

Презентация по лабораторной работе №15

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Настроить динамическую маршрутизацию между территориями организации.

1. Настроить динамическую маршрутизацию по протоколу OSPF на маршрутизаторах msk-donskaya-gw-1, msk-q42-gw-1, msk-hostel-gw-1, sch-sochi-gw-1.
2. Настроить связь сети квартала 42 в Москве с сетью филиала в г. Сочи напрямую.
3. В режиме симуляции отследить движение пакета ICMP с ноутбука администратора сети на Донской в Москве (Laptop-PT admin) до компьютера пользователя в филиале в г. Сочи pc-sochi-1.
4. На коммутаторе провайдера отключить временно vlan 6 и в режиме симуляции убедиться в изменении маршрута прохождения пакета ICMP с ноутбука администратора сети на Донской в Москве (Laptop-PT admin) до компьютера пользователя в филиале в г. Сочи pc-sochi-1.
5. На коммутаторе провайдера восстановить vlan 6 и в режиме симуляции убедиться в изменении маршрута прохождения пакета ICMP с ноутбука администратора сети на Донской в Москве (Laptop-PT admin) до компьютера пользователя в филиале в г. Сочи pc-sochi-1.

Выполнение лабораторной работы

msk-donskaya-aiaamunichnikov-gw-1

Physical Config CLI Attributes

IOS Command Line Interface

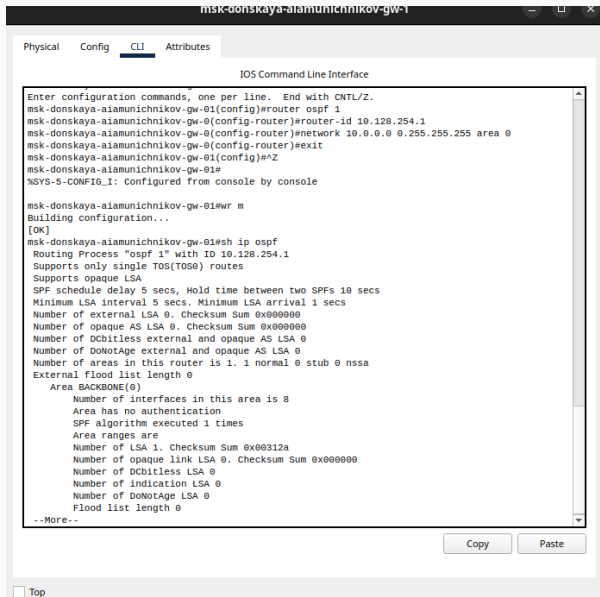
Press RETURN to get started!

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.101, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.102, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.103, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.104, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.4, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.5, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.6, changed state to up

msk-donskaya-aiaamunichnikov-gw-01>
msk-donskaya-aiaamunichnikov-gw-01>en
Password:
msk-donskaya-aiaamunichnikov-gw-01#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-aiaamunichnikov-gw-01(config)#router ospf 1
msk-donskaya-aiaamunichnikov-gw-01(config-router)#router-id 10.128.254.1
msk-donskaya-aiaamunichnikov-gw-01(config-router)#network 10.0.0.0 0.255.255.255 area 0
msk-donskaya-aiaamunichnikov-gw-01(config-router)#exit
msk-donskaya-aiaamunichnikov-gw-01(config)#
```

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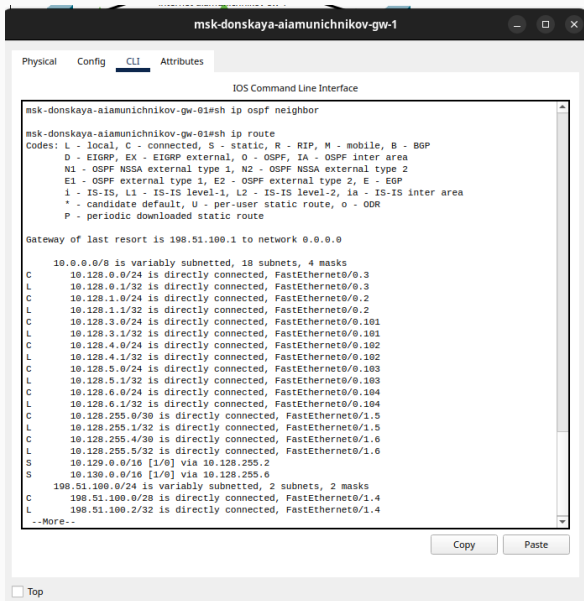
The screenshot shows a network configuration window titled "msk-donskaya-aiaamunichnikov-gw-1". It has tabs for "Physical", "Config", "CLI", and "Attributes", with "CLI" selected. The window displays the "IOS Command Line Interface".

