Лабораторная работа №15

Администрирование локальных сетей

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Настроить динамическую маршрутизацию между территориями организации.

Выполнение лабораторной работы

```
msk-donskava-ioithenko-gw-1(config) #router ospf 1
msk-donskava-ioithenko-gw-1(config-router) #router-id 10.128.254.1
msk-donskava-joithenko-gw-1(config-router)#network 10.0.0.0 0.255.255.255 area 0
msk-donskaya-ioithenko-gw-1(config-router)#^Z
msk-donskava-ioithenko-gw-1#
%SYS-5-CONFIG I: Configured from console by console
msk-donskava-ioithenko-mw-1#sh in osnf
Routing Process "ospf 1" with ID 10.128.254.1
Supports only single TOS(TOSO) routes
Supports opaque LSA
SPF schedule delay 5 secs. Hold time between two SPFs 10 secs
Minimum TSA interval 5 secs. Minimum TSA arrival 1 secs
Number of external LSA 0. Checksum Sum 0x0000000
Number of opaque AS LSA 0. Checksum Sum 0x000000
Number of DCbitless external and opaque AS LSA 0
Number of DoNotAge external and opaque AS LSA 0
Number of areas in this router is 1. 1 normal 0 stub 0 nssa
External flood list length 0
   Area BACKBONE (0)
        Number of interfaces in this area is 8
        Area has no authentication
       SPF algorithm executed 1 times
        Area ranges are
        Number of LSA 1. Checksum Sum 0x00312a
        Number of opacue link LSA 0. Checksum Sum 0x0000000
        Number of DChitless LSA 0
        Number of indication LSA 0
        Number of DoNotAge LSA 0
        Flood list length 0
msk-donskaya-ioithenko-gw-1#sh ip ospf neighbor
msk-donskava-ioithenko-gw-l#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
msk-donskava-ioithenko-gw-1#
```

Рис. 1: Настройка маршрутизатора msk-donskaya-gw-1

```
msk-q42-ioithenko-gw-l(config) frouter) spouter out of 10.128.254.1 on FastEthernet0/1.5 from LOADING to FULL, Loading Done

% Incomplete command.
msk-q42-ioithenko-gw-l(config-router) frouter-id 10.128.254.2
msk-q42-ioithenko-gw-l(config-router) frouter-id 10.128.254.2
msk-q42-ioithenko-gw-l(config-router) frouter-id 10.00.00 0.255.255.255 area 0
msk-q42-ioithenko-gw-l(config-router)
```

