# Лабораторная работа №5

Конфигурирование VLAN

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Получить основные навыки по настройке VLAN на коммутаторах сети.

#### Задание

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

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- 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

Откроем файл .pkt, сделанный в предыдущей лабораторной работе, где у нас уже размещены и подключены устройства, и начнем выполнять конфигурацию VLAN.

Используя приведённую в файле лабораторной работы последовательность команд из примера по конфигурации Trunk-порта на интерфейсе g0/1 коммутатора msk-donskaya-sw-1, настроем Trunk-порты на соответствующих интерфейсах всех коммутаторов..

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

msk-donskaya-cahanqirov-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
msk-donskaya-cahanqirov-sw-1(config-if)#interface g0/2
msk-donskaya-cahanqirov-sw-1(config-if)#switchport mode trunk

msk-donskaya-cahanqirov-sw-1(config-if)#
```

msk-donskava-cahangirov-sw-2# wr m

```
Password:
msk-donskava-cahangirov-sw-2#enable
msk-donskaya-cahangirov-sw-2#confgure terminal
% Invalid input detected at '^' marker.
msk-donskava-cahangirov-sw-2#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskava-cahangirov-sw-2(config)#interface g0/1
msk-donskava-cahangirov-sw-2(config-if) #switchport mode trunk
msk-donskava-cahangirov-sw-2(config-if)#interface g0/2
msk-donskava-cahangirov-sw-2(config-if) #switchport mode trunk
msk-donskava-cahangirov-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
msk-donskava-cahangirov-sw-2(config-if) #exit
msk-donskava-cahangirov-sw-2(config) #exit
msk-donskaya-cahanqirov-sw-2#
%SYS-5-CONFIG I: Configured from console by console
```

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

Figure 3: Настройка Trunk-порта на msk-donskaya-cahanqirov-sw-3

```
Password:
msk-donskaya-cahangirov-sw-4>enable
Password:
msk-donskaya-cahangirov-sw-4#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskava-cahangirov-sw-4(config)#interface g0/1
msk-donskava-cahangirov-sw-4(config-if) #switchport mode trunk
msk-donskaya-cahangirov-sw-4(config-if) #exit
msk-donskava-cahangirov-sw-4(config) #exit
msk-donskava-cahangirov-sw-4#
%SYS-5-CONFIG I: Configured from console by console
msk-donskaya-cahangirov-sw-4#wr m
Building configuration ...
LOK1
msk-donskaya-cahanqirov-sw-4#
```

Figure 4: Настройка Trunk-порта на msk-donskaya-cahanqirov-sw-4

```
msk-pavlovskaya-cahangirov-sw-l#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-pavlovskaya-cahangirov-sw-1(config)#interface f0/24
msk-pavlovskaya-cahanqirov-sw-1(config-if) #switchport mode trunk
msk-pavlovskava-cahangirov-sw-1(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed
state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/24, changed
state to up
msk-pavlovskava-cahangirov-sw-1#
%SYS-5-CONFIG I: Configured from console by console
msk-pavlovskaya-cahangirov-sw-1#wr m
Building configuration ...
[OK]
msk-pavlovskaya-cahangirov-sw-1#
```

Figure 5: Настройка Trunk-порта на msk-donskaya-cahanqirov-sw-1

```
msk-pavlovskava-cahangirov-sw-1>enable
Password:
Password:
msk-pavlovskava-cahangirov-sw-l#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-pavlovskaya-cahanqirov-sw-1(config) #interface g0/1
msk-pavlovskaya-cahangirov-sw-l(config-if) #switchport mode trunk
msk-pavlovskaya-cahanqirov-sw-1(config-if)#
msk-pavlovskaya-cahangirov-sw-1(config-if) #exit
msk-pavlovskava-cahangirov-sw-1(config) #exit
msk-pavlovskaya-cahangirov-sw-1#
%SYS-5-CONFIG I: Configured from console by console
msk-pavlovskaya-cahanqirov-sw-1# wr m
Building configuration...
[OK]
msk-pavlovskava-cahangirov-sw-1#
```

Figure 6: Настройка Trunk-порта на msk-pavlovskaya-cahanqirov-sw-1

