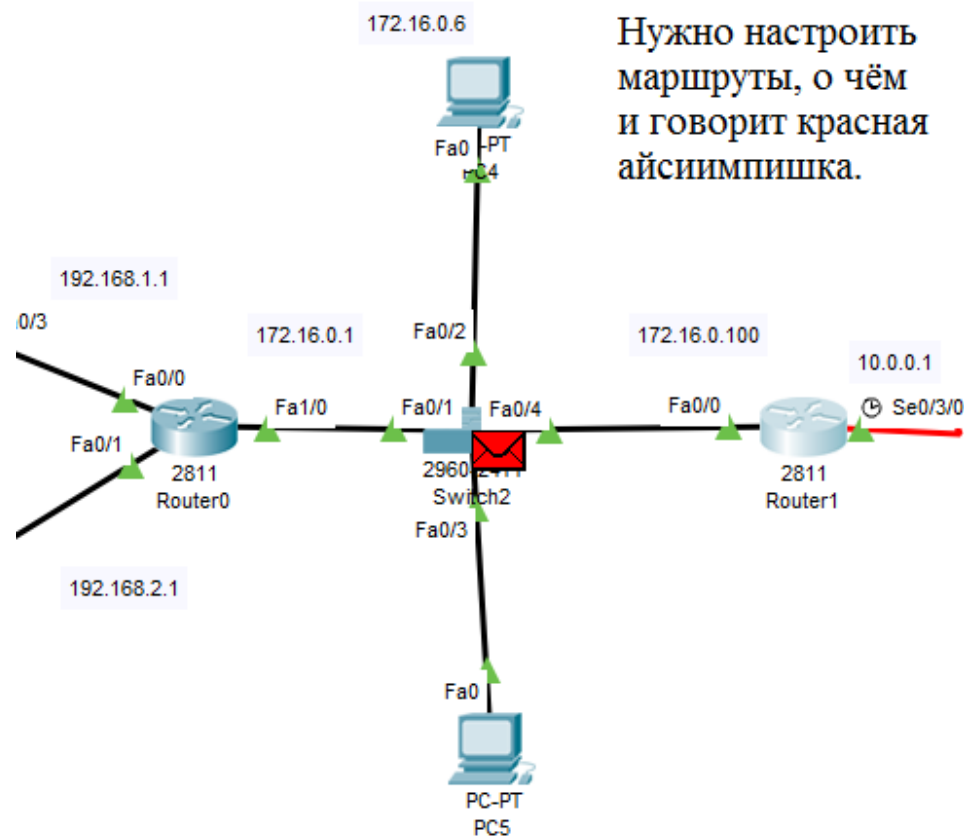
```
Router(config)#ip access-list extended 101
Router(config-ext-nacl)#per
Router(config-ext-nacl)#permit ip 10.0.0.0 0.0.0.255 ?
  A.B.C.D Destination address
  any      Any destination host
  host     A single destination host
Router(config-ext-nacl)#permit ip 10.0.0.0 0.0.0.255 any ?
  dscp      Match packets with given dscp value
  precedence Match packets with given precedence value
  <cr>
Router(config-ext-nacl)#permit ip 10.0.0.0 0.0.0.255 any
Router(config-ext-nacl)#
```

Шаг второй,
создание
необходимого
аксес-листа.

```
Router(config)#ip nat inside source list 101 interface fa 0/0
overload
```

Шаг третий.
Запуск РАТ с
созданным
аксес-листом.

```
Router(config)#ip route 0.0.0.0 0.0.0.0 10.0.0.1
```



Нужно настроить маршруты, о чём и говорит красная айсиимпишка.

