

Лабораторная работа №5

Конфигурирование VLAN

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Информация

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Получить основные навыки по настройке VLAN на коммутаторах сети.

1. На коммутаторах сети настроить Trunk-порты на соответствующих интерфейсах, связывающих коммутаторы между собой.
2. Коммутатор msc-donskaya-sw-1 настроить как VTP-сервер и прописать на нём номера и названия VLAN.
3. Коммутаторы msc-donskaya-sw-2 — msc-donskaya-sw-4, msc-pavlovskaya-sw-1 настроить как VTP-клиенты, на интерфейсах указать принадлежность к соответствующему VLAN.
4. На серверах прописать IP-адреса.

5. На оконечных устройствах указать соответствующий адрес шлюза и прописать статические IP-адреса из диапазона соответствующей сети, следуя регламенту выделения ip-адресов.
6. Проверить доступность устройств, принадлежащих одному VLAN, и недоступность устройств, принадлежащих разным VLAN.
7. При выполнении работы необходимо учитывать соглашение об именовании.

User Access Verification

Password:

```
msc-donskaya-shuvayev-sw-1>enable
```

Password:

```
msc-donskaya-shuvayev-sw-1#configure terminal
```

Enter configuration commands, one per line. End with CNTL/Z.

```
msc-donskaya-shuvayev-sw-1(config)#interface g0/1
```

```
msc-donskaya-shuvayev-sw-1(config-if)#switchport mode trunk
```

```
msc-donskaya-shuvayev-sw-1(config-if)#
```

```
%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
```

```
msc-donskaya-shuvayev-sw-1(config-if)#interface g0/2
```

```
msc-donskaya-shuvayev-sw-1(config-if)#switchport mode trunk
```

```
msc-donskaya-shuvayev-sw-1(config-if)#
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to down
```

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up
```

Figure 1: Настройка Trunk-порта на msc-donskaya-shuvayev-sw-1

```
msc-donskaya-shuvayev-sw-2>enable
Password:
msc-donskaya-shuvayev-sw-2#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
msc-donskaya-shuvayev-sw-2(config)#
msc-donskaya-shuvayev-sw-2(config)#interface g0/1
msc-donskaya-shuvayev-sw-2(config-if)#switchport mode trunk
msc-donskaya-shuvayev-sw-2(config-if)#interface g0/2
msc-donskaya-shuvayev-sw-2(config-if)#switchport mode trunk

msc-donskaya-shuvayev-sw-2(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/2, changed state to up
```

Figure 2: Настройка Trunk-порта на msc-donskaya-shuvayev-sw-2


```
msc-donskaya-shuvayev-sw-3#wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-3#
msc-donskaya-shuvayev-sw-3#enable
msc-donskaya-shuvayev-sw-3#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msc-donskaya-shuvayev-sw-3(config)#interface g0/1
msc-donskaya-shuvayev-sw-3(config-if)#switchport mode trunk
msc-donskaya-shuvayev-sw-3(config-if)#exit
msc-donskaya-shuvayev-sw-3(config)#exit
msc-donskaya-shuvayev-sw-3#
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-3#wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-3#
```

Figure 3: Настройка Trunk-порта на msc-donskaya-shuvayev-sw-3

User Access Verification

Password:

```
msc-donskaya-shuvayev-sw-4>enable
```

Password:

```
msc-donskaya-shuvayev-sw-4#conf t
```

Enter configuration commands, one per line. End with CNTL/Z.

```
msc-donskaya-shuvayev-sw-4(config)#interface g0/1
```

```
msc-donskaya-shuvayev-sw-4(config-if)#switchport mode trunk
```

```
msc-donskaya-shuvayev-sw-4(config-if)#exit
```

```
msc-donskaya-shuvayev-sw-4(config)#exit
```

```
msc-donskaya-shuvayev-sw-4#
```

```
%SYS-5-CONFIG_I: Configured from console by console
```

```
wr m
```

Building configuration...

[OK]

```
msc-donskaya-shuvayev-sw-4#wr m
```

Building configuration...

[OK]

```
msc-donskaya-shuvayev-sw-4#
```

Figure 4: Настройка Trunk-порта на msc-donskaya-shuvayev-sw-4

```
msc-donskaya-shuvayev-sw-1#enable
Password:
msc-donskaya-shuvayev-sw-1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
msc-donskaya-shuvayev-sw-1(config)#interface f0/1
msc-donskaya-shuvayev-sw-1(config-if)#switchport mode trunk
                                     ^
% Invalid input detected at '^' marker.

