

Лабораторная работа №14

Статистическая маршрутизация в Интернете. Настройка

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Содержание

| | | |
|----------|---------------------------------------|-----------|
| 1 | Цель работы | 4 |
| 2 | Выполнение лабораторной работы | 5 |
| 3 | Выводы | 11 |

Список иллюстраций

| | | |
|------|---|----|
| 2.1 | Настройка интерфейсов коммутатора провайдера | 5 |
| 2.2 | Настройка интерфейсов маршрутизатора Донская | 5 |
| 2.3 | Настройка интерфейсов маршрутизатора 1 42-квартал | 6 |
| 2.4 | Настройка интерфейсов коммутатора Сочи | 6 |
| 2.5 | Настройка интерфейсов маршрутизатора Сочи | 6 |
| 2.6 | Настройка интерфейсов маршрутизатора 1 42-й квартал | 7 |
| 2.7 | Настройка интерфейсов коммутатора 1 42-й квартал | 7 |
| 2.8 | Настройка интерфейсов маршрутизатора 2 42-й квартал | 8 |
| 2.9 | Настройка интерфейсов коммутатора 2 42-й квартал | 8 |
| 2.10 | Настройка интерфейсов маршрутизатора Сочи | 9 |
| 2.11 | Настройка интерфейсов коммутатора Сочи | 9 |
| 2.12 | Настройка маршрутизатора Донская | 9 |
| 2.13 | Настройка маршрутизатора 1 42-й квартал | 10 |
| 2.14 | Настройка маршрутизатора Сочи | 10 |
| 2.15 | Настройка маршрутизатора 1 42-квартал | 10 |
| 2.16 | Настройка интерфейсов маршрутизатора 2 42-квартал | 10 |
| 2.17 | NAT на маршрутизатора Донская | 10 |

1 Цель работы

Настроить взаимодействие через сеть провайдера посредством статистической маршрутизации локальной сети организации с сетью основного здания, расположенного в 42-м квартале в Москве, и сетью филиала, расположенного в Сочи.

2 Выполнение лабораторной работы

1) Я настроил связь между территориями.

```
provider-aalushin-sw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
provider-aalushin-sw-1(config)#int f0/3
provider-aalushin-sw-1(config-if)#switchport mode trunk

provider-aalushin-sw-1(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

provider-aalushin-sw-1(config-if)#exit
provider-aalushin-sw-1(config)#int f0/4
provider-aalushin-sw-1(config-if)#switchport mode trunk
provider-aalushin-sw-1(config-if)#exit
provider-aalushin-sw-1(config)#vlan 5
provider-aalushin-sw-1(config-vlan)#name q42
provider-aalushin-sw-1(config-vlan)#exit
provider-aalushin-sw-1(config)#int vlan 5
provider-aalushin-sw-1(config-if)#
%LINK-5-CHANGED: Interface Vlan5, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan5, changed state to up

provider-aalushin-sw-1(config-if)#no shutdown
provider-aalushin-sw-1(config-if)#exit
provider-aalushin-sw-1(config)#vlan 6
provider-aalushin-sw-1(config-vlan)#name sochi
provider-aalushin-sw-1(config-vlan)#exit
provider-aalushin-sw-1(config)#int vlan 6
provider-aalushin-sw-1(config-if)#
%LINK-5-CHANGED: Interface Vlan6, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan6, changed state to up
provider-aalushin-sw-1(config-if)#
```

Рис. 2.1: Настройка интерфейсов коммутатора провайдера

```
msk-donskaya-aalushin-gw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-aalushin-gw-1(config)#int f0/1.5
msk-donskaya-aalushin-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/1.5, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.5, changed state to up

msk-donskaya-aalushin-gw-1(config-subif)#encapsulation dot1Q 5
msk-donskaya-aalushin-gw-1(config-subif)#ip address 10.128.255.1 255.255.255.252
msk-donskaya-aalushin-gw-1(config-subif)#description q42
msk-donskaya-aalushin-gw-1(config-subif)#exit
msk-donskaya-aalushin-gw-1(config)#int f0/1.6
msk-donskaya-aalushin-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/1.6, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.6, changed state to up

msk-donskaya-aalushin-gw-1(config-subif)#encapsulation dot1Q 6
msk-donskaya-aalushin-gw-1(config-subif)#ip address 10.128.255.5 255.255.255.252
msk-donskaya-aalushin-gw-1(config-subif)#description sochi
msk-donskaya-aalushin-gw-1(config-subif)#exit
msk-donskaya-aalushin-gw-1(config)#
```

