

# Урок 04. Настройка роутеров

## 1. Настраиваем интерфейсы

### 1. 1. Настраиваем Router0.

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fa4/0
Router(config-if)#ip address 172.17.0.1 255.255.0.0
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet4/0, changed state to down
Router(config-if)#interface fa5/0
Router(config-if)#ip address 172.16.0.1 255.255.0.0
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet5/0, changed state to down
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_: Configured from console by console

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

### 1. 2. Настраиваем Router1.

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fa4/0
Router(config-if)#ip address 172.17.0.2 255.255.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet4/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet4/0, changed
state to up

Router(config-if)#exit
Router(config)#interface fa5/0
Router(config-if)#ip address 172.18.0.1 255.255.0.0
```

```
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface FastEthernet5/0, changed state to down
Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

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

1. 3. Настраиваем Router2.

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fa4/0
Router(config-if)#ip address 172.18.0.2 255.255.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet4/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet4/0, changed
state to up

Router(config-if)#exit
Router(config)#interface fa5/0
Router(config-if)#ip address 172.16.0.2 255.255.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet5/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet5/0, changed
state to up

Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

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

2. Проверяем. Пингуем с каждого роутера два других.

3. 1. Прописываем маршруты на Router0

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 192.168.2.0 255.255.255.0 172.17.0.2
Router(config)#ip route 192.168.3.0 255.255.255.0 172.16.0.2
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

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

3. 2. Прописываем маршруты на Router1

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 192.168.1.0 255.255.255.0 172.17.0.1
Router(config)#ip route 192.168.3.0 255.255.255.0 172.18.0.2
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

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

3. 3. Прописываем маршруты на Router2

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 192.168.1.0 255.255.255.0 172.16.0.1
Router(config)#ip route 192.168.2.0 255.255.255.0 172.18.0.1
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

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

4. Проверяем. Пингуем всеми компьютерами из каждой сети все компьютеры из других сетей.