msc-donskaya-shuvayev-sw-1(config-if)#switchport mode trunk
msc-donskaya-shuvayev-sw-1(config-if)#exit
msc-donskaya-shuvayev-sw-1(config)#exit
msc-donskaya-shuvayev-sw-1#
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-1#wr m
Building configuration...
[OK]
```

Figure 5: Настройка Trunk-порта на msc-donskaya-shuvayev-sw-1

```
m-sc-pavlovskaya-shuvayev-sw1>enable
Password:
m-sc-pavlovskaya-shuvayev-sw1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
m-sc-pavlovskaya-shuvayev-sw1(config)#interface f0/24
m-sc-pavlovskaya-shuvayev-sw1(config-if)#switchport mode trunk
m-sc-pavlovskaya-shuvayev-sw1(config-if)#exit
m-sc-pavlovskaya-shuvayev-sw1(config)#exit
m-sc-pavlovskaya-shuvayev-sw1#
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
m-sc-pavlovskaya-shuvayev-sw1#wr m
Building configuration...
[OK]
m-sc-pavlovskaya-shuvayev-sw1#
```

Figure 6: Настройка Trunk-порта на m-sc-pavlovskaya-shuvayev-sw-1

```
msc-donskaya-shuvayev-sw-1 (config-vlan) #name management
msc-donskaya-shuvayev-sw-1 (config-vlan) #vlan 3
msc-donskaya-shuvayev-sw-1 (config-vlan) #name servers
msc-donskaya-shuvayev-sw-1 (config-vlan) #vlan 101
msc-donskaya-shuvayev-sw-1 (config-vlan) #name dk
msc-donskaya-shuvayev-sw-1 (config-vlan) #vlan 102
msc-donskaya-shuvayev-sw-1 (config-vlan) #name departaments
msc-donskaya-shuvayev-sw-1 (config-vlan) #vlan 103
msc-donskaya-shuvayev-sw-1 (config-vlan) #name adm
msc-donskaya-shuvayev-sw-1 (config-vlan) #vlan 104
msc-donskaya-shuvayev-sw-1 (config-vlan) #name other
msc-donskaya-shuvayev-sw-1 (config-vlan) #exit
msc-donskaya-shuvayev-sw-1 (config) #exit
msc-donskaya-shuvayev-sw-1 #
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-1#wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-1#
```

Figure 7: Задания VLAN

```
msc-donskaya-shuvayev-sw-1#sh vlan
```

VLAN	Name	Status	Ports
1	default	active	Fa0/2, Fa0/3, 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
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	Trans1	Trans2
--More--										

Figure 8: Команда show vlan

```
msc-donskaya-shuvayev-sw-1(config)#vtp domain donskaya
Domain name already set to donskaya.
msc-donskaya-shuvayev-sw-1(config)#vtp mode server
Device mode already VTP SERVER.
msc-donskaya-shuvayev-sw-1(config)#vtp password cisco
Password already set to cisco
msc-donskaya-shuvayev-sw-1(config)#wr m
      ^
% Invalid input detected at '^' marker.

msc-donskaya-shuvayev-sw-1(config)#exit
msc-donskaya-shuvayev-sw-1#
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-1#
```

Figure 9: Конфигурация VTP msc-donskaya-shuvayev-sw-1

```
msc-donskaya-shuvayev-sw-2>enable
Password:
msc-donskaya-shuvayev-sw-2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msc-donskaya-shuvayev-sw-2(config)#vtp domain donskaya
Domain name already set to donskaya.
msc-donskaya-shuvayev-sw-2(config)#vtp mode client
Setting device to VTP CLIENT mode.
msc-donskaya-shuvayev-sw-2(config)#vtp password cisco
Setting device VLAN database password to cisco
msc-donskaya-shuvayev-sw-2(config)#
%LINK-5-CHANGED: Interface Vlan2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan2, changed state to up
wr m
^
% Invalid input detected at '^' marker.

msc-donskaya-shuvayev-sw-2(config)#exit
msc-donskaya-shuvayev-sw-2#
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-2#wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-2#
```

Figure 10: Конфигурация VTP msc-donskaya-shuvayev-sw-2

User Access Verification

Password:

```
msc-donskaya-shuvayev-sw-3>conf t
```

^

% Invalid input detected at '^' marker.