Рис. 2.2: Настройка интерфейсов маршрутизатора Донская

```

msk-q42-aalushin-gw-1(config)#int f0/1
msk-q42-aalushin-gw-1(config-if)#no shutdown

msk-q42-aalushin-gw-1(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

msk-q42-aalushin-gw-1(config-if)#exit
msk-q42-aalushin-gw-1(config)#int f0/1.5
msk-q42-aalushin-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/1.5, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.5, changed state to up

msk-q42-aalushin-gw-1(config-subif)#encapsulation dot1Q 5
msk-q42-aalushin-gw-1(config-subif)#ip address 10.128.255.2 255.255.255.252
msk-q42-aalushin-gw-1(config-subif)#description donskaya
msk-q42-aalushin-gw-1(config-subif)#exit
msk-q42-aalushin-gw-1(config)#exit

```

Рис. 2.3: Настройка интерфейсов маршрутизатора 1 42-квартал

```

sch-sochi-aalushin-sw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
sch-sochi-aalushin-sw-1(config)#interface f0/23
sch-sochi-aalushin-sw-1(config-if)#switchport mode trunk
sch-sochi-aalushin-sw-1(config-if)#exit
sch-sochi-aalushin-sw-1(config)#int f0/24
sch-sochi-aalushin-sw-1(config-if)#switchport mode trunk
sch-sochi-aalushin-sw-1(config-if)#exit
sch-sochi-aalushin-sw-1(config)#vlan 6
sch-sochi-aalushin-sw-1(config-vlan)#name sochi
sch-sochi-aalushin-sw-1(config-vlan)#exit
sch-sochi-aalushin-sw-1(config)#int vlan 6
sch-sochi-aalushin-sw-1(config-if)#
%LINK-5-CHANGED: Interface Vlan6, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan6, changed state to up

sch-sochi-aalushin-sw-1(config-if)#no shutdown
sch-sochi-aalushin-sw-1(config-if)#ex

```

Рис. 2.4: Настройка интерфейсов коммутатора Сочи

```

sch-sochi-aalushin-gw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
sch-sochi-aalushin-gw-1(config)#int f0/0
sch-sochi-aalushin-gw-1(config-if)#no shut
sch-sochi-aalushin-gw-1(config-if)#no shutdown

sch-sochi-aalushin-gw-1(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

sch-sochi-aalushin-gw-1(config-if)#exit
sch-sochi-aalushin-gw-1(config)#int f0/0.6
sch-sochi-aalushin-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.6, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.6, changed state to up

sch-sochi-aalushin-gw-1(config-subif)#encap
sch-sochi-aalushin-gw-1(config-subif)#encapsulation dot1Q 6
sch-sochi-aalushin-gw-1(config-subif)#ip address 10.128.255.6 255.255.255.252
sch-sochi-aalushin-gw-1(config-subif)#descr
sch-sochi-aalushin-gw-1(config-subif)#description donskaya
sch-sochi-aalushin-gw-1(config-subif)#exit
sch-sochi-aalushin-gw-1(config)#exit
sch-sochi-aalushin-gw-1#
%SYS-5-CONFIG_I: Configured from console by console

sch-sochi-aalushin-gw-1#