```
msk-paylovskava-cahangirov-sw-1#sh vlan
VI.AN Name
                                                Ports
    default
                                      active
                                               Fa0/1, 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, Gig0/1
                                                G1 00 / 2
1002 fddi-default
                                     active
1003 token-ring-default
                                     active
1004 fddinet-default
                                      active
1005 trnet-default
                                      active
VIAN Type SATD
                           Parent RingNo BridgeNo Stp. BrdgMode Transl Trans2
    enet 100001
1002 #ddi 101002
1003 tr 101003
                     1500 -
1004 fdnet 101004
                     1500 -
                                                  iccc -
1005 trnet 101005
                     1500 -
                                                  ibm -
VIAN Type SATE
                     MTH Parent RingNo BridgeNo Stn BrdgMode Transl Trans2
Remote SPAN VLANS
Primary Secondary Type
                                    Ports
msk-pavlovskava-cahangirov-sw-1#
msk-pavlovskaya-cahangirov-sw-1#
msk-paylovskava-cahangirov-sw-1#
msk-paylovskava-cahangirov-sw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-pavlovskaya-cahanqirov-sw-1(config) #vlan 2
msk-paylovskaya-cahangirov-sw-1(config-ylan)#
%LINK-5-CHANGED: Interface Vlan2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan2, changed state to up
msk-paylovskaya-cahangirov-sw-1(config-vlan) #name managment
msk-paylovskava-cahangirov-sw-1(config-vlan) #vlan 3
msk-pavlovskava-cahangirov-sw-l(config-vlan) #name service
msk-pavlovskava-cahangirov-sw-1(config-vlan)#vlan 101
msk-paylovskava-cahangirov-sw-l(config-ylan) iname dk
msk-paylovskava-cahangirov-sw-1(config-vlan) #vlan 102
msk-paylovskava-cahangirov-sw-1(config-vlan) #name departments
msk-pavlovskaya-cahanqirov-sw-1(config-vlan)#vlan 103
```

```
msk-pavlovskava-cahangirov-sw-1(config-vlan)#name other
msk-pavlovskava-cahangirov-sw-1(config-vlan) #^Z
msk-pavlovskava-cahangirov-sw-1#
%SYS-5-CONFIG I: Configured from console by console
msk-pavlovskava-cahangirov-sw-l#wr mem
Building configuration ...
msk-paylovskava-cahangirov-sw-l#sh vlan
    default
                                               Fa0/1, 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, Gig0/1
                                               Giq0/2
     managment
                                     active
     service
                                     active
101 dk
                                     active
102 departments
                                     active
103 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 Stn BrdgMode Transl Trans2
     enet 100001
    enet 100002
    enet 100003
101 enet
          100101
102 enet
          100102
103 enet 100103
1002 fddi 101002
1003 tr
          101003
1004 fdnet 101004
                     1500 -
                                                  ieee -
1005 trnet 101005
VIAN Type SAID
                     MTU Parent RingNo BridgeNo Stp BrdgMode Transl Trans2
Remote SPAN VLANS
```

Ports

Primary Secondary Type

```
msk-donskaya-cahangirov-sw-l# conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskava-cahangirov-sw-1(config) #vtp domain donskava
Changing VTP domain name from NULL to donskava
msk-donskaya-cahanqirov-sw-l(config) #vtp mode server
Device mode already VTP SERVER.
msk-donskaya-cahangirov-sw-l(config) #vtp password cidco
Setting device VLAN database password to cidco
msk-donskava-cahangirov-sw-1(config) #^Z
msk-donskava-cahangirov-sw-1#
%SYS-5-CONFIG I: Configured from console by console
msk-donskava-cahangirov-sw-1#wr m
Building configuration ...
[OK]
msk-donskaya-cahangirov-sw-1#
```

Figure 9: Конфигурация VTP msk-donskaya-cahangirov-sw-1

Благодаря протоколу VTP мы можем задать VLAN только на сервере, тогда на клиентах будут <sub>1</sub>

```
msk-donskava-cahangirov-sw-2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskava-cahangirov-sw-2(config) toto domain donskava
Domain name already set to donskava.
msk-donskava-cahangirov-sw-2(config) #vtp mode client
Setting device to VTP CLIENT mode.
msk-donskava-cahangirov-sw-2(config)#^Z
msk-donskaya-cahangirov-sw-2#
%SYS-5-CONFIG I: Configured from console by console
msk-donskava-cahangirov-sw-2#wr m
Building configuration ...
msk-donskava-cahangirov-sw-2#sh vlan
                                    Status
                                              Ports
    default
                                              Fa0/1, 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
    managment
                                    active
    service
                                    active
101 dk
                                    active
102 departments
                                    active
103 adm
                                    active
1002 fddi-default
                                    active
1003 token-ring-default
                                    active
1004 fddinet-default
                                    active
1005 trnet-default
                                    active
                     MTH Parent BingNo BridgeNo Stn BrdgMode Transl Trans2
          100001
    enet 100002
                     1500 -
    enet 100003
                     1500 -
101 enet 100101
                     1500 -
102 enet 100102
                     1500 -
103 enet 100103
                     1500 -
1002 fddi 101002
                     1500 -
1003 tr
          101003
                     1500 -
1004 fdnet 101004
                     1500 -
                                                 ieee -
1005 trnet 101005
                     1500 -
VLAN Type SAID
                     MTH Parent RingNo BridgeNo Stp BrdgMode Transl Trans2
```

Remote SPAN VLANS

Figure 11: Конфигурация VTP msk-donskaya-cahanqirov-sw-3

Hactpoeм msk-donskaya-cahanqirov-sw-4 как VTP-клиент:

