

Лабораторная работа №5

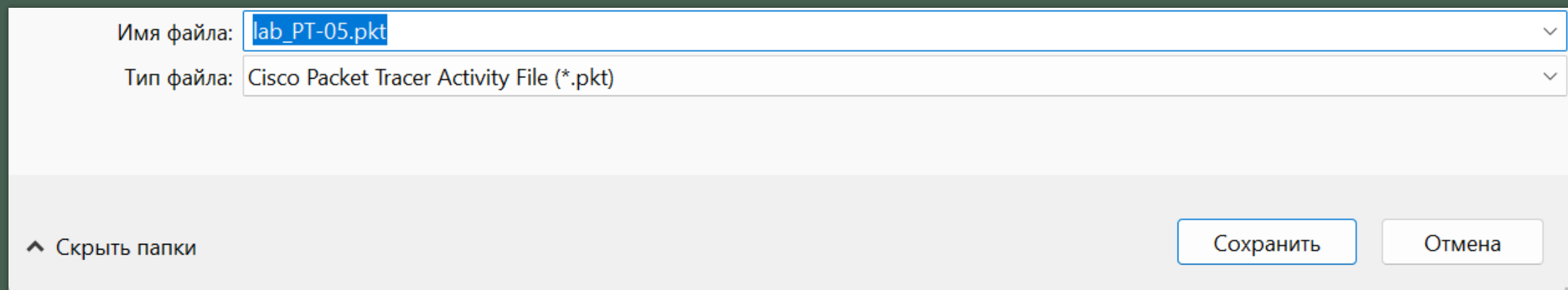
Конфигурирование VLAN

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НПИБД-01-22

Новый проект



Имя файла: lab_PT-05.pkt

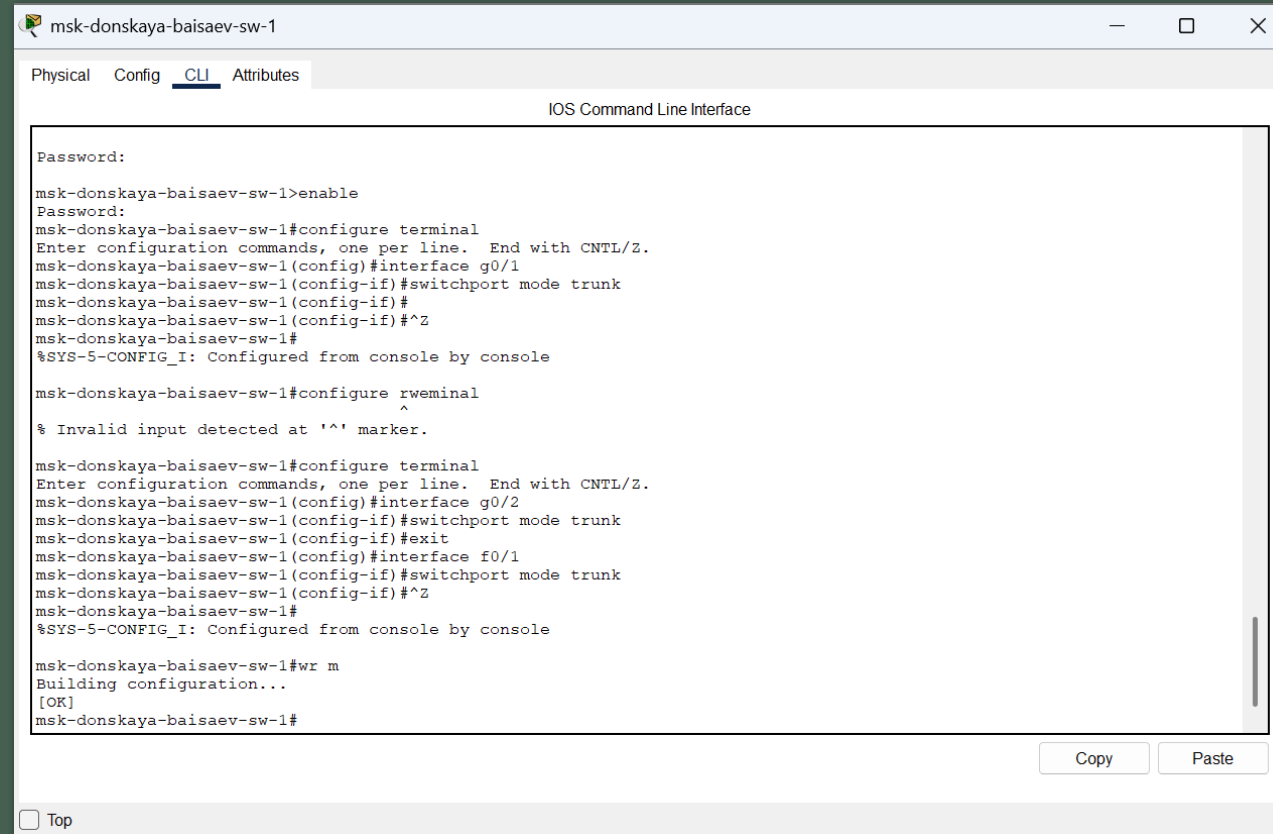
Тип файла: Cisco Packet Tracer Activity File (*.pkt)

^ Скрыть папки

Сохранить Отмена

Рис. 1.1. Открытие проекта lab_PT-05.pkt.

Настройка Trunk-портов



The screenshot shows a web-based configuration interface for a network switch named 'msk-donskaya-baisaev-sw-1'. The 'CLI' tab is selected, displaying the 'IOS Command Line Interface'. The interface shows a series of commands entered to configure two interfaces, g0/1 and f0/1, as Trunk ports. The commands include enabling the terminal, entering configuration mode, setting the interface to switchport mode trunk, and exiting configuration mode. The system messages confirm that the configuration was successfully applied to both interfaces. At the bottom of the CLI window, there are 'Copy' and 'Paste' buttons.

```
msk-donskaya-baisaev-sw-1>enable
Password:
msk-donskaya-baisaev-sw-1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-baisaev-sw-1(config)#interface g0/1
msk-donskaya-baisaev-sw-1(config-if)#switchport mode trunk
msk-donskaya-baisaev-sw-1(config-if)#
msk-donskaya-baisaev-sw-1(config-if)#^Z
msk-donskaya-baisaev-sw-1#
%SYS-5-CONFIG_I: Configured from console by console

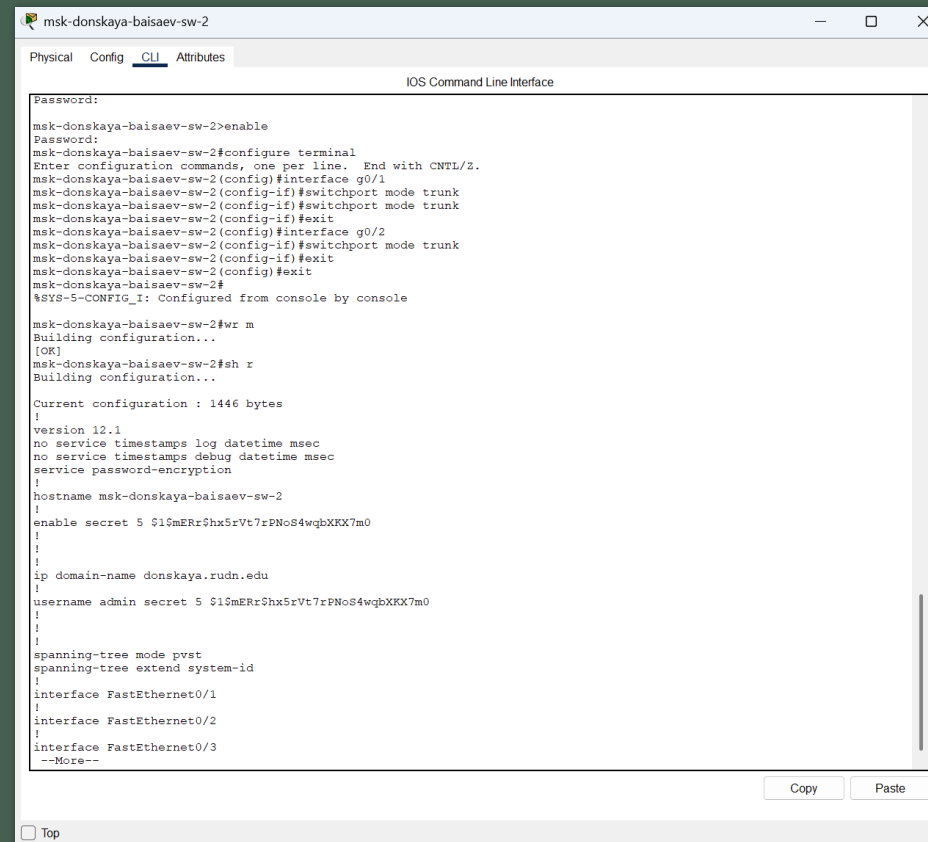
msk-donskaya-baisaev-sw-1#configure terminal
^
% Invalid input detected at '^' marker.

msk-donskaya-baisaev-sw-1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-baisaev-sw-1(config)#interface g0/2
msk-donskaya-baisaev-sw-1(config-if)#switchport mode trunk
msk-donskaya-baisaev-sw-1(config-if)#exit
msk-donskaya-baisaev-sw-1(config)#interface f0/1
msk-donskaya-baisaev-sw-1(config-if)#switchport mode trunk
msk-donskaya-baisaev-sw-1(config-if)#^Z
msk-donskaya-baisaev-sw-1#
%SYS-5-CONFIG_I: Configured from console by console

msk-donskaya-baisaev-sw-1#wr m
Building configuration...
[OK]
msk-donskaya-baisaev-sw-1#
```