Рис. 2: Настройка маршрутизатора msk-q42-gw-1

```
| reas=NULL. | rea
```

Рис. 3: Настройка маршрутизирующего коммутатора msk-hostel-gw-1

Рис. 4: Настройка маршрутизатора sch-sochi-gw-1

```
msk-q42-ioithenko-qw-1#sh ip ospf
 Routing Process "ospf 1" with ID 10.128.254.2
 Supports only single TOS(TOSO) routes
 Supports opaque LSA
 SPF schedule delay 5 secs. Hold time between two SPFs 10 secs
 Minimum LSA interval 5 secs, Minimum LSA arrival 1 secs
 Number of external LSA 0. Checksum Sum 0x0000000
 Number of opaque AS LSA 0. Checksum Sum 0x000000
 Number of DCbitless external and opaque AS LSA 0
 Number of DoNotAge external and opaque AS LSA 0
 Number of areas in this router is 1, 1 normal 0 stub 0 nssa
 External flood list length 0
    Area BACKBONE (0)
        Number of interfaces in this area is 3
        Area has no authentication
        SPF algorithm executed 7 times
        Area ranges are
        Number of ISA 7 Checkens Sum Ov052556
        Number of opaque link LSA 0. Checksum Sum 0x0000000
        Number of DCbitless LSA 0
        Number of indication LSA 0
        Number of DoNotAge LSA 0
        Flood list length 0
msk-q42-ioithenko-qw-1#sh in ospf neighbor
Neighbor ID
                Pri State
                                      Dead Time
                                                Address
                                                                  Interface
10,128,254,1
                      FULL/BDR
                                      00:00:36
                                                  10,128,255,1
                                                                  FastEthernet0/1.5
10 128 254 3
                      FULL/BDB
                                      00:00:31
                                                  10 129 1 2
                                                                  FastEthernet1/0 202
msk-q42-ioithenko-gw-l#sh ip ospf route
& Invalid input detected at 101 marker
msk-q42-ioithenko-gw-1#sh ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, TA - 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 10,128,255,1 to network 0,0,0,0
     10.0.0.0/8 is variably subnetted, 17 subnets, 4 masks
        10.128.0.0/24 [110/2] via 10.128.255.1, 00:02:09, FastEthernet0/1.5
        10.128.1.0/24 [110/2] via 10.128.255.1, 00:02:09, FastEthernet0/1.5
        10.128.3.0/24 [110/2] via 10.128.255.1, 00:02:09, FastEthernet0/1.5
        10.128.4.0/24 [110/2] via 10.128.255.1, 00:02:09, FastEthernet0/1.5
        10.128.5.0/24 [110/2] via 10.128.255.1, 00:02:09, FastEthernet0/1.5
        10.128.6.0/24 [110/2] via 10.128.255.1, 00:02:09, FastEthernet0/1.5
        10.128.255.0/30 is directly connected, FastEthernet0/1.5
        10.128.255.2/32 is directly connected, FastEthernet0/1.5
        10.128.255.4/30 [110/2] via 10.128.255.1. 00:00:29. FastEthernet0/1.5
        10.129.0.0/24 is directly connected, FastEthernet0/0.201
        10.129.0.1/32 is directly connected, FastEthernet0/0.201
        10.129.1.0/24 is directly connected, FastEthernet1/0.202
        10.129.1.1/32 is directly connected, FastEthernet1/0.202
        10.129.128.0/17 [1/0] via 10.129.1.2
        10.129.128.0/24 [110/21 vis 10.129.1.2, 00:02:37, FastEthernet1/0.202
        10.130.0.0/24 [110/3] via 10.128.255.1, 00:00:29, FastEthernet0/1.5
        10.130.1.0/24 [110/3] via 10.128.255.1, 00:00:29, FastEthernet0/1.5
     0.0.0.0/0 [1/0] via 10.128.255.1
```

```
msk-hostel-ioithenko-gw-1#sh ip ospf
 Routing Process "ospf 1" with TD 10.128.254.3
 Supports only single TOS(TOS0) routes
 Supports opaque LSA
 SPF schedule delay 5 secs. Hold time between two SPFs 10 secs
 Minimum LSA interval 5 secs. Minimum LSA arrival 1 secs
 Number of external LSA 0. Checksum Sum 0x0000000
 Number of opaque AS LSA 0. Checksum Sum 0x000000
 Number of DCbitless external and opaque AS LSA 0
 Number of DoNotAge external and opaque AS LSA 0
 Number of areas in this router is 1, 1 normal 0 stub 0 nssa
 External flood list length 0
    Area BACKBONE (0)
        Number of interfaces in this area is 2
        Area has no authentication
        SPF algorithm executed 6 times
        Area ranges are
        Number of LSA 7. Checksum Sum 0x052556
        Number of opaque link LSA 0. Checksum Sum 0x0000000
        Number of DCbitless LSA 0
        Number of indication TSA 0
        Number of DoNotAge LSA 0
        Flood list length 0
msk-hostel-ioithenko-gw-1#sh ip ospf neighbor
                                                                  Interface
Neighbor ID
                Pri State
                                      Dead Time Address
10 128 254 2
                     RIIT.T./DR
                                      00:00:39
                                                  10.129.1.1
msk-hostel-ioithenko-gw-1#sh ip route
Codes: C - connected, S - static, I - IGRP, 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 10.129.1.1 to network 0.0.0.0
     10.0.0.0/8 is variably subnetted, 13 subnets, 2 masks
        10.128.0.0/24 [110/3] via 10.129.1.1, 00:03:48, Vlan202
        10.128.1.0/24 [110/3] via 10.129.1.1, 00:03:48, Vlan202
        10.128.3.0/24 [110/3] via 10.129.1.1, 00:03:48, Vlan202
        10.128.4.0/24 [110/3] via 10.129.1.1, 00:03:48, Vlan202
        10.128.5.0/24 [110/3] via 10.129.1.1, 00:03:48, Vlan202
        10.128.6.0/24 [110/3] via 10.129.1.1, 00:03:48, Vlan202
        10.128.255.0/30 [110/2] via 10.129.1.1, 00:03:58, Vlan202
        10.128.255.4/30 [110/3] via 10.129.1.1, 00:02:08, Vlan202
        10.129.0.0/24 [110/2] via 10.129.1.1, 00:04:16, Vlan202
        10.129.1.0/24 is directly connected, Vlan202
        10.129.128.0/24 is directly connected, Vlan301
        10.130.0.0/24 [110/4] via 10.129.1.1, 00:02:08, Vlan202
        10.130.1.0/24 [110/4] via 10.129.1.1, 00:02:08, Vlan202
    0.0.0.0/0 [1/0] via 10.129.1.1
```

```
sch-sochi-joithenko-my-1#sh in osnf
 Bouting Process "ospf 1" with TD 10 128 254 4
 Supports only single TOS(TOSO) routes
 Supports opaque LSA
 SPF schedule delay 5 secs, Hold time between two SPFs 10 secs
 Minimum LSA interval 5 secs. Minimum LSA arrival 1 secs
 Number of external LSA 0. Checksum Sum 0x000000
 Number of opaque AS LSA 0. Checksum Sum 0x000000
 Number of DCbitless external and opaque AS LSA 0
 Number of DoNotAge external and opaque AS LSA 0
 Number of areas in this router is 1. 1 normal 0 stub 0 ness
 External flood list length 0
    Area BACKBONE (0)
        Number of interfaces in this area is 3
        Area has no authentication
        SPF algorithm executed 3 times
        Area ranges are
        Number of LSA 7. Checksum Sum 0x044121
        Number of onamue link LSA O. Checksum Sum 0x0000000
        Number of DChitless LSA 0
        Number of indication LSA 0
        Number of DoNotAge LSA 0
        Flood list length 0
sch-sochi-ioithenko-gw-1#sh ip ospf neighbor
Neighbor ID
                                                                  Interface
                Pri State
                                      Dead Time Address
10.128.254.1
                 1 FULL/DR
                                      00:00:32
                                                                  FastEthernet0/0.6
                                                  10.128.255.5
sch-sochi-ioithenko-gw-1#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 10.128.255.5 to network 0.0.0.0
     10.0.0.0/8 is variably subnetted, 15 subnets, 3 masks
        10.128.0.0/24 [110/2] via 10.128.255.5, 00:02:50, FastEthernet0/0.6
        10.128.1.0/24 [110/2] via 10.128.255.5, 00:02:50, FastEthernet0/0.6
        10.128.3.0/24 [110/2] via 10.128.255.5, 00:02:50, FastEthernet0/0.6
        10.128.4.0/24 [110/2] via 10.128.255.5. 00:02:50. FastEthernet0/0.6
        10.128.5.0/24 [110/2] via 10.128.255.5. 00:02:50. FastEthernet0/0.6
        10.128.6.0/24 [110/2] via 10.128.255.5, 00:02:50, FastEthernet0/0.6
        10.128.255.0/30 [110/2] via 10.128.255.5, 00:02:50, FastEthernet0/0.6
        10.128.255.4/30 is directly connected, FastEthernet0/0.6
        10.128.255.6/32 is directly connected, FastEthernet0/0.6
        10.129.0.0/24 [110/3] via 10.128.255.5, 00:02:50, FastEthernet0/0.6
        10.129.1.0/24 [110/3] via 10.128.255.5, 00:02:50, FastEthernet0/0.6
        10.130.0.0/24 is directly connected, FastEthernet0/0.401
        10.130.0.1/32 is directly connected. FastEthernet0/0.401
        10.130.1.0/24 is directly connected, FastEthernet0/0.402
        10.130.1.1/32 is directly connected. FastEthernet0/0.402
   0.0.0.0/0 [1/0] via 10.128.255.5
sch-sochi-ioithenko-gw-1#
```