```
msk-donskaya-cahanqirov-sw-4>enable
Password:
Password:
msk-donskaya-cahanqirov-sw-4#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-cahanqirov-sw-4(config)# vtp mode client
Setting device to VTP CLIENT mode.
msk-donskaya-cahanqirov-sw-4(config)#vtp password cisco
Setting device VLAN database password to cisco
msk-donskaya-cahanqirov-sw-4(config)#^Z
```

Figure 12: Конфигурация VTP msk-donskaya-cahanqirov-sw-4

Посмотрим vtp статус, увидим, что у нас подключено 11 VLAN, и устройство является клиентом:

```
msk-donskaya-cahangirov-sw-4#sh vtp status
VTP Version
Configuration Revision : 11
Maximum VLANs supported locally : 255
Number of existing VLANs : 10
VTP Operating Mode : Client
VTP Domain Name : donskava
VTP Pruning Mode
                          : Disabled
VTP V2 Mode
                   : Disabled
VTP Traps Generation : Disabled
MD5 digest
                          : 0x92 0xE2 0x45 0xAF 0x40 0x83 0x05 0x30
Configuration last modified by 10.128.1.6 at 3-1-93 01:57:57
msk-donskava-cahangirov-sw-4#
```

Figure 13: vtp status

Проверим, что у нас отображаются нужные VLAN:

| VLAN  | Name             |    | Status | Ports    |          |               |
|-------|------------------|----|--------|----------|----------|---------------|
|       |                  |    |        |          |          |               |
| 1     | default          |    | active | F=0/1    | F=0/2 F= | 0/3, Fa0/4    |
| -     | deladio          |    | active |          |          | 0/7, Fa0/8    |
|       |                  |    |        |          |          | a0/11, Fa0/12 |
|       |                  |    |        |          | Fa0/14,  |               |
| Fa0/  | 16               |    |        | 140/15,  | 140/11,  | 140/13,       |
| Lao,  | 10               |    |        | Fa0/17   | Fa0/18,  | Fa0/19        |
| Fa0/  | 20               |    |        | 140/1/,  | 140/10,  | 140/15,       |
| 140/. | 20               |    |        | Fa0/21.  | Fa0/22,  | Fa0/23.       |
| Fa0/  | 2.4              |    |        | 140, 11, | 140,22,  | 20,20,        |
| 200,  |                  |    |        | Gig0/2   |          |               |
| 2     | managment        |    | active |          |          |               |
|       | service          |    | active |          |          |               |
| 101   | dk               |    | active |          |          |               |
| 102   | departments      |    | active |          |          |               |
| 103   | adm              |    | active |          |          |               |
| 1002  | fddi-default     |    | active |          |          |               |
| 1003  | token-ring-defau | lt | active |          |          |               |
| 1004  | fddinet-default  |    | active |          |          |               |
| 1005  | trnet-default    |    | active |          |          |               |

```
Password:
msk-navlovskava-cahangirov-sw-l>enable
Password:
msk-pavlovskava-cahangirov-sw-1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-paylovskaya-cahangirov-sw-1(config) #ytp mode client
Setting device to VTP CLIENT mode.
msk-pavlovskava-cahangirov-sw-1(config) #vtp password cisco
Setting device VLAN database password to cisco
msk-pavlovskaya-cahangirov-sw-1(config) #^Z
msk-pavlovskaya-cahangirov-sw-1#
%SYS-5-CONFIG I: Configured from console by console
msk-pavlovskaya-cahangirov-sw-1#wr m
Building configuration ...
msk-pavlovskava-cahangirov-sw-l#sh vtp status
UTP Version
                                : 1
Configuration Revision
Maximum VLANs supported locally : 255
Number of existing VLANs
                               : 10
VTP Operating Mode
                               : Client
VTP Domain Name
                               : donskava
VTP Pruning Mode
                               : Disabled
VTP V2 Mode
                               : Disabled
VTP Traps Generation
                               : Disabled
MD5 digest
                               . 0992 09E2 0945 09AF 0940 0983 0905 0930
Configuration last modified by 10,128,1,6 at 3-1-93 01:57:57
msk-paylovskava-cahangirov-sw-l#sh vlan
VLAN Name
                                      Status
                                               Ports
    default
                                      active
                                               Fa0/1, 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, Gig0/1
                                                Gia0/2
     managment
                                      active
     service
                                      active
101 dk
                                      active
102 departments
                                      active
103 other
                                      active
1002 fddi-default
                                      active
1003 token-ring-default
                                      active
1004 fddinet-default
                                      active
1005 trnet-default
                                      active
```

Table 1: Таблица портов

|                                  |       |                       | Access |                          |     |
|----------------------------------|-------|-----------------------|--------|--------------------------|-----|
| Устройство                       | Порт  | Примечание            | VLAN   | Trunk VLAN               |     |
| msk-donskaya-cahanqirov-         | f0/1  | UpLink                |        |                          | _   |
| gw-1                             | f0/0  | msk-donskaya-<br>sw-1 |        | 2, 3, 101, 102, 103, 10- | 4   |
| msk-donskaya-cahanqirov-<br>sw-1 | f0/24 | msk-donskaya-<br>gw-1 |        | 2, 3, 101, 102, 103, 104 | 4   |
|                                  | g0/1  | msk-donskaya-<br>sw-2 |        | 2, 3                     |     |
|                                  | g0/2  | msk-donskaya-<br>sw-4 |        | 2, 101, 102, 103, 104    | 20, |