Рис. 1.2. Настройка Trunk-портов на коммутаторе msk-donskaya-baisaev-sw-1.

Настройка Trunk-портов



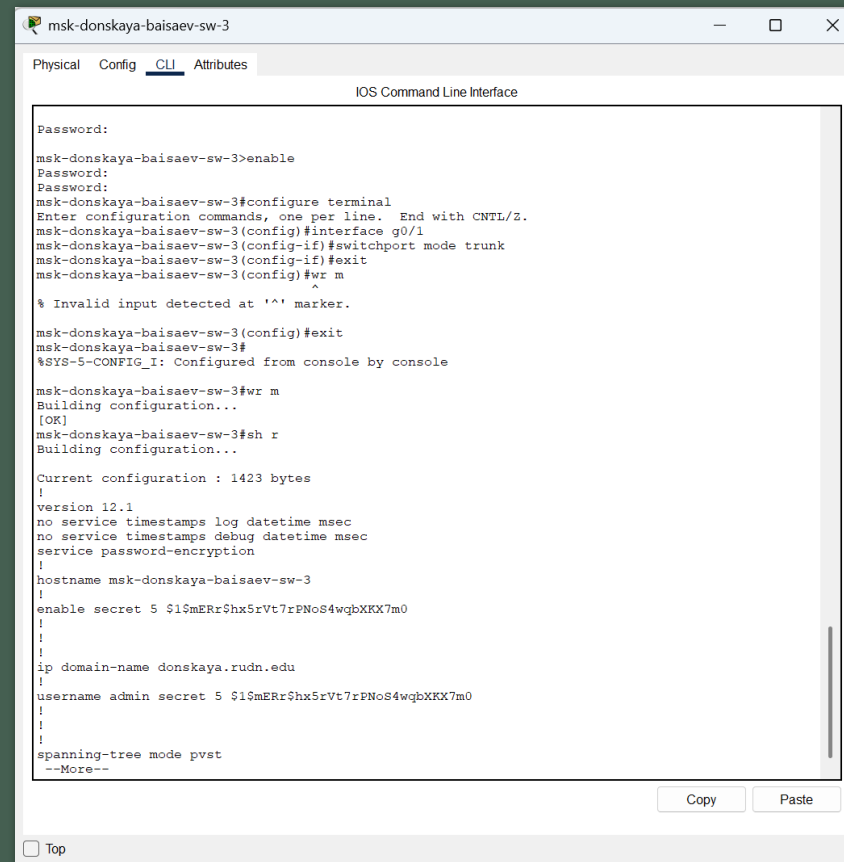
```
msk-donskaya-baisaev-sw-2>enable
Password:
msk-donskaya-baisaev-sw-2#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-baisaev-sw-2(config)#interface g0/1
msk-donskaya-baisaev-sw-2(config-if)#switchport mode trunk
msk-donskaya-baisaev-sw-2(config-if)#exit
msk-donskaya-baisaev-sw-2(config)#interface g0/2
msk-donskaya-baisaev-sw-2(config-if)#switchport mode trunk
msk-donskaya-baisaev-sw-2(config-if)#exit
msk-donskaya-baisaev-sw-2(config)#exit
%SYS-5-CONFIG_I: Configured from console by console

msk-donskaya-baisaev-sw-2#wr m
Building configuration...
[OK]
msk-donskaya-baisaev-sw-2#sh r
Building configuration...

Current configuration : 1446 bytes
!
version 12.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname msk-donskaya-baisaev-sw-2
!
enable secret 5 $1$mErR$hx5rVt7rPNoS4wqbXKX7m0
!
!
!
ip domain-name donskeya.rudn.edu
!
username admin secret 5 $1$mErR$hx5rVt7rPNoS4wqbXKX7m0
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
!
interface FastEthernet0/2
!
interface FastEthernet0/3
--More--
```

Рис. 1.3. Настройка Trunk-портов на коммутаторе msk-donskaya-baisaev-sw-2.

Настройка Trunk-портов



```
msk-donskaya-baisaev-sw-3
Physical Config CLI Attributes
IOS Command Line Interface

Password:
msk-donskaya-baisaev-sw-3>enable
Password:
msk-donskaya-baisaev-sw-3#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-baisaev-sw-3(config)#interface g0/1
msk-donskaya-baisaev-sw-3(config-if)#switchport mode trunk
msk-donskaya-baisaev-sw-3(config-if)#exit
msk-donskaya-baisaev-sw-3(config)#wr m
^
% Invalid input detected at '^' marker.

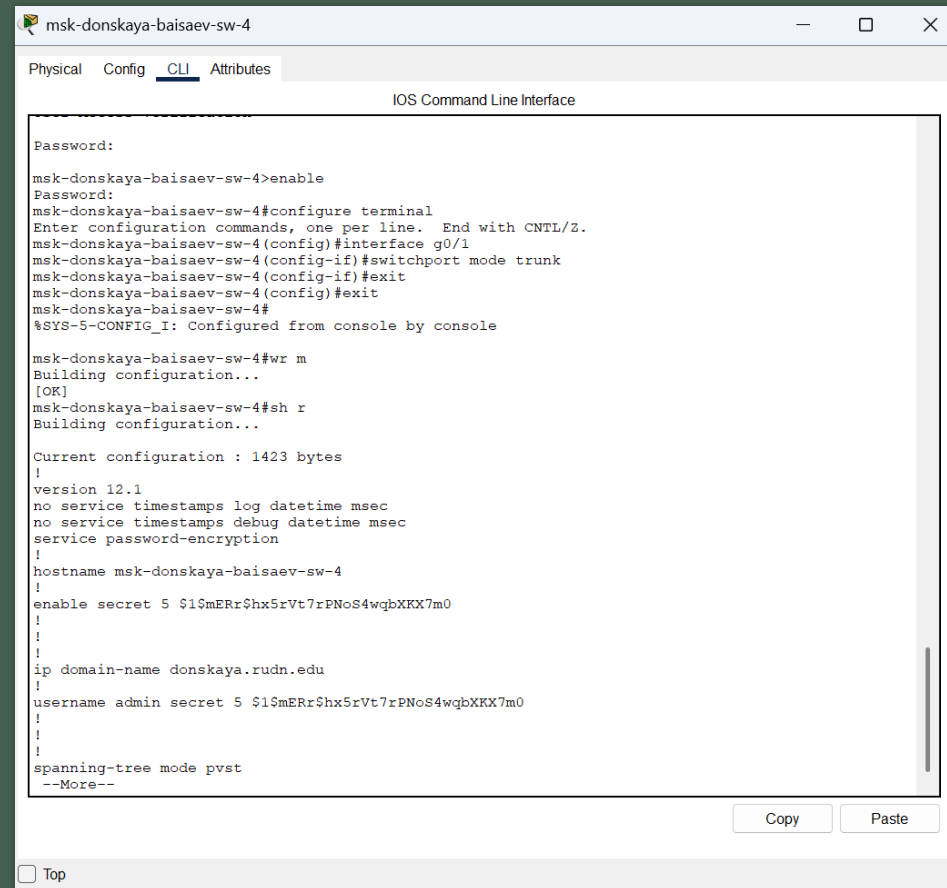
msk-donskaya-baisaev-sw-3(config)#exit
msk-donskaya-baisaev-sw-3#
%SYS-5-CONFIG_I: Configured from console by console

msk-donskaya-baisaev-sw-3#wr m
Building configuration...
[OK]
msk-donskaya-baisaev-sw-3#sh r
Building configuration...

Current configuration : 1423 bytes
!
version 12.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname msk-donskaya-baisaev-sw-3
!
enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0
!
!
!
ip domain-name donsкаya.rudn.edu
!
username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0
!
!
!
spanning-tree mode pvst
--More--
```

