

# Презентация по лабораторной работе №6

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19 июня 2025 г.

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Настроить статическую маршрутизацию VLAN в сети.

1. Добавить в локальную сеть маршрутизатор, провести его первоначальную настройку.
2. Настроить статическую маршрутизацию VLAN.
3. При выполнении работы необходимо учитывать соглашение об именовании (см. раздел 2.5).

## Выполнение лабораторной работы

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## Размещение маршрутизатора Cisco 2811

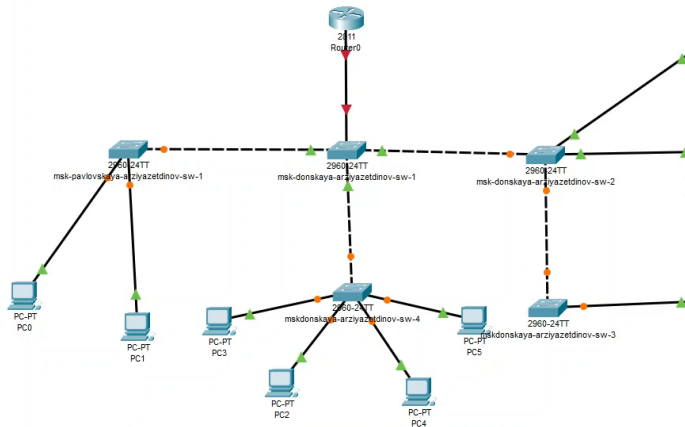


Рис. 1: Размещение маршрутизатора

# Конфигурация маршрутизатора

Router0

Physical Config CLI Attributes

IOS Command Line Interface

Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:  
<http://www.cisco.com/wvl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to [export@cisco.com](mailto:export@cisco.com).

cisco 2811 (MPC860) processor (revision 0x200) with 60416K/5120K bytes of memory  
Processor board ID JAD05190MT2 (4292891495)  
2 FastEthernet interface(s)  
DRAM configuration is 64 bits wide with parity disabled.  
256K bytes of non-volatile configuration memory.  
249856K bytes of ATA System CompactFlash 0 (Read/Write)

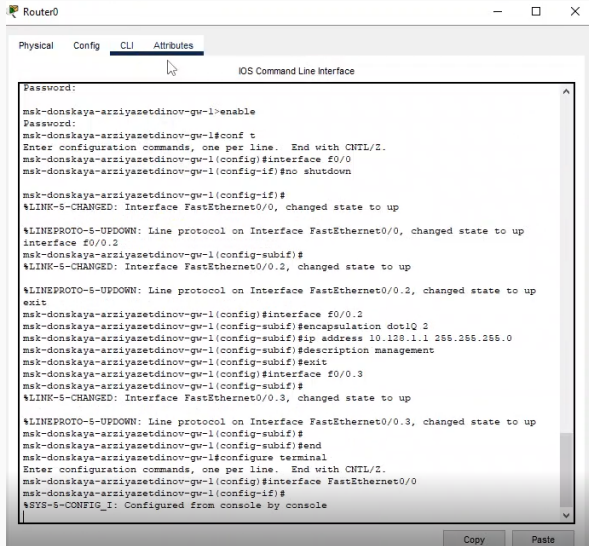
Press RETURN to get started!

```
msk-donskaya-arziyasetdinov-gw-1>enable
msk-donskaya-arziyasetdinov-gw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-arziyasetdinov-gw-1(config)#line vty 0 4
msk-donskaya-arziyasetdinov-gw-1(config-line)#password cisco
msk-donskaya-arziyasetdinov-gw-1(config-line)#login
msk-donskaya-arziyasetdinov-gw-1(config-line)#line console 0
msk-donskaya-arziyasetdinov-gw-1(config-line)#password cisco
msk-donskaya-arziyasetdinov-gw-1(config-line)#login
msk-donskaya-arziyasetdinov-gw-1(config-line)#enable secret cisco
msk-donskaya-arziyasetdinov-gw-1(config)#service passwordencryption
^
% Invalid input detected at '^' marker.
msk-donskaya-arziyasetdinov-gw-1(config)#service passwordencryption
```

