Динамическая маршрутизация

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Группа: НПИбд-01-18

Настройка OSPF

- Настройка маршрутизатора msk-konkova-zikarimov-gw1
- Настройка маршрутизатора msk-q42-zikarimov-gw1
- Настройка маршрутизирующего коммутатора msk-hostelzikarimov-gw1
- Настройка маршрутизатора sch-sochi-zikarimov-gw1

```
msk-konkova-zikarimov-gwl#sh ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
      N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
      i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route
Gateway of last resort is 198.51.100.1 to network 0.0.0.0
    10.0.0.0/8 is variably subnetted, 18 subnets, 4 masks
        10.128.0.0/24 is directly connected, FastEthernet0/0.3
       10.128.0.1/32 is directly connected, FastEthernet0/0.3
       10.128.1.0/24 is directly connected, FastEthernet0/0.2
       10.128.1.1/32 is directly connected, FastEthernet0/0.2
       10.128.3.0/24 is directly connected, FastEthernet0/0.101
       10.128.3.1/32 is directly connected, FastEthernet0/0.101
       10.128.4.0/24 is directly connected, FastEthernet0/0.102
       10.128.4.1/32 is directly connected, FastEthernet0/0.102
       10.128.5.0/24 is directly connected, FastEthernet0/0.103
       10.128.5.1/32 is directly connected, FastEthernet0/0.103
        10.128.6.0/24 is directly connected, FastEthernet0/0.104
 --More--
```

```
msk-konkova-zikarimov-gw1>en
Password:
msk-konkova-zikarimov-gw1#conf t
Enter configuration commands, one per line. End with
CNTL/Z.
msk-konkova-zikarimov-gw1(config)#router ospf 1
msk-konkova-zikarimov-gw1(config-router)#router-id
10.128.254.1
msk-konkova-zikarimov-gw1(config-router)#network 10.0.0.0
0.255.255.255 area 0
msk-konkova-zikarimov-gw1(config-router)#exit
msk-konkova-zikarimov-gw1(config)#
```

Настройка линка 42-й квартал–Сочи

- Настройка интерфейсов коммутатора provider-zikarimovsw1
- Настройка маршрутизатора msk-q42-zikarimov-gw1
- Настройка коммутатора sch-sochi-zikarimov-sw1
- Настройка маршрутизатора sch-sochi-zikarimov-gw1

```
msk-q42-zikarimov-qw1(config)#interface f0/1.7
msk-q42-zikarimov-qw1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/1.7, changed
state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface
FastEthernet0/1.7, changed state to up
msk-q42-zikarimov-qw1(config-subif)#enc
msk-q42-zikarimov-gw1(config-subif)#encapsulation dot1Q 7
msk-q42-zikarimov-gw1(config-subif)#ip adr
msk-q42-zikarimov-gwl(config-subif)#ip add
msk-q42-zikarimov-gwl(config-subif)#ip address
10.128.255.9 255.255.255.252
msk-q42-zikarimov-gw1(config-subif)#des
msk-q42-zikarimov-gwl(config-subif) #description sochi
msk-q42-zikarimov-gw1(config-subif)#^Z
msk-q42-zikarimov-qw1#
```

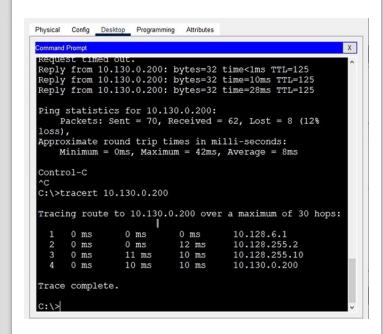
```
provider-zikarimov-swl(config) #vlan 7
provider-zikarimov-swl(config-vlan) #name q42-sochi
provider-zikarimov-swl(config-vlan) #exit
provider-zikarimov-swl(config) #interface vlan7
provider-zikarimov-swl(config-if) #
%LINK-5-CHANGED: Interface Vlan7, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan7,
changed state to up
exit
provider-zikarimov-swl(config) #exit
```

Отследить движение пакета ІСМР

```
C:\>tracert 10.130.0.200
Tracing route to 10.130.0.200 over a maximum of 30 hops:
                                  10.128.6.1
     0 ms
               0 ms
                         0 ms
     0 ms
               3 ms
                        10 ms
                                  10.128.255.6
     10 ms
                                  10.130.0.200
                        0 ms
               10 ms
Trace complete.
C:\>
```

```
provider-zikarimov-sw1(config) #no vlan 6
provider-zikarimov-sw1(config) #
%LINK-3-UPDOWN: Interface Vlan6, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan6, changed state to down

provider-zikarimov-sw1(config) #exit
provider-zikarimov-sw1#
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
provider-zikarimov-sw1#
```



provider-zikarimov-swl(config) #vlan 6
provider-zikarimov-swl(config-vlan) #
%LINK-5-CHANGED: Interface Vlan6, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan6, changed state to up
exit
provider-zikarimov-swl(config) #e