```
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-aiaamunichnikov-gw-01(config)#router ospf 1
msk-donskaya-aiaamunichnikov-gw-01(config-router)#router-id 10.128.254.1
msk-donskaya-aiaamunichnikov-gw-01(config-router)#network 10.0.0.0 0.255.255.255 area 0
msk-donskaya-aiaamunichnikov-gw-01(config-router)#exit
msk-donskaya-aiaamunichnikov-gw-01(config)#^Z
msk-donskaya-aiaamunichnikov-gw-01#
%SYS-5-CONFIG_I: Configured from console by console

msk-donskaya-aiaamunichnikov-gw-01#wr m
Building configuration...
[OK]
msk-donskaya-aiaamunichnikov-gw-01#sh ip ospf
Routing Process "ospf 1" with ID 10.128.254.1
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 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 nssa
External flood list length 0
  Area BACKBONE(0)
    Number of interfaces in this area is 0
    Area has no authentication
    SPF algorithm executed 1 times
    Area ranges are
      Number of LSA 1, Checksum Sum 0x00312a
      Number of opaque link LSA 0, Checksum Sum 0x000000
      Number of DCbitless LSA 0
      Number of indication LSA 0
      Number of DoNotAge LSA 0
      Flood list length 0
--More--
```

At the bottom right of the window are "Copy" and "Paste" buttons. At the bottom left is a "Top" button.

Настройка OSPF




```
msk-q42-aiamunichnikov-gw-1>en
Password:
msk-q42-aiamunichnikov-gw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-q42-aiamunichnikov-gw-1(config)#router ospf 1
msk-q42-aiamunichnikov-gw-1(config-router)#router-id 10.128.254.2
msk-q42-aiamunichnikov-gw-1(config-router)#network 10.0.0.0 0.255.255.255 area 0
msk-q42-aiamunichnikov-gw-1(config-router)#exit
msk-q42-aiamunichnikov-gw-1(config)#
```

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Рис. 4: Настройка маршрутизатора msk-q42-gw-1

```
msk-hostel-aiamunichnikov-gw-1>en
Password:
msk-hostel-aiamunichnikov-gw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-hostel-aiamunichnikov-gw-1(config)#router ospf 1
msk-hostel-aiamunichnikov-gw-1(config-router)#router-id 10.128.254.3
msk-hostel-aiamunichnikov-gw-1(config-router)#network 10.0.0.0 0.255.255.255 area 0
msk-hostel-aiamunichnikov-gw-1(config-router)#exit
00:03:56: %OSPF-5-ADJCHG: Process 1, Nbr 10.128.254.2 on Vlan202 from LOADING to FULL, Loading
Done

msk-hostel-aiamunichnikov-gw-1(config)#
```

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Рис. 5: Настройка маршрутизирующего коммутатора msk-hostel-gw-1

