

Практическая работа №21

Тема: Технология NAT

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1. Первым делом я приступил к построению сети и настройке айпи адресов и шлюзов сети (Как на PC0, так и на Сервере)
2. И перешёл к настройке роутера

The diagram shows a central router labeled '1841 Router1' connected to two devices: 'PC-PT PC0' on the left and 'Server-PT Server0' on the right. Red arrows indicate the connection paths.

Configuration window for FastEthernet0/0:

- Port Status: ☐ On
- Bandwidth: 100 Mbps (selected), 10 Mbps, ☒ Auto
- Duplex: ☒ Half Duplex, ☐ Full Duplex, ☒ Auto
- MAC Address: 00E0.B077.3C01
- IP Configuration:
 - IPv4 Address: 192.168.0.100
 - Subnet Mask: 255.255.255.0
- Tx Ring Limit: 10

Equivalent IOS Commands:

```
Would you like to enter the initial configuration dialog? (yes/no):  
Press RETURN to get started!
```

3. Потом перешёл в терминал роутера

The diagram shows a central router labeled '1841 Router1' connected to two devices: 'PC-PT PC0' on the left and 'Server-PT Server0' on the right. Red arrows indicate the connection paths.

Router terminal output:

```
Router>enable  
Router#  
Router#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
Router(config)#interface FastEthernet0/0  
Router(config-if)#ip address 192.168.0.100 255.255.255.0  
Router(config-if)#ip address 192.168.0.100 255.255.255.0  
Router(config-if)#  
Router(config-if)#exit  
Router(config)#interface FastEthernet0/1  
Router(config-if)#ip address 30.30.30.100 255.0.0.0  
Router(config-if)#ip address 30.30.30.100 255.0.0.0  
Router(config-if)#  
Router(config-if)#  
Router(config-if)#conf t  
%Invalid hex value  
Router(config)#access-list 1 permit any  
Router(config)#ip nat inside source list 1 interface fa0/1 overload  
Router(config)#int fa0/0  
Router(config-if)#ip nat inside  
Router(config-if)#exit  
Router(config)#int fa0/1  
Router(config-if)#ip nat outside  
Router(config-if)#
```

Buttons: Copy, Paste

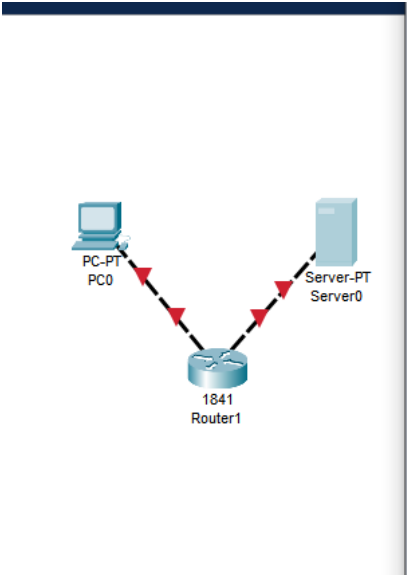
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4. После всех действий я проверил сеть с помощью команды пинг

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Command prompt output:

```
C:\>ping 30.30.30.1  
  
Pinging 30.30.30.1 with 32 bytes of data:  
  
Request timed out.  
Request timed out.  
Request timed out.  
Request timed out.  
  
Ping statistics for 30.30.30.1:  
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss)
```



Algorithm Settings

INTERFACE

FastEthernet0

Display Name Server0

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway 30.30.30.100

DNS Server

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server