Рис. 7: Проверка состояния протокола OSPF на маршрутизаторе sch-sochi-gw-1

```
provider-ioithenko-sw-1>enable
Password:
Password:
provider-ioithenko-sw-1$conf t
Enter configuration commands, one per line. End with CNTL/2.
provider-ioithenko-sw-1(config) $vlan 7
provider-ioithenko-sw-1(config-vlan) $fname q42-sochi
provider-ioithenko-sw-1(config-vlan) $faxit
provider-ioithenko-sw-1(config-vlan) $fexit
provider-ioithenko-sw-1(config) $interface vlan7
provider-ioithenko-sw-1(config-fi) $
$LINK-5-CHANGED: Interface Vlan7, changed state to up
$LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan7, changed state to up
provider-ioithenko-sw-1(config-if) $fox shutdown
```

Рис. 8: Настройка интерфейсов коммутатора provider-sw-1

```
msk-q42-ioithenko-qw-1config-subif) #encapsulation dotlo 7
msk-q42-ioithenko-qw-1(config-subif) #encapsulation dotlo 7
msk-q42-ioithenko-qw-1config-subif) #encapsulation dotlo 7
msk-q42-ioithenko-qw-1(config-subif) #encapsulation sochi
msk-q42-ioithenko-qw-1(config-subif) #encapsulation sochi
msk-q42-ioithenko-qw-1(config-subif) #encapsulation sochi
msk-q42-ioithenko-qw-1(config-subif) #encapsulation sochi
```