Physical Config CLI Simulation

IOS Command Line Interface

```

62720K bytes of ATA CompactFlash (Read/Write)
Cisco IOS Software, 2800 Software (C2800NM-ADVIPSERVICESK9-M),
Version 12.4(15)T1, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2007 by Cisco Systems, Inc.
Compiled Wed 18-Jul-07 06:21 by pt_rel_team

Press RETURN to get started!

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0
changed state to up

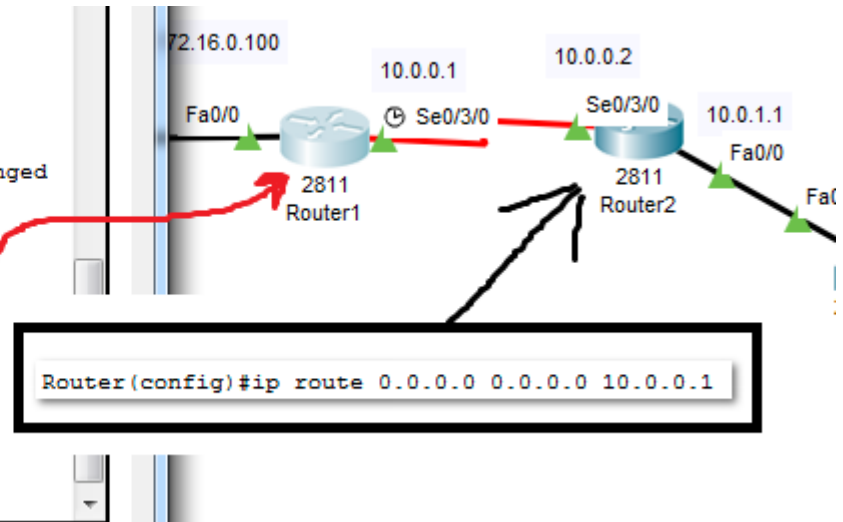
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up

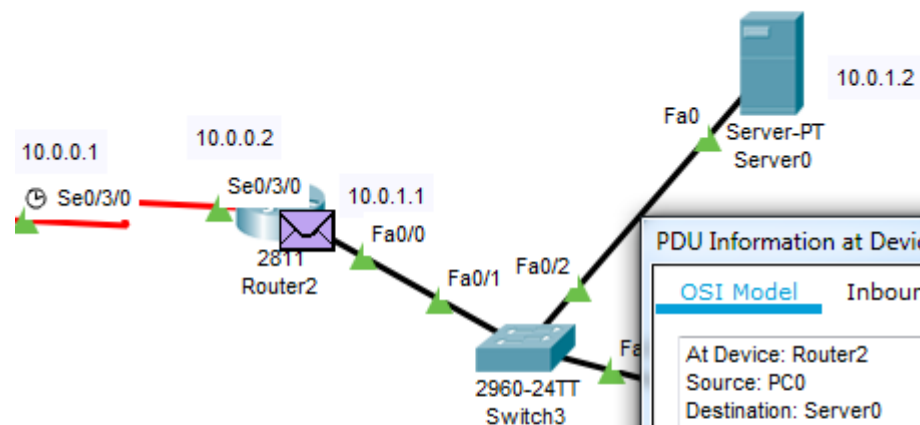
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, ch
state to up

Router>
Router>
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip rout
Router(config)#ip route 192.168.1.0 255.255.255.0 172.16.0.1
Router(config)#ip route 192.168.2.0 255.255.255.0 172.16.0.1
Router(config)#
  
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0,  
changed state to up  
  
%LINK-5-CHANGED: Interface Serial0/3/0, changed state to up  
  
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/3/0, changed  
state to up
```

```
Router>  
Router>  
Router>en  
Router#conf t  
Enter configuration commands, one per line. End with CNTL/Z.  
Router(config)#ip rout  
Router(config)#ip route 192.168.1.0 255.255.255.0 172.16.0.1  
Router(config)#ip route 192.168.2.0 255.255.255.0 172.16.0.1  
Router(config)#ip route 10.0.1.0 255.255.255.0 10.0.0.2
```





Обратите
внимание, как
меняются
айпишники.

1.928	Switch1	PC1	STP
1.928	Switch1	Router0	STP
1.928	PC0	Switch1	ICMP
1.929	Switch1	Router0	ICMP
1.930	Router0	Switch2	ICMP
1.931	Switch2	Router1	ICMP
1.932	Router1	Router2	ICMP

Reset Simulation

☒ Constant Delay

PDU Information at Device: Router2

OSI Model

Inbound PDU Details

Outbound PDU Details

At Device: Router2
Source: PC0
Destination: Server0

In Layers

Layer7
Layer6
Layer5
Layer4
Layer 3: IP Header Src. IP: 10.0.0.10, Dest. IP: 10.0.1.2 ICMP Message Type: 8
Layer 2: HDLC Frame HDLC
Layer 1: Port Serial0/3/0

Out Layers

Layer7
Layer6
Layer5
Layer4
Layer 3: IP Header Src. IP: 10.0.1.1, Dest. IP: 10.0.1.2 ICMP Message Type: 8
Layer 2: Ethernet II Header 000C.8591.7301 >> 00E0.B029.3100
Layer 1: Port(s): FastEthernet0/0