```
msc-donskaya-shuvayev-sw-3>enable
```

Password:

```
msc-donskaya-shuvayev-sw-3#conf t
```

Enter configuration commands, one per line. End with CNTL/Z.

```
msc-donskaya-shuvayev-sw-3(config)#vtp mode client
```

Setting device to VTP CLIENT mode.

```
msc-donskaya-shuvayev-sw-3(config)#vtp password cisco
```

Setting device VLAN database password to cisco

```
msc-donskaya-shuvayev-sw-3(config)#
```

%LINK-5-CHANGED: Interface Vlan2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan2, changed state to up

```
wr m
```

^

% Invalid input detected at '^' marker.

```
msc-donskaya-shuvayev-sw-3(config)#exit
```

```
msc-donskaya-shuvayev-sw-3#
```

%SYS-5-CONFIG_I: Configured from console by console

```
wr m
```

Building configuration...

[OK]

```
msc-donskaya-shuvayev-sw-3#wr m
```

Building configuration...

[OK]

```
msc-donskaya-shuvayev-sw-3#
```

```
User Access Verification

Password:

msc-donskaya-shuvayev-sw-4>enable
Password:
msc-donskaya-shuvayev-sw-4#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
msc-donskaya-shuvayev-sw-4(config)#vtp mode client
Setting device to VTP CLIENT mode.
msc-donskaya-shuvayev-sw-4(config)#vtp password cisco
Setting device VLAN database password to cisco
msc-donskaya-shuvayev-sw-4(config)#
%LINK-5-CHANGED: Interface Vlan2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan2, changed state to up
exit
msc-donskaya-shuvayev-sw-4#
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-4#wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-4#
```

Figure 12: Конфигурация VTP msc-donskaya-shuvayev-sw-4

```
nsc-donskaya-shuvayev-sw-4>sh vtp status
VTP Version                : 1
Configuration Revision      : 12
Maximum VLANs supported locally : 255
Number of existing VLANs    : 11
VTP Operating Mode          : Client
VTP Domain Name             : donsкаya
VTP Pruning Mode            : Disabled
VTP V2 Mode                 : Disabled
VTP Traps Generation        : Disabled
MD5 digest                  : 0xB0 0x9B 0x52 0xFA 0x17 0xC7 0xE3 0x7B
Configuration last modified by 10.128.1.2 at 3-1-93 00:55:45
nsc-donskaya-shuvayev-sw-4>
```

Figure 13: vtp status

```
msc-donskaya-shuvayev-sw-4>sh vlan
```

VLAN	Name	Status	Ports
1	default	active	Fa0/2, Fa0/3, Fa0/4, Fa0/5 Fa0/7, Fa0/8, Fa0/9, Fa0/10 Fa0/12, Fa0/13, Fa0/14, Fa0/15 Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Fa0/24 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	Trans1	Trans2
--More--										

Figure 14: Проверка отображения VLAN

```
msc-pavlovskaya-shuvayev-sw1>enable
Password:
msc-pavlovskaya-shuvayev-sw1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msc-pavlovskaya-shuvayev-sw1(config)#vtp mode client
Setting device to VTP CLIENT mode.
msc-pavlovskaya-shuvayev-sw1(config)#vtp password cisco
Setting device VLAN database password to cisco
msc-pavlovskaya-shuvayev-sw1(config)#
%LINK-5-CHANGED: Interface Vlan2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan2, changed state to up

msc-pavlovskaya-shuvayev-sw1(config)#exit
msc-pavlovskaya-shuvayev-sw1#
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
msc-pavlovskaya-shuvayev-sw1#wr m
Building configuration...
[OK]
msc-pavlovskaya-shuvayev-sw1#
```

Figure 15: Конфигурация VTP msc-pavlovskaya-shuvayev-sw-1

Выполнение лабораторной работы

Выполним эту конфигурацию в соответствии с таблицей:

Table 1: Таблица портов

Устройство	Порт	Примечание	Access	
			VLAN	Trunk VLAN
msc-donskaya-shuvayev-gw-1	f0/1	UpLink		
	f0/0	msc-donskaya-sw-1		2, 3, 101, 102, 103, 104
msc-donskaya-shuvayev-sw-1	f0/24	msc-donskaya-gw-1		2, 3, 101, 102, 103, 104
	g0/1	msc-donskaya-sw-2		2, 3
	g0/2	msc-donskaya-		2 101 102 103 104