```

Рис. 2.5: Настройка интерфейсов маршрутизатора Сочи

2) Настроил оборудование, расположенное в 42-м квартале.

```

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
msk-q42-aalushin-gw-1(config-if)#exit
msk-q42-aalushin-gw-1(config)#int f0/0.201
msk-q42-aalushin-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.201, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.201, changed state to up

msk-q42-aalushin-gw-1(config-subif)#encap
msk-q42-aalushin-gw-1(config-subif)#encapsulation dot1Q 201
msk-q42-aalushin-gw-1(config-subif)#ip address 10.129.0.1 255.255.255.0
msk-q42-aalushin-gw-1(config-subif)#desc
msk-q42-aalushin-gw-1(config-subif)#description q42-main
msk-q42-aalushin-gw-1(config-subif)#exit
msk-q42-aalushin-gw-1(config)#int f1/0
msk-q42-aalushin-gw-1(config-if)#no shit
msk-q42-aalushin-gw-1(config-if)#no shit
msk-q42-aalushin-gw-1(config-if)#no shit
^
% Invalid input detected at '^' marker.

msk-q42-aalushin-gw-1(config-if)#no shut
msk-q42-aalushin-gw-1(config-if)#no shutdown

msk-q42-aalushin-gw-1(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

msk-q42-aalushin-gw-1(config-if)#exit
msk-q42-aalushin-gw-1(config)#int f1/0.202
msk-q42-aalushin-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet1/0.202, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0.202, changed state to up

msk-q42-aalushin-gw-1(config-subif)#encapsulation dot1Q 202
msk-q42-aalushin-gw-1(config-subif)#ip address 10.129.1.1 255.255.255.0
msk-q42-aalushin-gw-1(config-subif)#description q42-management
msk-q42-aalushin-gw-1(config-subif)#exit
msk-q42-aalushin-gw-1(config)#exit
msk-q42-aalushin-gw-1#
%SYS-5-CONFIG_I: Configured from console by console
msk-q42-aalushin-gw-1#

```

Рис. 2.6: Настройка интерфейсов маршрутизатора 1 42-й квартал

```

msk-q42-aalushin-sw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-q42-aalushin-sw-1(config)#int f0/24
msk-q42-aalushin-sw-1(config-if)#switchport mode trunk
msk-q42-aalushin-sw-1(config-if)#exit
msk-q42-aalushin-sw-1(config)#int f0/21
msk-q42-aalushin-sw-1(config-if)#switchport mode access
msk-q42-aalushin-sw-1(config-if)#switchport access vlan 201
% Access VLAN does not exist. Creating vlan 201
msk-q42-aalushin-sw-1(config-if)#
msk-q42-aalushin-sw-1(config-if)#vlan 201
msk-q42-aalushin-sw-1(config-vlan)#name q42-main
msk-q42-aalushin-sw-1(config-vlan)#exit
msk-q42-aalushin-sw-1(config)#int vlan 201
msk-q42-aalushin-sw-1(config-if)#
%LINK-5-CHANGED: Interface Vlan201, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan201, changed state to up

msk-q42-aalushin-sw-1(config-if)#no whut
msk-q42-aalushin-sw-1(config-if)#no shu
msk-q42-aalushin-sw-1(config-if)#no shutdown
msk-q42-aalushin-sw-1(config-if)#exit
msk-q42-aalushin-sw-1(config-if)#

```

I

Рис. 2.7: Настройка интерфейсов коммутатора 1 42-й квартал

```

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

msk-hostel-aalushin-gw-1(config-if)#exit
msk-hostel-aalushin-gw-1(config)#int f0/1
msk-hostel-aalushin-gw-1(config-if)#switchport trunk encapsulation dot1Q
msk-hostel-aalushin-gw-1(config-if)#switchport mode trunk

msk-hostel-aalushin-gw-1(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

msk-hostel-aalushin-gw-1(config-if)#exit
msk-hostel-aalushin-gw-1(config)#vlan 202
msk-hostel-aalushin-gw-1(config-vlan)#name q42-management
msk-hostel-aalushin-gw-1(config-vlan)#exit
msk-hostel-aalushin-gw-1(config)#int vlan 202
msk-hostel-aalushin-gw-1(config-if)#
%LINK-5-CHANGED: Interface Vlan202, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan202, changed state to up

msk-hostel-aalushin-gw-1(config-if)#no
msk-hostel-aalushin-gw-1(config-if)#no s
msk-hostel-aalushin-gw-1(config-if)#no sh
msk-hostel-aalushin-gw-1(config-if)#no shutdown
msk-hostel-aalushin-gw-1(config-if)#ip ad
msk-hostel-aalushin-gw-1(config-if)#ip address 10.129.1.2 255.255.255.0
msk-hostel-aalushin-gw-1(config-if)#exit
msk-hostel-aalushin-gw-1(config)#vlan 301
msk-hostel-aalushin-gw-1(config-vlan)#name hostel-main
msk-hostel-aalushin-gw-1(config-vlan)#int vlan 301
msk-hostel-aalushin-gw-1(config-if)#
%LINK-5-CHANGED: Interface Vlan301, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan301, changed state to up

msk-hostel-aalushin-gw-1(config-if)#no sj
msk-hostel-aalushin-gw-1(config-if)#no sh
msk-hostel-aalushin-gw-1(config-if)#no shutdown
msk-hostel-aalushin-gw-1(config-if)#ip add
msk-hostel-aalushin-gw-1(config-if)#ip address 10.129.128.1 255.255.255.0
msk-hostel-aalushin-gw-1(config-if)#exit
msk-hostel-aalushin-gw-1(config)#exit