Рис. 9: Настройка маршрутизатора msk-q42-gw-1

```
Password:
sch-sochi-ioithenko-sw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
sch-sochi-ioithenko-sw-1(config)#vlan 7
sch-sochi-ioithenko-sw-1(config-vlan)#name q42-sochi
sch-sochi-ioithenko-sw-1(config-vlan)#exit
sch-sochi-ioithenko-sw-1(config-if)#sch-sochi-ioithenko-sw-1(config-if)#%LINK-5-CHANGED: Interface Vlan7, changed state to up
%LINK-5-CHANGED: Interface Vlan7, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan7, changed state to up
sch-sochi-ioithenko-sw-1(config-if)#no shutdown
sch-sochi-ioithenko-sw-1(config-if)#exit
sch-sochi-ioithenko-sw-1(config-if)#exit
```

Рис. 10: Hacтройка коммутатора sch-sochi-sw-1

```
sch=sochi-rioithenko-gw-lfconfig subif) #encapsulation dot1Q 

$\frac{1}{2}$ sch-sochi-rioithenko-gw-l(config-subif) #elcapsulation dot1Q 

$\frac{1}{2}$ sch-sochi-rioithenko-gw-l(config-subif) #elcapsulation dot1Q 

$\frac{1}{2}$ sch-sochi-rioithenko-gw-l(config-subif) #elcapsulation dot1Q 

$\frac{1}{2}$ sch-sochi-rioithenko-gw-l(config-subif) #exit 

$\frac{1}{2}$ sch-so
```

Рис. 11: Настройка маршрутизатора sch-sochi-gw-1

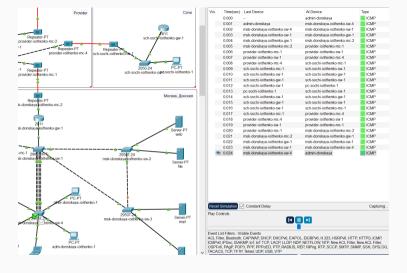


Рис. 12: Движение пакета ІСМР при пересылке с администратора на ПК в Сочи в режиме симуляции

VIC	innegace)	LUSI DEVICE	AL DEVICE	Type
	0.000	-	admin-donskaya	ICMP
	0.001	admin-donskaya	msk-donskaya-ioithenko-sw-4	ICMP
	0.002	msk-donskaya-ioithenko-sw-4	other-donskaya-ioithenko-1	ICMP
	0.002	msk-donskaya-ioithenko-sw-4	msk-donskaya-ioithenko-sw-1	ICMP
	0.003	msk-donskaya-ioithenko-sw-1	msk-donskaya-ioithenko-mc-1	ICMP
	0.003	msk-donskaya-ioithenko-sw-1	msk-donskaya-ioithenko-gw-1	ICMP
	0.003	msk-donskaya-ioithenko-sw-1	msk-donskaya-ioithenko-sw-2	ICMP
	0.003	msk-donskaya-ioithenko-sw-1	msk-donskaya-ioithenko-sw-3	ICMP
	0.004	msk-donskaya-ioithenko-mc-1	msk-pavlovskaya-ioithenko-mc-1	ICMP
	0.004	msk-donskaya-ioithenko-gw-1	msk-donskaya-ioithenko-mc-2	ICMP
	0.004	msk-donskaya-ioithenko-sw-2	msk-donskaya-ioithenko-sw-3	ICMP
	0.005	msk-pavlovskaya-ioithenko-mc-1	msk-pavlovskaya-ioithenko-sw-1	ICMP
	0.005	msk-donskaya-ioithenko-mc-2	provider-ioithenko-mc-1	ICMP
	0.006	msk-pavlovskaya-ioithenko-sw-1	other-pavlovskaya-ioithenko-1	ICMP
	0.006	msk-pavlovskaya-ioithenko-sw-1	admin-pavlovskaya	ICMP
	0.006	provider-ioithenko-mc-1	provider-ioithenko-sw-1	ICMP
	0.007	provider-ioithenko-sw-1	provider-ioithenko-mc-3	ICMP
	0.008	provider-ioithenko-mc-3	msk-q42-ioithenko-mc-1	ICMP
	0.009	msk-q42-ioithenko-mc-1	msk-q42-ioithenko-gw-1	ICMP
	0.010	msk-q42-ioithenko-gw-1	msk-q42-ioithenko-mc-1	ICMP
	0.011	msk-q42-ioithenko-mc-1	provider-ioithenko-mc-3	ICMP
	0.012	provider-ioithenko-mc-3	provider-ioithenko-sw-1	ICMP
	0.013	provider-ioithenko-sw-1	provider-ioithenko-mc-4	ICMP
	0.014	provider-ioithenko-mc-4	sch-sochi-ioithenko-mc-1	ICMP
	0.015	sch-sochi-ioithenko-mc-1	sch-sochi-ioithenko-sw-1	ICMP
	0.016	sch-sochi-ioithenko-sw-1	sch-sochi-ioithenko-gw-1	ICMP
-	_			_