```

Password:

sch-sochi-aiamunichnikov-gw-1>en
Password:
sch-sochi-aiamunichnikov-gw-1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
sch-sochi-aiamunichnikov-gw-1(config)#router ospf 1
sch-sochi-aiamunichnikov-gw-1(config-router)#router-id 10.128.254.4
sch-sochi-aiamunichnikov-gw-1(config-router)#network 10.0.0.0 0.255.255.255 area 0
sch-sochi-aiamunichnikov-gw-1(config-router)#exit
sch-sochi-aiamunichnikov-gw-1(config)#

```

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Рис. 6: Настройка маршрутизатора sch-sochi-gw-1

```
msk-donskaya-aiamunichnikov-gw-01#sh ip ospf neighbor
```

Neighbor ID	Pri	State	Dead Time	Address	Interface
10.128.254.2	1	FULL/BDR	00:00:38	10.128.255.2	FastEthernet0/1.5
10.128.254.4	1	FULL/BDR	00:00:37	10.128.255.6	FastEthernet0/1.6

```
msk-donskaya-aiamunichnikov-gw-01#
```

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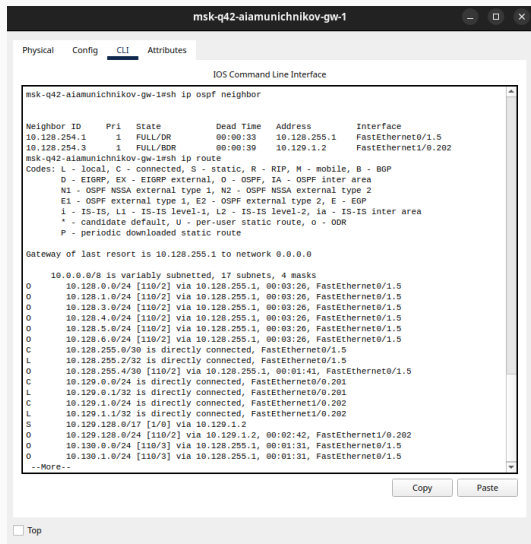
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Рис. 7: Проверка состояния протокола OSPF на маршрутизаторе msk-donskaya-gw-1

```
msk-q42-a1amunichnikov-gw-1#show ip ospf
Routing Process "ospf 1" with ID 10.128.254.2
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 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 nssa
External flood list length 0
  Area BACKBONE(0)
    Number of interfaces in this area is 4
    Area has no authentication
    SPF algorithm executed 3 times
    Area ranges are
    Number of LSA 8. Checksum Sum 0x059f73
    Number of opaque link LSA 0. Checksum Sum 0x000000
    Number of DCbitless LSA 0
    Number of indication LSA 0
    Number of DoNotAge LSA 0
    Flood list length 0

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```

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```
msk-hostel-aiaamunichnikov-gw-1#show ip ospf
Routing Process "ospf 1" with ID 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 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 nssa
External flood list length 0
  Area BACKBONE(0)
    Number of interfaces in this area is 2
    Area has no authentication
    SPF algorithm executed 4 times
    Area ranges are
    Number of LSA 8. Checksum Sum 0x059f73
    Number of opaque link LSA 0. Checksum Sum 0x000000
    Number of DCbitless LSA 0
    Number of indication LSA 0
    Number of DoNotAge LSA 0
    Flood list length 0

--More--
```

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```
msh-hostel-aiamunichnikov-gw-1#show ip ospf neighbor
```