```

Рис. 2.8: Настройка интерфейсов маршрутизатора 2 42-й квартал

```

msk-hostel-aalushin-sw-1>en
Password:
msk-hostel-aalushin-sw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-hostel-aalushin-sw-1(config)#int g0/1
msk-hostel-aalushin-sw-1(config-if)#switchport mode trunk
msk-hostel-aalushin-sw-1(config-if)#exit
msk-hostel-aalushin-sw-1(config)#int f0/1
% Invalid input detected at '^' marker.

msk-hostel-aalushin-sw-1(config)#int f0/1
msk-hostel-aalushin-sw-1(config-if)#switchport mode access
msk-hostel-aalushin-sw-1(config-if)#switchport access vlan 301
% Access VLAN does not exist. Creating vlan 301
msk-hostel-aalushin-sw-1(config-if)#exit
msk-hostel-aalushin-sw-1(config)#vlan 301
msk-hostel-aalushin-sw-1(config-vlan)#name hostel-main
msk-hostel-aalushin-sw-1(config-vlan)#exit
msk-hostel-aalushin-sw-1(config)#int vlan 301
msk-hostel-aalushin-sw-1(config-if)#
%LINK-5-CHANGED: Interface Vlan301, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan301, changed state to up

msk-hostel-aalushin-sw-1(config-if)#no sh
msk-hostel-aalushin-sw-1(config-if)#no shutdown
msk-hostel-aalushin-sw-1(config-if)#exit
msk-hostel-aalushin-sw-1(config)#exit

```

Рис. 2.9: Настройка интерфейсов коммутатора 2 42-й квартал

3) Настроил оборудование, расположенное в Сочи.


```

sch-sochi-aalushin-gw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
sch-sochi-aalushin-gw-1(config)#int f0/0.401
sch-sochi-aalushin-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.401, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.401, changed state to up

sch-sochi-aalushin-gw-1(config-subif)#enca
sch-sochi-aalushin-gw-1(config-subif)#encapsulation dot1Q 301
sch-sochi-aalushin-gw-1(config-subif)#encapsulation dot1Q 401
sch-sochi-aalushin-gw-1(config-subif)#ip add
sch-sochi-aalushin-gw-1(config-subif)#ip address 10.130.0.1 255.255.255.0
sch-sochi-aalushin-gw-1(config-subif)#desc
sch-sochi-aalushin-gw-1(config-subif)#description sochi
sch-sochi-aalushin-gw-1(config-subif)#exit
sch-sochi-aalushin-gw-1(config)#int f0/0.402
sch-sochi-aalushin-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.402, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.402, changed state to up

sch-sochi-aalushin-gw-1(config-subif)#encapsulation dot1Q 402
sch-sochi-aalushin-gw-1(config-subif)#ip address 10.130.1.1 255.255.255.0
sch-sochi-aalushin-gw-1(config-subif)#description sochi-management
sch-sochi-aalushin-gw-1(config-subif)#exit
sch-sochi-aalushin-gw-1(config)#
sch-sochi-aalushin-gw-1(config)#int f0/0.401
sch-sochi-aalushin-gw-1(config-subif)#desc
sch-sochi-aalushin-gw-1(config-subif)#description sochi-main
sch-sochi-aalushin-gw-1(config-subif)#exit
sch-sochi-aalushin-gw-1(config)#exit
sch-sochi-aalushin-gw-1#
%SYS-5-CONFIG_I: Configured from console by console