Рис. 1.4. Настройка Trunk-портов на коммутаторе msk-donskaya-baisaev-sw-3.

Настройка Trunk-портов



```
msk-donskaya-baisaev-sw-4
Physical Config CLI Attributes
IOS Command Line Interface

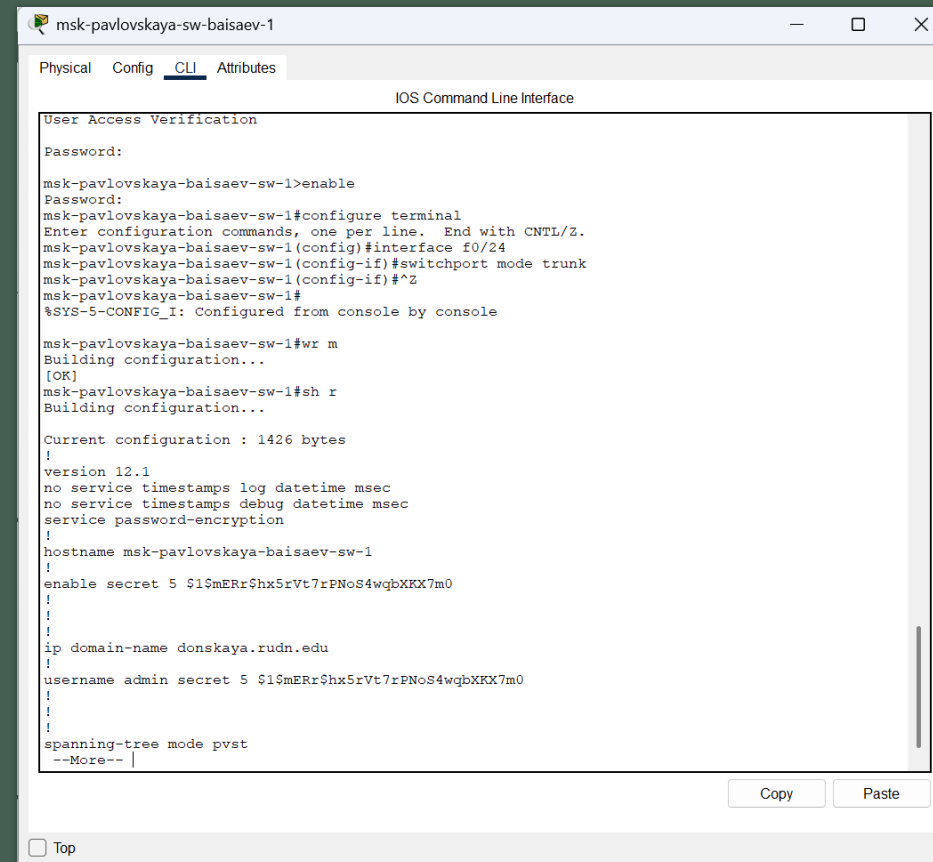
Password:
msk-donskaya-baisaev-sw-4>enable
Password:
msk-donskaya-baisaev-sw-4#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-baisaev-sw-4(config)#interface g0/1
msk-donskaya-baisaev-sw-4(config-if)#switchport mode trunk
msk-donskaya-baisaev-sw-4(config-if)#exit
msk-donskaya-baisaev-sw-4(config)#exit
msk-donskaya-baisaev-sw-4#
%SYS-5-CONFIG_I: Configured from console by console

msk-donskaya-baisaev-sw-4#wr m
Building configuration...
[OK]
msk-donskaya-baisaev-sw-4#sh r
Building configuration...

Current configuration : 1423 bytes
!
version 12.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname msk-donskaya-baisaev-sw-4
!
enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0
!
!
!
ip domain-name donskeya.rudn.edu
!
username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0
!
!
!
spanning-tree mode pvst
--More--
```

Рис. 1.5. Настройка Trunk-портов на коммутаторе msk-donskaya-baisaev-sw-4.

Настройка Trunk-портов



```
msk-pavlovskaya-sw-baisaev-1
Physical Config CLI Attributes
IOS Command Line Interface

User Access Verification
Password:

msk-pavlovskaya-sw-baisaev-1>enable
Password:
msk-pavlovskaya-sw-baisaev-1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-pavlovskaya-sw-baisaev-1(config)#interface f0/24
msk-pavlovskaya-sw-baisaev-1(config-if)#switchport mode trunk
msk-pavlovskaya-sw-baisaev-1(config-if)#^Z
msk-pavlovskaya-sw-baisaev-1#
%SYS-5-CONFIG_I: Configured from console by console

msk-pavlovskaya-sw-baisaev-1#wr m
Building configuration...
[OK]
msk-pavlovskaya-sw-baisaev-1#sh r
Building configuration...

Current configuration : 1426 bytes
!
version 12.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname msk-pavlovskaya-sw-baisaev-1
!
enable secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0
!
!
ip domain-name donsкаya.rudn.edu
!
username admin secret 5 $1$mERr$hx5rVt7rPNoS4wqbXKX7m0
!
!
spanning-tree mode pvst
--More--
```

Рис. 1.6. Настройка Trunk-портов на коммутаторе msk-pavlovskaya-baisaev-sw-1.