Neighbor ID	Pri	State	Dead Time	Address	Interface
10.128.254.2	1	FULL/BDR	00:00:39	10.129.1.1	Vlan202

```
msh-hostel-aiamunichnikov-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, 14 subnets, 2 masks

O	10.128.0.0/24	[110/3]	via 10.129.1.1, 00:04:40, Vlan202
O	10.128.1.0/24	[110/3]	via 10.129.1.1, 00:04:40, Vlan202
O	10.128.3.0/24	[110/3]	via 10.129.1.1, 00:04:40, Vlan202
O	10.128.4.0/24	[110/3]	via 10.129.1.1, 00:04:40, Vlan202
O	10.128.5.0/24	[110/3]	via 10.129.1.1, 00:04:40, Vlan202
O	10.128.6.0/24	[110/3]	via 10.129.1.1, 00:04:40, Vlan202
O	10.128.255.0/30	[110/2]	via 10.129.1.1, 00:04:40, Vlan202
O	10.128.255.4/30	[110/3]	via 10.129.1.1, 00:01:15, Vlan202
O	10.128.255.8/30	[110/2]	via 10.129.1.1, 00:04:50, Vlan202
O	10.129.0.0/24	[110/2]	via 10.129.1.1, 00:04:50, Vlan202
C	10.129.1.0/24		is directly connected, Vlan202

--More--

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```
sch-sochi-aiaamunichnikov-gw-1#show ip ospf
Routing Process "ospf 1" with ID 10.128.254.4
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 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 nssa
External flood list length 0
  Area BACKBONE(0)
    Number of interfaces in this area is 4
    Area has no authentication
    SPF algorithm executed 6 times
    Area ranges are
    Number of LSA 8. Checksum Sum 0x059777
    Number of opaque link LSA 0. Checksum Sum 0x000000
    Number of DCbitless LSA 0
    Number of indication LSA 0
    Number of DoNotAge LSA 0
    Flood list length 0
--More--
```

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```
sch-sochi-aiaamunichnikov-gw-1#show ip ospf neighbor

Neighbor ID      Pri   State           Dead Time   Address        Interface
10.128.254.1      1    FULL/BDR        00:00:36   10.128.255.5   FastEthernet0/0.6
10.128.254.2      1    FULL/BDR        00:00:36   10.128.255.9   FastEthernet0/0.7

sch-sochi-aiaamunichnikov-gw-1#show 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

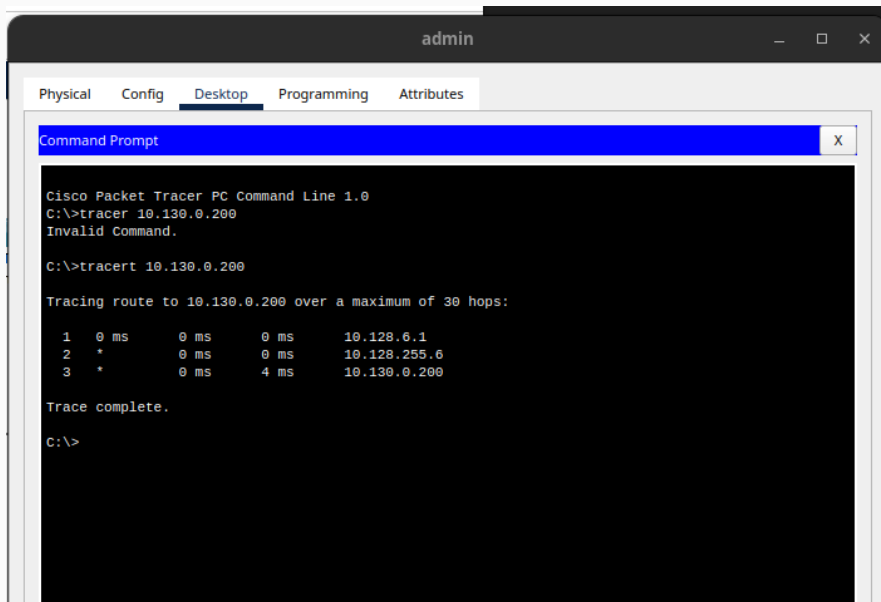
Gateway of last resort is 10.128.255.5 to network 0.0.0.0