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# Настройка виртуального интерфейса



Router0

Physical Config **CLI** Attributes

IOS Command Line Interface

```

Password:
msk-donskaya-arziyazetdinov-gw-1>enable
Password:
msk-donskaya-arziyazetdinov-gw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-arziyazetdinov-gw-1(config)#interface f0/0
msk-donskaya-arziyazetdinov-gw-1(config-if)#no shutdown

msk-donskaya-arziyazetdinov-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
interface f0/0.2
msk-donskaya-arziyazetdinov-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.2, changed state to up
exit
msk-donskaya-arziyazetdinov-gw-1(config)#interface f0/0.2
msk-donskaya-arziyazetdinov-gw-1(config-subif)#encapsulation dot1Q 2
msk-donskaya-arziyazetdinov-gw-1(config-subif)#ip address 10.128.1.1 255.255.255.0
msk-donskaya-arziyazetdinov-gw-1(config-subif)#description management
msk-donskaya-arziyazetdinov-gw-1(config-subif)#exit
msk-donskaya-arziyazetdinov-gw-1(config)#interface f0/0.3
msk-donskaya-arziyazetdinov-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.3, changed state to up

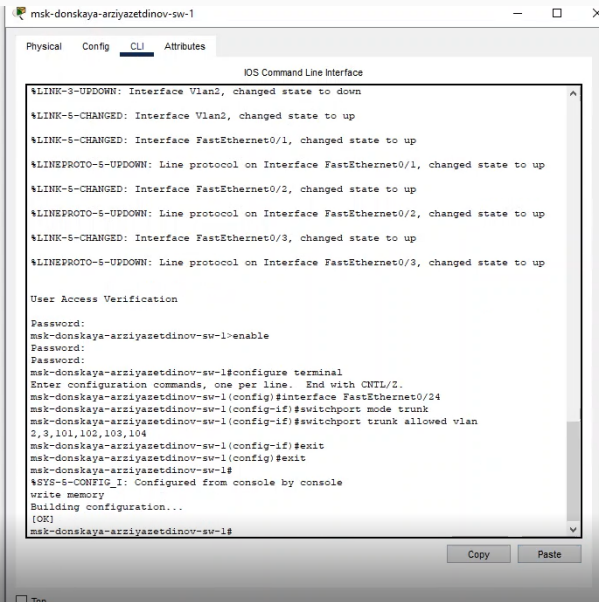
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.3, changed state to up
msk-donskaya-arziyazetdinov-gw-1(config-subif)#
msk-donskaya-arziyazetdinov-gw-1(config-subif)#end
msk-donskaya-arziyazetdinov-gw-1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-arziyazetdinov-gw-1(config)#interface FastEthernet0/0
msk-donskaya-arziyazetdinov-gw-1(config-if)#
%SYS-5-CONFIG_I: Configured from console by console

```

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# Настройка виртуального интерфейса



```
msk-donskaya-arziyazetdinov-sw-1
Physical Config CLI Attributes
IOS Command Line Interface

%LINK-3-UPDOWN: Interface Vlan2, changed state to down
%LINK-5-CHANGED: Interface Vlan2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up
%LINK-5-CHANGED: Interface FastEthernet0/3, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/3, changed state to up

User Access Verification

Password:
msk-donskaya-arziyazetdinov-sw-1>enable
Password:
Password:
msk-donskaya-arziyazetdinov-sw-1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-arziyazetdinov-sw-1(config)#interface FastEthernet0/24
msk-donskaya-arziyazetdinov-sw-1(config-if)#switchport mode trunk
msk-donskaya-arziyazetdinov-sw-1(config-if)#switchport trunk allowed vlan
2,3,101,102,103,104
msk-donskaya-arziyazetdinov-sw-1(config-if)#exit
msk-donskaya-arziyazetdinov-sw-1(config)#exit
msk-donskaya-arziyazetdinov-sw-1#
%SYS-5-CONFIG_I: Configured from console by console
write memory
Building configuration...
[OK]
msk-donskaya-arziyazetdinov-sw-1#
```

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Благодаря выполнению данной лабораторной работы, мы научились настраивать статическую маршрутизацию VLAN в сети.