Настройка коммутатора как VTP-сервера



```
msk-donskaya-baisaev-sw-1>enable
Password:
msk-donskaya-baisaev-sw-1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-baisaev-sw-1(config)#vtp mode server
Device mode already VTP SERVER.
msk-donskaya-baisaev-sw-1(config)#vtp domain donskaya
Changing VTP domain name from NULL to donskaya
msk-donskaya-baisaev-sw-1(config)#vtp password cisco
Setting device VLAN database password to cisco
msk-donskaya-baisaev-sw-1(config)#vlan 2
%LINK-5-CHANGED: Interface Vlan2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan2, changed state to up
msk-donskaya-baisaev-sw-1(config-vlan)#name management
msk-donskaya-baisaev-sw-1(config-vlan)#vlan 3
msk-donskaya-baisaev-sw-1(config-vlan)#name servers
msk-donskaya-baisaev-sw-1(config-vlan)#vlan 101
msk-donskaya-baisaev-sw-1(config-vlan)#name dk
msk-donskaya-baisaev-sw-1(config-vlan)#vlan 102
msk-donskaya-baisaev-sw-1(config-vlan)#name departaments
msk-donskaya-baisaev-sw-1(config-vlan)#vlan 103
msk-donskaya-baisaev-sw-1(config-vlan)#name adm
msk-donskaya-baisaev-sw-1(config-vlan)#vlan 104
msk-donskaya-baisaev-sw-1(config-vlan)#name other
msk-donskaya-baisaev-sw-1(config-vlan)#2
msk-donskaya-baisaev-sw-1#
%SYS-5-CONFIG_I: Configured from console by console

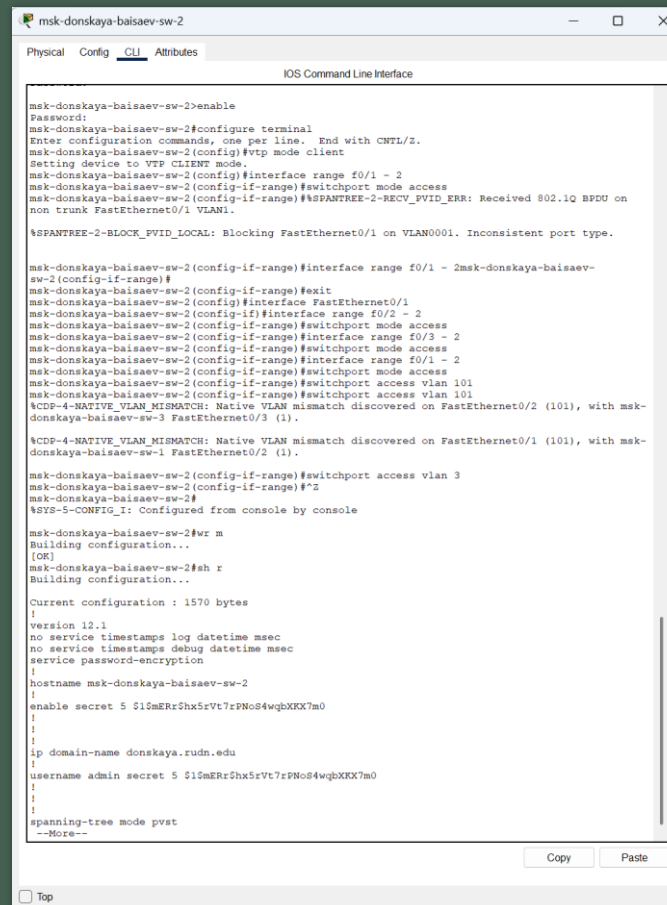
msk-donskaya-baisaev-sw-1#wr m
Building configuration...
[OK]
msk-donskaya-baisaev-sw-1#sh v
% Ambiguous command: "sh v"
msk-donskaya-baisaev-sw-1#sh vlan
```

VLAN Name	Status	Ports
1 default	active	Fa0/4, Fa0/5, Fa0/6, Fa0/7 Fa0/8, Fa0/9, Fa0/10, Fa0/11 Fa0/12, Fa0/13, Fa0/14, Fa0/15 Fa0/16, Fa0/17, Fa0/18, Fa0/19 Fa0/20, Fa0/21, Fa0/22, Fa0/23 Fa0/24, Gig0/1, Gig0/2
2 management	active	
3 servers	active	
101 dk	active	
102 departaments	active	
103 adm	active	
104 other	active	
1002 fddi-default	active	
1003 token-ring-default	active	
1004 fddinet-default	active	
1005 trnet-default	active	

VLAN Type	SAID	MTU	Parent	RingNo	BridgeNo	Stp	BrdgMode	Transl	Trans2
--More--									

Рис. 1.7. Настройка коммутатора msk-donskaya-baisaev-sw-1 как VTP-сервера, добавление номеров и названий VLAN.

Настройка коммутатора как VTP-клиента



```
msk-donskaya-baisaev-sw-2>enable
Password:
msk-donskaya-baisaev-sw-2#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-baisaev-sw-2(config)#vtp mode client
Setting device to VTP CLIENT mode.
msk-donskaya-baisaev-sw-2(config)#interface range f0/1 - 2
msk-donskaya-baisaev-sw-2(config-if-range)#switchport mode access
msk-donskaya-baisaev-sw-2(config-if-range)#%SPANTREE-2-RECV_FVID_ERR: Received 802.1Q BPDU on
non trunk FastEthernet0/1 VLAN1.

%SPANTREE-2-BLOCK_FVID_LOCAL: Blocking FastEthernet0/1 on VLAN0001. Inconsistent port type.

msk-donskaya-baisaev-sw-2(config-if-range)#interface range f0/1 - 2msk-donskaya-baisaev-
sw-2(config-if-range)#
msk-donskaya-baisaev-sw-2(config-if-range)#exit
msk-donskaya-baisaev-sw-2(config)#interface FastEthernet0/1
msk-donskaya-baisaev-sw-2(config-if)#interface range f0/2 - 2
msk-donskaya-baisaev-sw-2(config-if-range)#switchport mode access
msk-donskaya-baisaev-sw-2(config-if-range)#interface range f0/3 - 2
msk-donskaya-baisaev-sw-2(config-if-range)#switchport mode access
msk-donskaya-baisaev-sw-2(config-if-range)#interface range f0/1 - 2
msk-donskaya-baisaev-sw-2(config-if-range)#switchport mode access
msk-donskaya-baisaev-sw-2(config-if-range)#switchport access vlan 101
msk-donskaya-baisaev-sw-2(config-if-range)#switchport access vlan 101
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/2 (101), with msk-
donskaya-baisaev-sw-3 FastEthernet0/3 (1).

%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (101), with msk-
donskaya-baisaev-sw-1 FastEthernet0/2 (1).

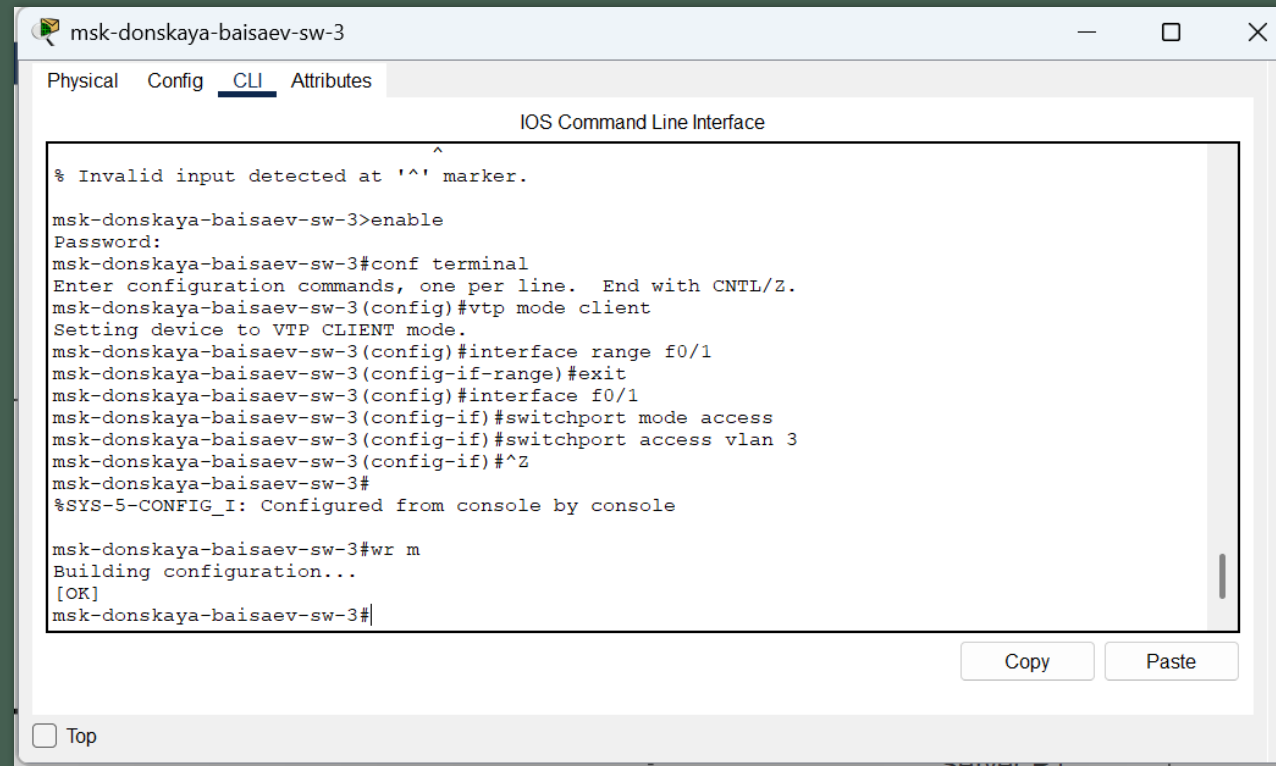
msk-donskaya-baisaev-sw-2(config-if-range)#switchport access vlan 3
msk-donskaya-baisaev-sw-2(config-if-range)#^Z
msk-donskaya-baisaev-sw-2#
%SYS-5-CONFIG_I: Configured from console by console

msk-donskaya-baisaev-sw-2#wr m
Building configuration...
[OK]
msk-donskaya-baisaev-sw-2#sh r
Building configuration...

Current configuration : 1570 bytes
!
version 12.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname msk-donskaya-baisaev-sw-2
!
enable secret 5 $1$mERr$hx5rVt7rPN0s4wqbXKX7m0
!
!
ip domain-name donskeya.rudn.edu
!
username admin secret 5 $1$mERr$hx5rVt7rPN0s4wqbXKX7m0
!
!
spanning-tree mode pvst
--More--
```

