Маршрутизатор:

```
Router#show startup-config
Using 3069 bytes
!
version 15.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Router
!
enable password kBv724]xZgE4
!
!
ip dhcp excluded-address 192.168.0.1 192.168.0.39
ip dhcp excluded-address 192.168.0.51 192.168.0.255
ip dhcp excluded-address 192.168.1.1 192.168.1.39
ip dhcp excluded-address 192.168.1.51 192.168.1.255
ip dhcp excluded-address 192.168.2.51 192.168.2.255
ip dhcp excluded-address 192.168.2.1 192.168.2.39
ip dhcp excluded-address 192.168.3.1 192.168.3.39
ip dhcp excluded-address 192.168.3.51 192.168.3.255
!
ip dhcp pool WLAN-10
network 192.168.0.0 255.255.255.0
default-router 192.168.0.1
dns-server 8.8.8.8
domain-name wri
ip dhcp pool WLAN-11
network 192.168.1.0 255.255.255.0
default-router 192.168.1.1
dns-server 8.8.8.8
ip dhcp pool WLAN-12
network 192.168.2.0 255.255.255.0
default-router 192.168.2.1
dns-server 8.8.8.8
ip dhcp pool WLAN-13
network 192.168.3.0 255.255.255.0
default-router 192.168.3.1
dns-server 8.8.0.0
domain-name wri
!
!
!
ip cef
ipv6 unicast-routing
!
no ipv6 cef
!
ipv6 dhcp pool VLAN-10-pool
!
!
```

```
!
spanning-tree mode pvst
!
!
interface GigabitEthernet0/0/0
no ip address
duplex full
speed 1000
ipv6 enable
!
interface GigabitEthernet0/0/0.10
encapsulation dot1Q 10
ip address 192.168.0.1 255.255.255.0
ip access-group 10 in
ip access-group 10 out
ip nat inside
ipv6 address FD10::1/64
ipv6 enable
!
interface GigabitEthernet0/0/0.11
encapsulation dot1Q 11
ip address 192.168.1.1 255.255.255.0
ip access-group 11 out
ip nat inside
ipv6 address FD11::1/64
ipv6 enable
!
interface GigabitEthernet0/0/0.12
encapsulation dot1Q 12
ip address 192.168.2.1 255.255.255.0
ip nat inside
ipv6 address FD12::1/64
ipv6 enable
!
interface GigabitEthernet0/0/0.13
encapsulation dot1Q 13
ip address 192.168.3.1 255.255.255.0
ip access-group 13 out
ip nat inside
ipv6 address FD13::1/64
ipv6 enable
!
interface GigabitEthernet0/0/0.20
encapsulation dot1Q 20 native
ip address 192.168.20.1 255.255.255.0
ip nat inside
ipv6 address FD20::1/64
ipv6 enable
!
interface GigabitEthernet0/0/0.30
encapsulation dot1Q 30
ip address 192.168.30.1 255.255.255.0
```

```
ipv6 address FD30::1/64
ipv6 enable
!
interface GigabitEthernet0/0/1
ip address 6.0.0.2 255.192.0.0
ip nat outside
duplex auto
speed auto
ipv6 address 2A12:1380:F::/64
ipv6 enable
!
interface GigabitEthernet0/0/2
no ip address
duplex auto
speed auto
shutdown
!
interface Vlan1
no ip address
shutdown
!
ip nat pool out_addr_pool 6.0.0.2 6.0.0.2 netmask 255.192.0.0
ip nat inside source list 80 pool out_addr_pool overload
ip classless
!
ip flow-export version 9
!
!
access-list 80 permit 192.168.0.0 0.0.255.255
access-list 20 deny 192.168.0.0 0.0.0.255
access-list 20 deny 192.168.1.0 0.0.0.255
access-list 20 deny 192.168.2.0 0.0.0.255
access-list 20 deny 192.168.3.0 0.0.0.255
access-list 13 remark Access list for VLAN 13
access-list 13 deny 192.168.0.0 0.0.255.255
access-list 13 permit any
!
!
!
end
```

Коммутатор:

```
Switch#show startup-config
Current configuration : 3340 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Switch
!
enable password 28a{A0II]>Dv
!
!
ip dhcp excluded-address 192.168.0.1 192.168.0.10
ip dhcp excluded-address 192.168.0.30 192.168.0.39
ip dhcp excluded-address 192.168.0.51 192.168.0.255
ip dhcp excluded-address 192.168.1.0 192.168.1.10
ip dhcp excluded-address 192.168.1.30 192.168.1.39
ip dhcp excluded-address 192.168.1.51 192.168.1.255
ip dhcp excluded-address 192.168.2.1 192.168.2.10
ip dhcp excluded-address 192.168.2.20 192.168.2.255
!
ip dhcp pool directorate-wired
network 192.168.0.0 255.255.255.0
default-router 192.168.0.1
ip dhcp pool production
network 192.168.1.0 255.255.255.0
default-router 192.168.1.1
ip dhcp pool accounting-sales
network 192.168.2.0 255.255.255.0
default-router 192.168.2.1
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/2
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/3
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/4
switchport access vlan 10
```

```
switchport mode access
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
interface FastEthernet0/7
switchport access vlan 12
switchport mode access
!
interface FastEthernet0/8
switchport access vlan 12
switchport mode access
!
interface FastEthernet0/9
switchport access vlan 12
switchport mode access
!
interface FastEthernet0/10
switchport access vlan 11
switchport mode access
!
interface FastEthernet0/11
switchport access vlan 11
switchport mode access
!
interface FastEthernet0/12
switchport access vlan 11
switchport mode access
!
interface FastEthernet0/13
switchport access vlan 11
switchport mode access
!
interface FastEthernet0/14
switchport access vlan 11
switchport mode access
!
interface FastEthernet0/15
switchport access vlan 11
switchport mode access
!
interface FastEthernet0/16
switchport access vlan 11
switchport mode access
!
interface FastEthernet0/17
switchport trunk native vlan 20
switchport mode trunk
!
interface FastEthernet0/18
!
```

```
interface FastEthernet0/19
!
interface FastEthernet0/20
switchport access vlan 20
switchport trunk allowed vlan 10-13,20,30
switchport mode access
!
interface FastEthernet0/21
switchport access vlan 20
switchport trunk native vlan 20
switchport mode trunk
!
interface FastEthernet0/22
switchport access vlan 20
switchport trunk native vlan 20
switchport mode trunk
!
interface FastEthernet0/23
switchport access vlan 30
switchport mode access
!
interface FastEthernet0/24
switchport trunk native vlan 20
switchport mode trunk
!
interface GigabitEthernet0/1
switchport trunk native vlan 20
switchport mode trunk
duplex full
speed 1000
!
interface GigabitEthernet0/2
switchport trunk native vlan 20
switchport mode trunk
!
interface Vlan1
no ip address
shutdown
!
interface Vlan10
ip address 192.168.0.5 255.255.255.0
!
interface Vlan11
ip address 192.168.1.5 255.255.255.0
!
interface Vlan12
ip address 192.168.2.5 255.255.255.0
!
interface Vlan13
no ip address
!
interface Vlan20
```

```
 no ip address
 !
 interface Vlan30
 no ip address
 !
 !
 !end
```