    10.0.0.0/8 is variably subnetted, 18 subnets, 3 masks
O       10.128.0.0/24 [110/2] via 10.128.255.5, 00:03:00, FastEthernet0/0.6
O       10.128.1.0/24 [110/2] via 10.128.255.5, 00:03:00, FastEthernet0/0.6
O       10.128.3.0/24 [110/2] via 10.128.255.5, 00:03:00, FastEthernet0/0.6
O       10.128.4.0/24 [110/2] via 10.128.255.5, 00:03:00, FastEthernet0/0.6
O       10.128.5.0/24 [110/2] via 10.128.255.5, 00:03:00, FastEthernet0/0.6
O       10.128.6.0/24 [110/2] via 10.128.255.5, 00:03:00, FastEthernet0/0.6
O       10.128.255.0/30 [110/2] via 10.128.255.5, 00:03:00, FastEthernet0/0.6
O       [110/2] via 10.128.255.9, 00:03:00, FastEthernet0/0.7
C       10.128.255.4/30 is directly connected, FastEthernet0/0.6
L       10.128.255.6/32 is directly connected, FastEthernet0/0.6
C       10.128.255.8/30 is directly connected, FastEthernet0/0.7
--More--
```

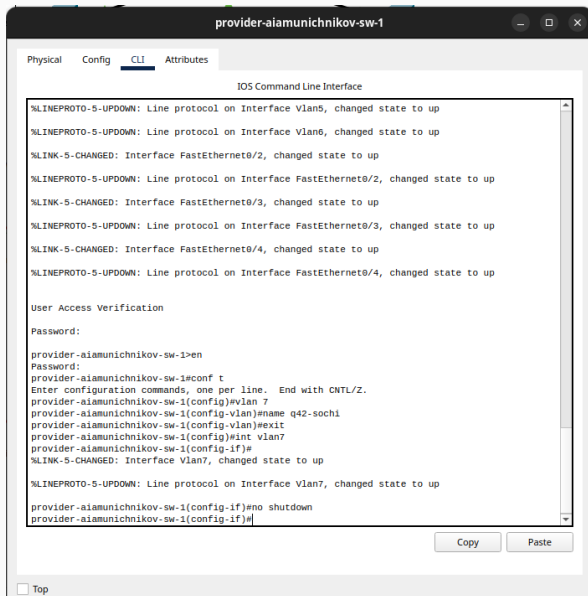
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Рис. 13: Проверка состояния протокола OSPF на маршрутизаторе sch-sochi-gw-1



Настройка линка 42-й квартал–Сочи



Настройка линка 42-й квартал–Сочи

```
msk-q42-aiamunichnikov-gw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-q42-aiamunichnikov-gw-1(config)#int f0/1.7
msk-q42-aiamunichnikov-gw-1(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-aiamunichnikov-gw-1(config-subif)#encapsulation dot1Q 7
msk-q42-aiamunichnikov-gw-1(config-subif)#ip address 10.128.255.9
% Incomplete command.
msk-q42-aiamunichnikov-gw-1(config-subif)#ip address 10.128.255.9 255.255.255.252
msk-q42-aiamunichnikov-gw-1(config-subif)#description sochi
msk-q42-aiamunichnikov-gw-1(config-subif)#exit
msk-q42-aiamunichnikov-gw-1(config)#
```

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Рис. 16: Настройка маршрутизатора msk-q42-gw-1

Настройка линка 42-й квартал–Сочи

```

Password:
sch-sochi-aiamunichnikov-sw-1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
sch-sochi-aiamunichnikov-sw-1(config)#vlan 7
sch-sochi-aiamunichnikov-sw-1(config-vlan)#name q42-sochi
sch-sochi-aiamunichnikov-sw-1(config-vlan)#exit
sch-sochi-aiamunichnikov-sw-1(config)#int vlan7
sch-sochi-aiamunichnikov-sw-1(config-if)#
%LINK-5-CHANGED: Interface Vlan7, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan7, changed state to up

sch-sochi-aiamunichnikov-sw-1(config-if)#no shutdown
sch-sochi-aiamunichnikov-sw-1(config-if)#exit
sch-sochi-aiamunichnikov-sw-1(config)#

```

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Рис. 17: Настройка коммутатора sch-sochi-sw-1

Настройка линка 42-й квартал–Сочи