Рис. 1.8. Настройка коммутатора msk-donskaya-baisaev-sw-2 как VTP-клиента и указание принадлежности к VLAN.

Настройка коммутатора как VTP-клиента



```
msk-donskaya-baisaev-sw-3
Physical Config CLI Attributes
IOS Command Line Interface

% Invalid input detected at '^' marker.

msk-donskaya-baisaev-sw-3>enable
Password:
msk-donskaya-baisaev-sw-3#conf terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-baisaev-sw-3(config)#vtp mode client
Setting device to VTP CLIENT mode.
msk-donskaya-baisaev-sw-3(config)#interface range f0/1
msk-donskaya-baisaev-sw-3(config-if-range)#exit
msk-donskaya-baisaev-sw-3(config)#interface f0/1
msk-donskaya-baisaev-sw-3(config-if)#switchport mode access
msk-donskaya-baisaev-sw-3(config-if)#switchport access vlan 3
msk-donskaya-baisaev-sw-3(config-if)#^Z
msk-donskaya-baisaev-sw-3#
%SYS-5-CONFIG_I: Configured from console by console

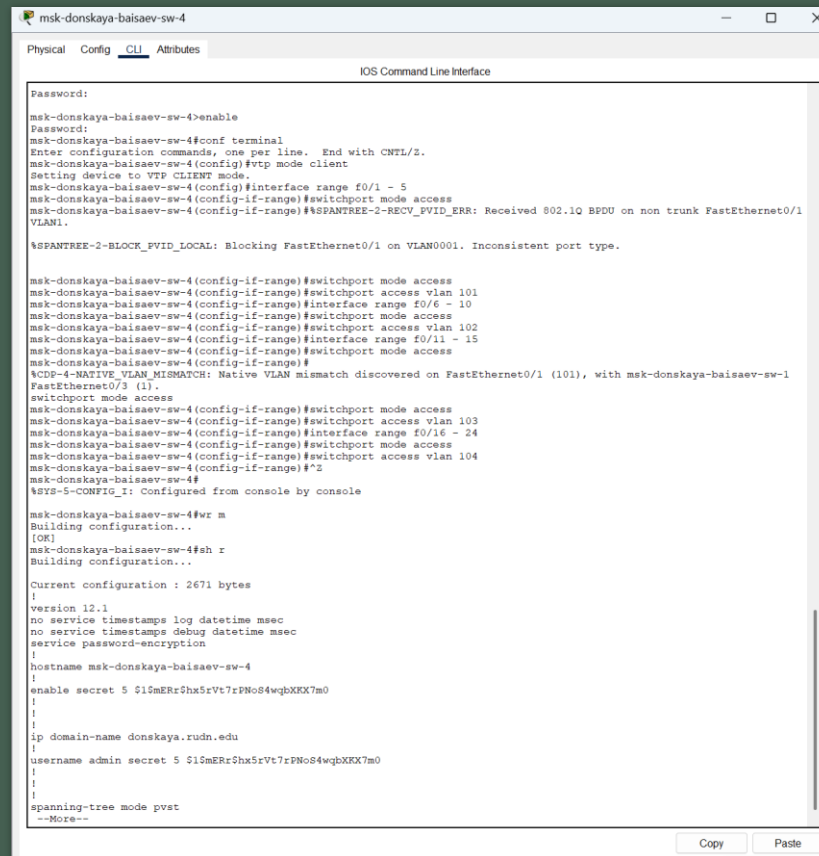
msk-donskaya-baisaev-sw-3#wr m
Building configuration...
[OK]
msk-donskaya-baisaev-sw-3#
```

Copy Paste

☐ Top

Рис. 1.9. Настройка коммутатора msk-donskaya-baisaev-sw-3 как VTP-клиента и указание принадлежности к VLAN.