```
msc-donskaya-shuvayev-sw-4(config-if-range)#switchport mode access
msc-donskaya-shuvayev-sw-4(config-if-range)#switchport access vlan 101
msc-donskaya-shuvayev-sw-4(config-if-range)#interface range f0/6-10
msc-donskaya-shuvayev-sw-4(config-if-range)#switchport mode access
msc-donskaya-shuvayev-sw-4(config-if-range)#switchport access vlan 102
msc-donskaya-shuvayev-sw-4(config-if-range)#interface range f0/11-15
msc-donskaya-shuvayev-sw-4(config-if-range)#switchport mode access
msc-donskaya-shuvayev-sw-4(config-if-range)#switchport access vlan 103
msc-donskaya-shuvayev-sw-4(config-if-range)#interface range f0/16-24
msc-donskaya-shuvayev-sw-4(config-if-range)#switchport mode access
msc-donskaya-shuvayev-sw-4(config-if-range)#
msc-donskaya-shuvayev-sw-4(config-if-range)#switchport access vlan 104
msc-donskaya-shuvayev-sw-4(config-if-range)#exit
msc-donskaya-shuvayev-sw-4(config)#wr m
                                     ^
% Invalid input detected at '^' marker.

msc-donskaya-shuvayev-sw-4(config)#exit
msc-donskaya-shuvayev-sw-4#
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-4#wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-4#
```

Figure 16: Конфигурация диапазона портов и указание принадлежности к VLAN для

```
User Access Verification

Password:

msc-pavlovskaya-shuvayev-sw1>enable
Password:
msc-pavlovskaya-shuvayev-sw1#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
msc-pavlovskaya-shuvayev-sw1(config)#
msc-pavlovskaya-shuvayev-sw1(config)#interface range f0/1-15
msc-pavlovskaya-shuvayev-sw1(config-if-range)#switchport mode access
msc-pavlovskaya-shuvayev-sw1(config-if-range)#switchport access vlan 101
msc-pavlovskaya-shuvayev-sw1(config-if-range)#interface range f0/20
msc-pavlovskaya-shuvayev-sw1(config-if-range)#switchport mode access
msc-pavlovskaya-shuvayev-sw1(config-if-range)#switchport access vlan 104
msc-pavlovskaya-shuvayev-sw1(config-if-range)#exit
msc-pavlovskaya-shuvayev-sw1(config)#exit
msc-pavlovskaya-shuvayev-sw1#
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
msc-pavlovskaya-shuvayev-sw1#wr m
Building configuration...
[OK]
msc-pavlovskaya-shuvayev-sw1#
```

Figure 17: Конфигурация диапазона портов и указание принадлежности к VLAN для msc-pavlovskaya-shuvayev-sw-1


```
User Access Verification

Password:

msc-donskaya-shuvayev-sw-2>enable
Password:
msc-donskaya-shuvayev-sw-2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
msc-donskaya-shuvayev-sw-2(config)#interface range f0/1 - 2
msc-donskaya-shuvayev-sw-2(config-if-range)#switchport mode acces
msc-donskaya-shuvayev-sw-2(config-if-range)#switchport acces vlan 3
msc-donskaya-shuvayev-sw-2(config-if-range)#exit
msc-donskaya-shuvayev-sw-2(config)#exit
msc-donskaya-shuvayev-sw-2#
%SYS-5-CONFIG_I: Configured from console by console
wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-2#wr m
Building configuration...
[OK]
msc-donskaya-shuvayev-sw-2#
```

Figure 18: Конфигурация диапазона портов и указание принадлежности к VLAN для msc-donskaya-shuvayev-sw-2

User Access Verification

Password:

```
msc-donskaya-shuvayev-sw-3>enable
```

Password:

```
msc-donskaya-shuvayev-sw-3#conf t
```

Enter configuration commands, one per line. End with CNTL/Z.