```
sch-sochi-aiamunichnikov-gw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
sch-sochi-aiamunichnikov-gw-1(config)#int f0/0.7
sch-sochi-aiamunichnikov-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.7, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.7, changed state to up

sch-sochi-aiamunichnikov-gw-1(config-subif)#encapsukation dot1Q 7
                                     ^
% Invalid input detected at '^' marker.

sch-sochi-aiamunichnikov-gw-1(config-subif)#encapsulation dot1Q 7
sch-sochi-aiamunichnikov-gw-1(config-subif)#ip address 10.128.255.10 255.255.255.252
sch-sochi-aiamunichnikov-gw-1(config-subif)#description q42
sch-sochi-aiamunichnikov-gw-1(config-subif)#exit
sch-sochi-aiamunichnikov-gw-1(config)#
```

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Рис. 18: Настройка маршрутизатора sch-sochi-gw-1

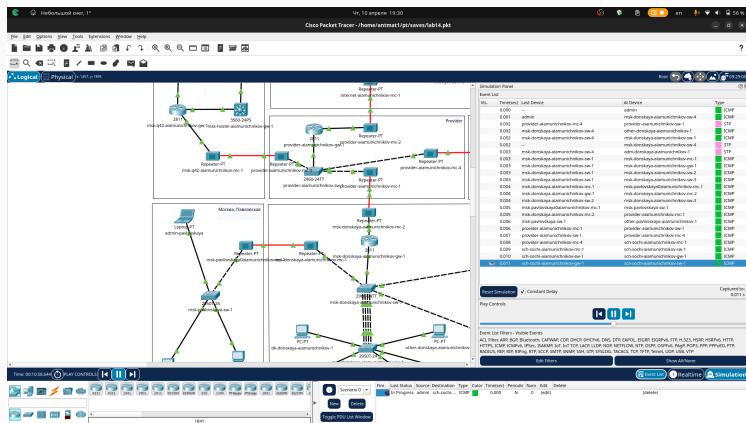


Рис. 19: Движение пакета ICMP при пересылке с администратора на ПК в Сочи в режиме симуляции


Simulation Panel				
Event List				
Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	admin	ICMP
	0.001	admin	msk-donskaya-aiamunichnikov-sw-4	ICMP
	0.001	--	sch-sochi-aiamunichnikov-sw-1	STP
	0.002	sch-sochi-aiamunichnikov-sw-1	sch-sochi-aiamunichnikov-gw-1	STP
	0.002	msk-donskaya-aiamunichnikov-sw-4	msk-donskaya-aiamunichnikov-sw-1	ICMP
	0.003	msk-donskaya-aiamunichnikov-sw-1	msk-donskaya-aiamunichnikov-gw-1	ICMP
	0.004	msk-donskaya-aiamunichnikov-gw-1	msk-donskaya-aiamunichnikov-mc-2	ICMP
	0.005	msk-donskaya-aiamunichnikov-mc-2	provider-aiamunichnikov-mc-1	ICMP
	0.006	provider-aiamunichnikov-mc-1	provider-aiamunichnikov-sw-1	ICMP
	0.007	provider-aiamunichnikov-sw-1	provider-aiamunichnikov-mc-3	ICMP
	0.008	provider-aiamunichnikov-mc-3	msk-q42-aiamunichnikov-mc-1	ICMP
	0.009	msk-q42-aiamunichnikov-mc-1	msk-q42-aiamunichnikov-gw-1	ICMP
	0.010	msk-q42-aiamunichnikov-gw-1	msk-q42-aiamunichnikov-mc-1	ICMP
	0.011	msk-q42-aiamunichnikov-mc-1	provider-aiamunichnikov-mc-3	ICMP
	0.012	provider-aiamunichnikov-mc-3	provider-aiamunichnikov-sw-1	ICMP
	0.013	provider-aiamunichnikov-sw-1	provider-aiamunichnikov-mc-4	ICMP
	0.014	provider-aiamunichnikov-mc-4	sch-sochi-aiamunichnikov-mc-1	ICMP