Настройка коммутатора как VTP-клиента



```
msk-donskaya-baisaev-sw-4
Physical Config CLI Attributes
IOS Command Line Interface

Password:
msk-donskaya-baisaev-sw-4>enable
Password:
msk-donskaya-baisaev-sw-4#conf terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-baisaev-sw-4(config)#vtp mode client
Setting device to VTP CLIENT mode.
msk-donskaya-baisaev-sw-4(config)#interface range f0/1 - 5
msk-donskaya-baisaev-sw-4(config-if-range)#switchport mode access
msk-donskaya-baisaev-sw-4(config-if-range)#SPANNTREE-2-RECV_PVID_ERR: Received 802.1Q BPDU on non trunk FastEthernet0/1
VLAN1.
%SPANNTREE-2-BLOCK_PVID_LOCAL: Blocking FastEthernet0/1 on VLAN0001. Inconsistent port type.

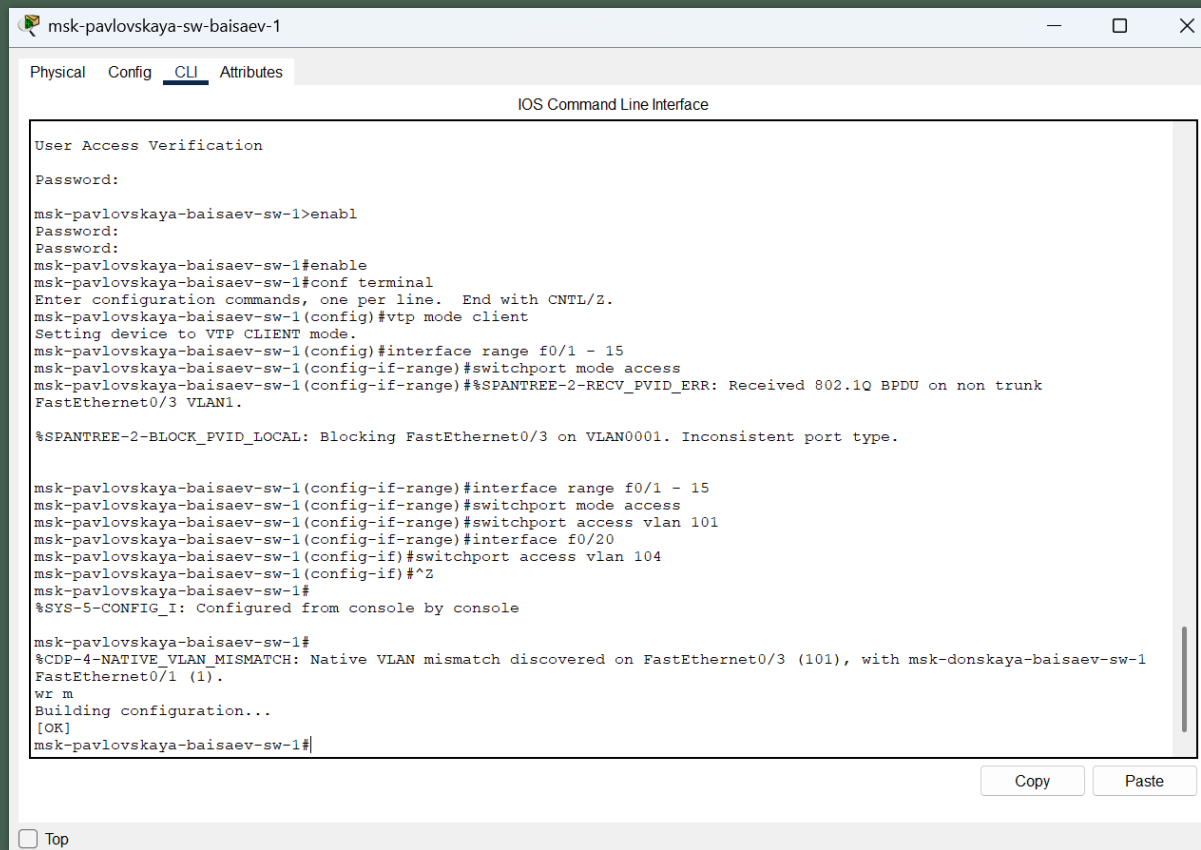
msk-donskaya-baisaev-sw-4(config-if-range)#switchport mode access
msk-donskaya-baisaev-sw-4(config-if-range)#switchport access vlan 101
msk-donskaya-baisaev-sw-4(config-if-range)#interface range f0/6 - 10
msk-donskaya-baisaev-sw-4(config-if-range)#switchport mode access
msk-donskaya-baisaev-sw-4(config-if-range)#switchport access vlan 102
msk-donskaya-baisaev-sw-4(config-if-range)#interface range f0/11 - 15
msk-donskaya-baisaev-sw-4(config-if-range)#switchport mode access
msk-donskaya-baisaev-sw-4(config-if-range)#
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/1 (101), with msk-donskaya-baisaev-sw-1
FastEthernet0/1 (1).
switchport mode access
msk-donskaya-baisaev-sw-4(config-if-range)#switchport mode access
msk-donskaya-baisaev-sw-4(config-if-range)#switchport access vlan 103
msk-donskaya-baisaev-sw-4(config-if-range)#interface range f0/16 - 24
msk-donskaya-baisaev-sw-4(config-if-range)#switchport mode access
msk-donskaya-baisaev-sw-4(config-if-range)#switchport access vlan 104
msk-donskaya-baisaev-sw-4(config-if-range)#^Z
msk-donskaya-baisaev-sw-4#
%SYS-5-CONFIG_I: Configured from console by console

msk-donskaya-baisaev-sw-4#wr m
Building configuration...
[OK]
msk-donskaya-baisaev-sw-4#sh r
Building configuration...

Current configuration : 2671 bytes
!
version 12.1
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname msk-donskaya-baisaev-sw-4
!
enable secret 5 $1$mERr5hx5rVt7rPN0S4wqbXXK7m0
!
!
ip domain-name donskeya.rudn.edu
!
username admin secret 5 $1$mERr5hx5rVt7rPN0S4wqbXXK7m0
!
!
spanning-tree mode pvst
--More--
```

Рис. 1.10. Настройка коммутатора msk-donskaya-baisaev-sw-4 как VTP-клиента и указание принадлежности к VLAN.

Настройка коммутатора как VTP-клиента



The screenshot shows a web-based configuration interface for a switch named 'msk-pavlovskaya-sw-baisaev-1'. The 'CLI' tab is active, displaying the 'IOS Command Line Interface'. The terminal output shows the following commands and messages:

```
User Access Verification
Password:
msk-pavlovskaya-baisaev-sw-1>enabl
Password:
msk-pavlovskaya-baisaev-sw-1#enable
msk-pavlovskaya-baisaev-sw-1#conf terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-pavlovskaya-baisaev-sw-1(config)#vtp mode client
Setting device to VTP CLIENT mode.
msk-pavlovskaya-baisaev-sw-1(config)#interface range f0/1 - 15
msk-pavlovskaya-baisaev-sw-1(config-if-range)#switchport mode access
msk-pavlovskaya-baisaev-sw-1(config-if-range)#%SPANTREE-2-RECV_PVID_ERR: Received 802.1Q BPDU on non trunk
FastEthernet0/3 VLAN1.

%SPANTREE-2-BLOCK_PVID_LOCAL: Blocking FastEthernet0/3 on VLAN0001. Inconsistent port type.

msk-pavlovskaya-baisaev-sw-1(config-if-range)#interface range f0/1 - 15
msk-pavlovskaya-baisaev-sw-1(config-if-range)#switchport mode access
msk-pavlovskaya-baisaev-sw-1(config-if-range)#switchport access vlan 101
msk-pavlovskaya-baisaev-sw-1(config-if-range)#interface f0/20
msk-pavlovskaya-baisaev-sw-1(config-if)#switchport access vlan 104
msk-pavlovskaya-baisaev-sw-1(config-if)#^Z
msk-pavlovskaya-baisaev-sw-1#
%SYS-5-CONFIG_I: Configured from console by console

msk-pavlovskaya-baisaev-sw-1#
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/3 (101), with msk-donskaya-baisaev-sw-1
FastEthernet0/1 (1).
wr m
Building configuration...
[OK]
msk-pavlovskaya-baisaev-sw-1#
```

At the bottom of the terminal window, there are 'Copy' and 'Paste' buttons. A 'Top' button is located at the bottom left of the window frame.

Рис. 1.11. Настройка коммутатора msk-pavlovskaya-baisaev-sw-1 как VTP-клиента и указание принадлежности к VLAN.