Рис. 13: Движение пакета ІСМР при пересылке с администратора на ПК в Сочи в режиме симуляции

š.	Time(sec)	Last Device	At Device	Туре	^
	0.005	msk-donskaya-ioithenko-sw-1	msk-donskaya-ioithenko-mc-1	ICMP	
	0.006	msk-donskaya-ioithenko-gw-1	msk-donskaya-ioithenko-mc-2	ICMP	
	0.006	msk-donskaya-ioithenko-mc-1	msk-pavlovskaya-ioithenko-mc-1	ICMP	
	0.006	-	msk-donskaya-ioithenko-sw-2	ICMP	
	0.007	msk-donskaya-ioithenko-sw-2	msk-donskaya-ioithenko-sw-3	ICMP	
	0.007	msk-donskaya-ioithenko-mc-2	provider-ioithenko-mc-1	ICMP	
	0.007	msk-pavlovskaya-ioithenko-mc-1	msk-pavlovskaya-ioithenko-sw-1	ICMP	
	0.008	provider-ioithenko-mc-1	provider-ioithenko-sw-1	ICMP	
	0.009	provider-ioithenko-sw-1	provider-ioithenko-mc-4	ICMP	
	0.010	provider-ioithenko-mc-4	sch-sochi-ioithenko-mc-1	ICMP	
	0.011	sch-sochi-ioithenko-mc-1	sch-sochi-ioithenko-sw-1	ICMP	
	0.012	sch-sochi-ioithenko-sw-1	sch-sochi-ioithenko-gw-1	ICMP	
	0.013	sch-sochi-ioithenko-gw-1	sch-sochi-ioithenko-sw-1	ICMP	
	0.014	sch-sochi-ioithenko-sw-1	pc-sochi-ioithenko-1	ICMP	
	0.015	pc-sochi-ioithenko-1	sch-sochi-ioithenko-sw-1	ICMP	
	0.016	sch-sochi-ioithenko-sw-1	sch-sochi-ioithenko-gw-1	ICMP	
	0.017	sch-sochi-ioithenko-gw-1	sch-sochi-ioithenko-sw-1	ICMP	
	0.018	sch-sochi-ioithenko-sw-1	sch-sochi-ioithenko-mc-1	ICMP	
	0.019	sch-sochi-ioithenko-mc-1	provider-ioithenko-mc-4	ICMP	
	0.020	provider-ioithenko-mc-4	provider-ioithenko-sw-1	ICMP	
	0.021	provider-ioithenko-sw-1	provider-ioithenko-mc-1	ICMP	
	0.022	provider-ioithenko-mc-1	msk-donskaya-ioithenko-mc-2	ICMP	
	0.023	msk-donskaya-ioithenko-mc-2	msk-donskaya-ioithenko-gw-1	ICMP	
	0.024	msk-donskaya-ioithenko-gw-1	msk-donskaya-ioithenko-sw-1	ICMP	
	0.025	msk-donskaya-ioithenko-sw-1	msk-donskaya-ioithenko-mc-1	ICMP	
	0.025	msk-donskaya-ioithenko-sw-1	msk-donskaya-ioithenko-sw-2	ICMP	
	0.025	msk-donskaya-ioithenko-sw-1	msk-donskaya-ioithenko-sw-3	ICMP	
	0.025	msk-donskaya-ioithenko-sw-1	msk-donskaya-ioithenko-sw-4	ICMP	
(%)	0.026	msk-donskaya-ioithenko-mc-1	msk-pavlovskaya-ioithenko-mc-1	ICMP	
(9)	0.026	msk-donskaya-ioithenko-sw-4	other-donskaya-ioithenko-1	ICMP	
(9)	0.026	msk-donskaya-ioithenko-sw-4	admin-donskaya	ICMP	

Рис. 14: Движение пакета ІСМР при пересылке с администратора на ПК в Сочи в режиме симуляции



В ходе выполнения лабораторной работы я настроила динамическую маршрутизацию между территориями организации.