	0.015	sch-sochi-aiamunichnikov-mc-1	sch-sochi-aiamunichnikov-sw-1	ICMP
	0.016	sch-sochi-aiamunichnikov-sw-1	sch-sochi-aiamunichnikov-gw-1	ICMP
	0.017	sch-sochi-aiamunichnikov-gw-1	sch-sochi-aiamunichnikov-sw-1	ICMP
	0.018	sch-sochi-aiamunichnikov-sw-1	pc-sochi-1	ICMP

Рис. 20: Движение пакета ICMP при пересылке с администратора на ПК в Сочи в режиме симуляции после отключения vlan 6

Simulation Panel				
Event List				
Vis.	Time(sec)	Last Device	At Device	Type
	0.000	--	admin	ICMP
	0.001	admin	msk-donskaya-aiamunichnikov-sw-4	ICMP
	0.002	msk-donskaya-aiamunichnikov-sw-4	other-donskaya-aiamunichnikov-1	ICMP
	0.002	msk-donskaya-aiamunichnikov-sw-4	msk-donskaya-aiamunichnikov-sw-1	ICMP
	0.003	msk-donskaya-aiamunichnikov-sw-1	msk-donskaya-aiamunichnikov-mc-1	ICMP
	0.003	msk-donskaya-aiamunichnikov-sw-1	msk-donskaya-aiamunichnikov-gw-1	ICMP
	0.003	msk-donskaya-aiamunichnikov-sw-1	msk-donskaya-aiamunichnikov-sw-2	ICMP
	0.003	msk-donskaya-aiamunichnikov-sw-1	msk-donskaya-aiamunichnikov-sw-3	ICMP
	0.004	msk-donskaya-aiamunichnikov-mc-1	msk-pavlovskaya0aiamunichnikov-mc-1	ICMP
	0.004	msk-donskaya-aiamunichnikov-gw-1	msk-donskaya-aiamunichnikov-mc-2	ICMP
	0.004	msk-donskaya-aiamunichnikov-sw-2	msk-donskaya-aiamunichnikov-sw-3	ICMP
	0.005	msk-pavlovskaya0aiamunichnikov-mc-1	msk-pavlovskaya-sw-1	ICMP
	0.005	msk-donskaya-aiamunichnikov-mc-2	provider-aiamunichnikov-mc-1	ICMP
	0.006	msk-pavlovskaya-sw-1	other-pavlovskaya-aiamunichnikov-1	ICMP
	0.006	provider-aiamunichnikov-mc-1	provider-aiamunichnikov-sw-1	ICMP
	0.007	provider-aiamunichnikov-sw-1	provider-aiamunichnikov-mc-4	ICMP
	0.008	provider-aiamunichnikov-mc-4	sch-sochi-aiamunichnikov-mc-1	ICMP
	0.009	sch-sochi-aiamunichnikov-mc-1	sch-sochi-aiamunichnikov-sw-1	ICMP
	0.010	sch-sochi-aiamunichnikov-sw-1	sch-sochi-aiamunichnikov-gw-1	ICMP
	0.011	sch-sochi-aiamunichnikov-gw-1	sch-sochi-aiamunichnikov-sw-1	ICMP
	0.012	sch-sochi-aiamunichnikov-sw-1	pc-sochi-1	ICMP

Рис. 21: Движение пакета ICMP при пересылке с администратора на ПК в Сочи в режиме симуляции после подключения vlan 6

Выводы

В результате выполнения лабораторной были приобретены практические навыки по настройке динамической маршрутизации между территориями организации.