Указание статических IP-адресов

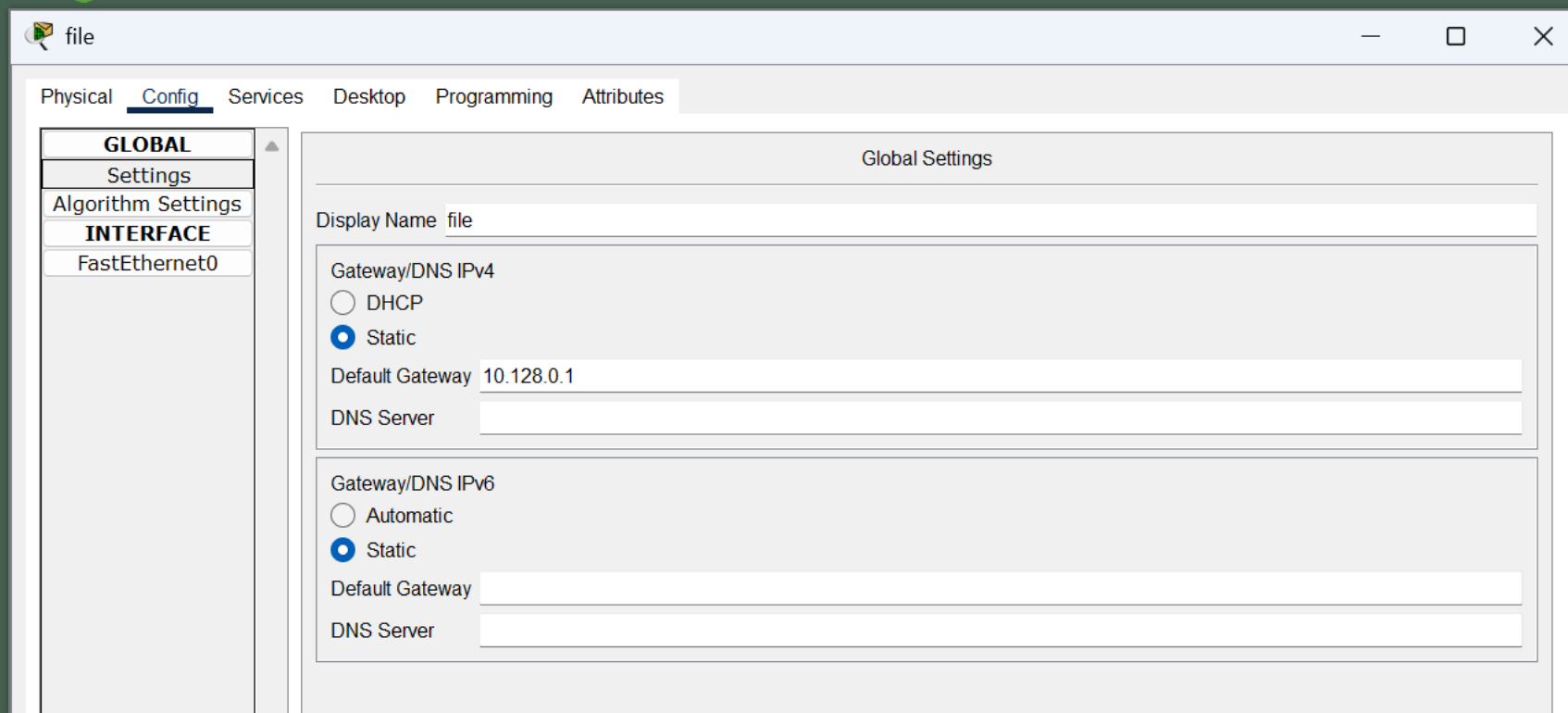


Рис. 1.12. Пример указания статического IP-адреса на оконечном устройстве (Default Gateway).

Указание статических IP-адресов

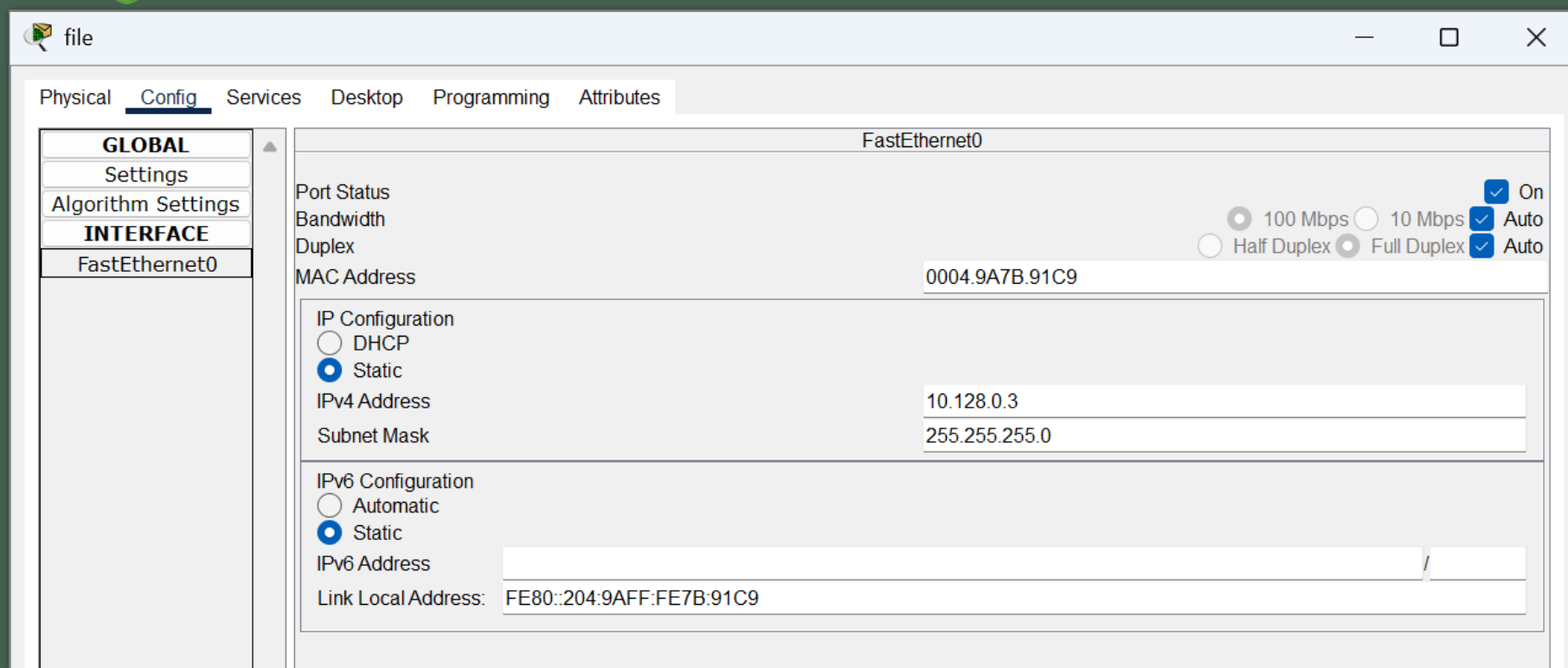
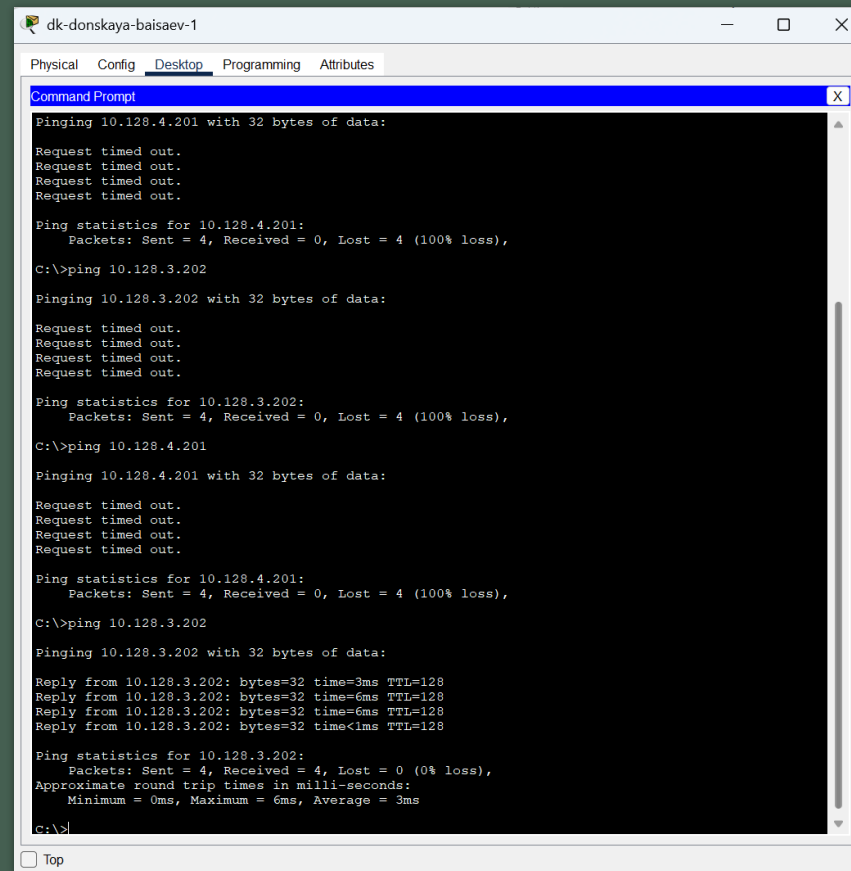


Рис. 1.13. Пример указания статического IP-адреса на оконечном устройстве (IP Configuration).