```
msc-donskaya-shuvayev-sw-3(config)#interface f0/1
```

```
msc-donskaya-shuvayev-sw-3(config-if)#switchport mode access
```

```
msc-donskaya-shuvayev-sw-3(config-if)#switchport access vlan 3
```

```
msc-donskaya-shuvayev-sw-3(config-if)#exit
```

```
msc-donskaya-shuvayev-sw-3(config)#exit
```

```
msc-donskaya-shuvayev-sw-3#
```

```
%SYS-5-CONFIG_I: Configured from console by console
```

```
wr m
```

Building configuration...

[OK]

```
msc-donskaya-shuvayev-sw-3#wr m
```

Building configuration...

[OK]

```
msc-donskaya-shuvayev-sw-3#
```

Figure 19: Конфигурация диапазона портов и указание принадлежности к VLAN для msc-donskaya-shuvayev-sw-3

Задавать IP-адреса будем в соответствии с таблицей:

Table 2: Таблица IP. Сеть 10.128.0.0/16

IP-адреса	Примечание	VLAN
10.128.0.0/16	Вся сеть	
10.128.0.0/24	Серверная ферма	3
10.128.0.1	Шлюз	
10.128.0.2	Web	
10.128.0.3	File	

The screenshot shows a web-based configuration interface for a network device. The top navigation bar includes tabs for Physical, Config (selected), Services, Desktop, Programming, and Attributes. On the left, a sidebar menu shows a tree structure with 'GLOBAL' (containing 'Settings' and 'Algorithm Settings') and 'INTERFACE' (containing 'FastEthernet0'). The main area is titled 'Global Settings' and contains two sections: 'Gateway/DNS IPv4' and 'Gateway/DNS IPv6'. In the IPv4 section, 'Static' is selected, and the 'Default Gateway' is set to '10.128.0.2'. The IPv6 section has 'Static' selected, but its fields are empty.

web

Physical Config Services Desktop Programming Attributes

GLOBAL

- Settings
- Algorithm Settings

INTERFACE

- FastEthernet0

Global Settings

Display Name

Gateway/DNS IPv4

☐ DHCP

☒ Static

Default Gateway

DNS Server

Gateway/DNS IPv6

☐ Automatic

☒ Static

Default Gateway

DNS Server

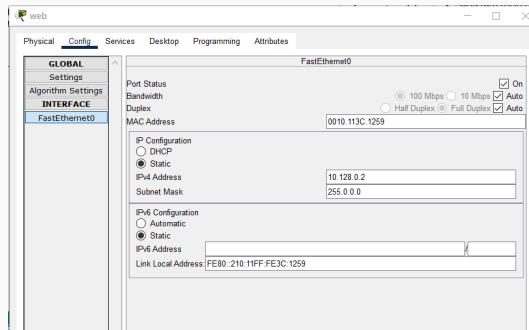


Figure 21: Задание IP-адреса

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ipconfig

FastEthernet0 Connection:(default port)

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: FE80::240:BFF:FED4:15BA
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 10.128.3.201
    Subnet Mask . . . . .: 255.255.255.0
    Default Gateway . . . . .: ::
                                   10.128.3.1

Bluetooth Connection:

    Connection-specific DNS Suffix...:
    Link-local IPv6 Address . . . . .: ::
    IPv6 Address . . . . .: ::
    IPv4 Address . . . . .: 0.0.0.0
    Subnet Mask . . . . .: 0.0.0.0
    Default Gateway . . . . .: ::
                                   0.0.0.0
```

Figure 22: ipconfig

```
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<1ms TTL=128
Reply from 10.128.3.202: bytes=32 time<1ms TTL=128
Reply from 10.128.3.202: bytes=32 time<1ms 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 = 0ms, Average = 0ms

C:\>10.128.4.201
Invalid Command.

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),
```

Figure 23: Пингование

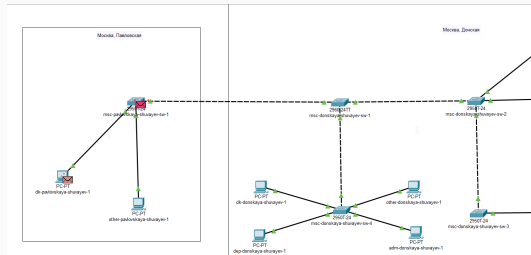


Figure 24: Режим симуляции

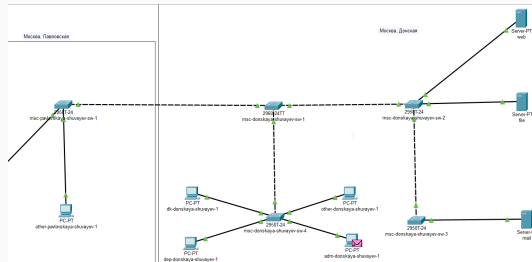


Figure 25: Режим симуляции

В процессе выполнения данной лабораторной работы я получил основные навыки по настройке VLAN на коммутаторах сети.