```

Рис. 2.10: Настройка интерфейсов маршрутизатора Сочи

```

sch-sochi-aalushin-sw-1>en
Password:
sch-sochi-aalushin-sw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
sch-sochi-aalushin-sw-1(config)#int f0/1
sch-sochi-aalushin-sw-1(config-if)#switchport mode access
sch-sochi-aalushin-sw-1(config-if)#switchport access vlan 301
% Access VLAN does not exist. Creating vlan 301
sch-sochi-aalushin-sw-1(config-if)#switchport access vlan 401
% Access VLAN does not exist. Creating vlan 401
sch-sochi-aalushin-sw-1(config-if)#exit
sch-sochi-aalushin-sw-1(config)#vlan 401
sch-sochi-aalushin-sw-1(config-vlan)#name sochi-main
sch-sochi-aalushin-sw-1(config-vlan)#exit
sch-sochi-aalushin-sw-1(config)#int vlan 401
sch-sochi-aalushin-sw-1(config-if)#
%LINK-5-CHANGED: Interface Vlan401, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan401, changed state to up

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

```

Рис. 2.11: Настройка интерфейсов коммутатора Сочи

4) Настроил статистическую маршрутизацию между территориями.

```

msk-donskaya-aalushin-gw-1>en
Password:
msk-donskaya-aalushin-gw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-aalushin-gw-1(config)#ip route 10.129.0.0 255.255.0.0 10.128.255.2
msk-donskaya-aalushin-gw-1(config)#ip route 10.130.0.0 255.255.0.0 10.128.255.6
msk-donskaya-aalushin-gw-1(config)#

```

Рис. 2.12: Настройка маршрутизатора Донская

```
msk-q42-aalushin-gw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-q42-aalushin-gw-1(config)#ip route 0.0.0.0 0.0.0.0 10.128.255.1
msk-q42-aalushin-gw-1(config)#
```

Рис. 2.13: Настройка маршрутизатора 1 42-й квартал

```
sch-sochi-aalushin-gw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
sch-sochi-aalushin-gw-1(config)#ip route
% Incomplete command.
sch-sochi-aalushin-gw-1(config)#ip route 0.0.0.0 0.0.0.0 10.128.255.5
sch-sochi-aalushin-gw-1(config)#
```

Рис. 2.14: Настройка маршрутизатора Сочи

5) Настроил статистическую маршрутизацию на территории 42-го квартала.

```
msk-q42-aalushin-gw-1(config)#ip route 10.129.128.0 255.255.128.0 10.129.1.2
msk-q42-aalushin-gw-1(config)#
```

Рис. 2.15: Настройка маршрутизатора 1 42-квартал

```
msk-hostel-aalushin-gw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-hostel-aalushin-gw-1(config)#ip rou
msk-hostel-aalushin-gw-1(config)#ip routing
msk-hostel-aalushin-gw-1(config)#ip route
% Incomplete command.
msk-hostel-aalushin-gw-1(config)#ip route 0.0.0.0 0.0.0.0 10.129.1.1
msk-hostel-aalushin-gw-1(config)#
```

Рис. 2.16: Настройка интерфейсов маршрутизатора 2 42-квартал

6) Настроил NAT на маршрутизаторе Донская.

```
msk-donskaya-aalushin-gw-1(config)#int f0/1.5
msk-donskaya-aalushin-gw-1(config-subif)#ip nat inside
msk-donskaya-aalushin-gw-1(config-subif)#exit
msk-donskaya-aalushin-gw-1(config)#int f0/1.6
msk-donskaya-aalushin-gw-1(config-subif)#ip nat inside
msk-donskaya-aalushin-gw-1(config-subif)#exit
msk-donskaya-aalushin-gw-1(config)#ip access-list extended nat-inet
msk-donskaya-aalushin-gw-1(config-ext-nacl)#remark q42
msk-donskaya-aalushin-gw-1(config-ext-nacl)#permit ip host 10.129.0.200 any
msk-donskaya-aalushin-gw-1(config-ext-nacl)#permit ip host 10.129.128.200 any
msk-donskaya-aalushin-gw-1(config-ext-nacl)#remark sochi
msk-donskaya-aalushin-gw-1(config-ext-nacl)#permit ip host 10.130.0.200 any
msk-donskaya-aalushin-gw-1(config-ext-nacl)#exit
msk-donskaya-aalushin-gw-1(config)#exit
msk-donskaya-aalushin-gw-1#
%SYS-5-CONFIG_I: Configured from console by console
msk-donskaya-aalushin-gw-1#
```

Рис. 2.17: NAT на маршрутизатора Донская

3 Выводы

Я настроил взаимодействие через сеть провайдера посредством статистической маршрутизации локальной сети организации с сетью основного здания, расположенного в 42-м квартале в Москве, и сетью филиала, расположенного в Сочи.