Ping (доступность/недоступность)



```
dk-donskaya-baisaev-1
Physical Config Desktop Programming Attributes
Command Prompt
Pinging 10.128.4.201 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 10.128.4.201:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 10.128.3.202

Pinging 10.128.3.202 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 10.128.3.202:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 10.128.4.201

Pinging 10.128.4.201 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 10.128.4.201:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>ping 10.128.3.202

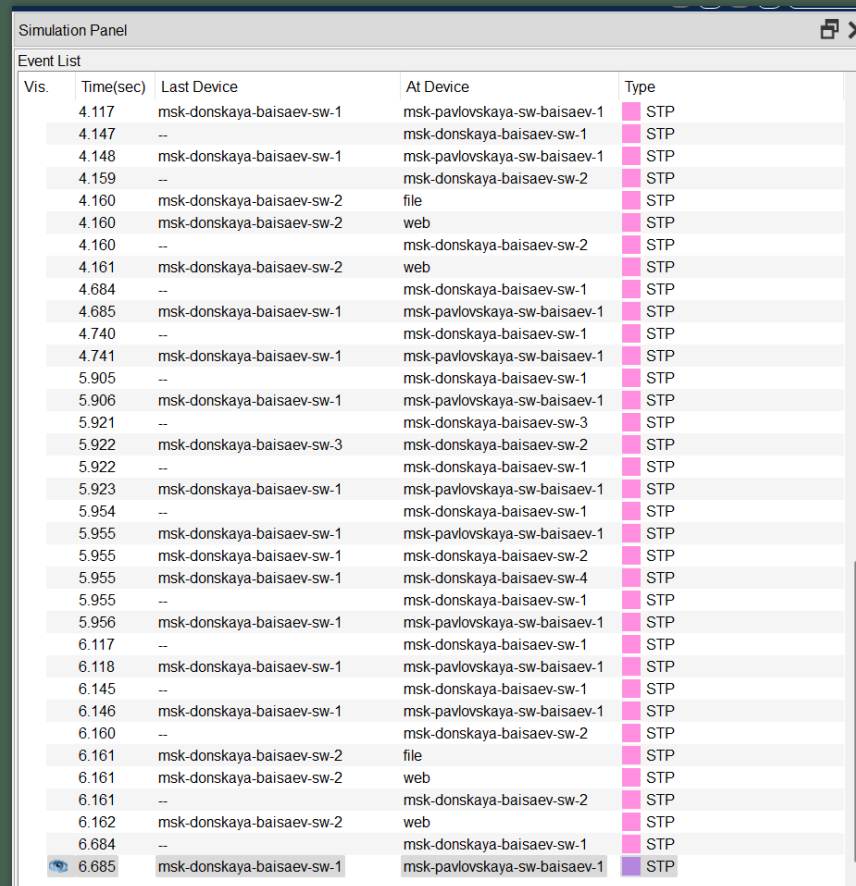
Pinging 10.128.3.202 with 32 bytes of data:
Reply from 10.128.3.202: bytes=32 time=3ms TTL=128
Reply from 10.128.3.202: bytes=32 time=6ms TTL=128
Reply from 10.128.3.202: bytes=32 time=6ms TTL=128
Reply from 10.128.3.202: bytes=32 time<1ms TTL=128

Ping statistics for 10.128.3.202:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 6ms, Average = 3ms

C:\>|
```

Рис. 1.14. Проверка доступности устройств, принадлежащих одному VLAN, и недоступность устройств, принадлежащих разным VLAN.

Режим симуляции в Packet Tracer, пакет ICMP



The screenshot shows the 'Simulation Panel' window in Packet Tracer. It contains an 'Event List' table with the following columns: 'Vis.', 'Time(sec)', 'Last Device', 'At Device', and 'Type'. The table lists 34 events, all of which are ICMP (STP) packets. The 'Last Device' and 'At Device' columns show the path of the packet through various switches in the network, such as msk-donskaya-baisaev-sw-1, msk-pavlovskaya-sw-baisaev-1, and msk-donskaya-baisaev-sw-2. The 'Type' column for all events is 'STP'.

Vis.	Time(sec)	Last Device	At Device	Type
	4.117	msk-donskaya-baisaev-sw-1	msk-pavlovskaya-sw-baisaev-1	STP
	4.147	--	msk-donskaya-baisaev-sw-1	STP
	4.148	msk-donskaya-baisaev-sw-1	msk-pavlovskaya-sw-baisaev-1	STP
	4.159	--	msk-donskaya-baisaev-sw-2	STP
	4.160	msk-donskaya-baisaev-sw-2	file	STP
	4.160	msk-donskaya-baisaev-sw-2	web	STP
	4.160	--	msk-donskaya-baisaev-sw-2	STP
	4.161	msk-donskaya-baisaev-sw-2	web	STP
	4.684	--	msk-donskaya-baisaev-sw-1	STP
	4.685	msk-donskaya-baisaev-sw-1	msk-pavlovskaya-sw-baisaev-1	STP
	4.740	--	msk-donskaya-baisaev-sw-1	STP
	4.741	msk-donskaya-baisaev-sw-1	msk-pavlovskaya-sw-baisaev-1	STP
	5.905	--	msk-donskaya-baisaev-sw-1	STP
	5.906	msk-donskaya-baisaev-sw-1	msk-pavlovskaya-sw-baisaev-1	STP
	5.921	--	msk-donskaya-baisaev-sw-3	STP
	5.922	msk-donskaya-baisaev-sw-3	msk-donskaya-baisaev-sw-2	STP
	5.922	--	msk-donskaya-baisaev-sw-1	STP
	5.923	msk-donskaya-baisaev-sw-1	msk-pavlovskaya-sw-baisaev-1	STP
	5.954	--	msk-donskaya-baisaev-sw-1	STP
	5.955	msk-donskaya-baisaev-sw-1	msk-pavlovskaya-sw-baisaev-1	STP
	5.955	msk-donskaya-baisaev-sw-1	msk-donskaya-baisaev-sw-2	STP
	5.955	msk-donskaya-baisaev-sw-1	msk-donskaya-baisaev-sw-4	STP
	5.955	--	msk-donskaya-baisaev-sw-1	STP
	5.956	msk-donskaya-baisaev-sw-1	msk-pavlovskaya-sw-baisaev-1	STP
	6.117	--	msk-donskaya-baisaev-sw-1	STP
	6.118	msk-donskaya-baisaev-sw-1	msk-pavlovskaya-sw-baisaev-1	STP
	6.145	--	msk-donskaya-baisaev-sw-1	STP
	6.146	msk-donskaya-baisaev-sw-1	msk-pavlovskaya-sw-baisaev-1	STP
	6.160	--	msk-donskaya-baisaev-sw-2	STP
	6.161	msk-donskaya-baisaev-sw-2	file	STP
	6.161	msk-donskaya-baisaev-sw-2	web	STP
	6.161	--	msk-donskaya-baisaev-sw-2	STP
	6.162	msk-donskaya-baisaev-sw-2	web	STP
	6.684	--	msk-donskaya-baisaev-sw-1	STP
	6.685	msk-donskaya-baisaev-sw-1	msk-pavlovskaya-sw-baisaev-1	STP

Рис. 1.15. Изучение процесса передвижения пакета ICMP (STP) по сети в режиме симуляции в Packet Tracer.

ВЫВОД

- В ходе выполнения лабораторной работы мы получили основные навыки по настройке VLAN на коммутаторах сети.

Спасибо за внимание!