```
msk-donskaya-cahanqirov-sw-4(config) #interface range f0/1 - 5
msk-donskaya-cahanqirov-sw-4(config-if-range) #switchport mode access
msk-donskaya-cahanqirov-sw-4(config-if-range) #switchport access vlan 101
msk-donskaya-cahanqirov-sw-4(config-if-range) #interface range f0/6-10
msk-donskaya-cahanqirov-sw-4(config-if-range) #switchport mode access
msk-donskaya-cahanqirov-sw-4(config-if-range) #switchport access vlan 102
msk-donskaya-cahanqirov-sw-4(config-if-range) #interface range f0/11-15
msk-donskaya-cahanqirov-sw-4(config-if-range) #switchport mode access
msk-donskaya-cahanqirov-sw-4(config-if-range) #switchport access vlan 103
msk-donskaya-cahanqirov-sw-4(config-if-range) #switchport access vlan 103
msk-donskaya-cahanqirov-sw-4(config-if-range) #switchport mode access
msk-donskaya-cahanqirov-sw-4(config-if-range) #switchport mode access
msk-donskaya-cahanqirov-sw-4(config-if-range) #switchport access vlan 104
msk-donskaya-cahanqirov-sw-4(config-if-range) #switchport access vlan 104
msk-donskaya-cahanqirov-sw-4(config-if-range) #switchport access vlan 104
```

**Figure 16:** Конфигурация диапазона портов и указание принадлежности к VLAN для msk-donskaya-cahanqirov-sw-4

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

msk-pavlovskaya-cahanqirov-sw-1# wr m
Building configuration...
[OK]
```

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

```
msk-donskaya-cahangirov-sw-2>enable
Password:
msk-donskava-cahangirov-sw-2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskava-cahangirov-sw-2(config)#interface range f0/1 - 2
msk-donskava-cahangirov-sw-2(config-if-range) #switchport mode access
msk-donskaya-cahangirov-sw-2(config-if-range) #switchport access vlan 3
msk-donskava-cahangirov-sw-2(config-if-range) #^Z
msk-donskaya-cahangirov-sw-2#
%SYS-5-CONFIG I: Configured from console by console
msk-donskava-cahangirov-sw-2#wr m
Building configuration ...
(OK)
msk-donskaya-cahanqirov-sw-2#
```

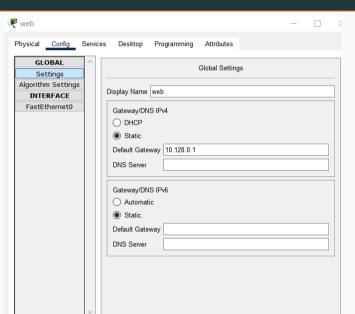
**Figure 18:** Конфигурация диапазона портов и указание принадлежности к VLAN для msk-donskaya-cahanqirov-sw-2

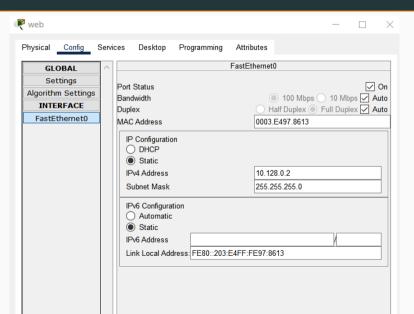
```
msk-donskava-cahangirov-sw-3>enable
Password:
msk-donskaya-cahangirov-sw-3#
% Unknown command or computer name, or unable to find computer address
msk-donskaya-cahanqirov-sw-3#conf t
Enter configuration commands, one per line. End with CNTL/Z.
msk-donskaya-cahanqirov-sw-3(config)#interface range f0/1
msk-donskava-cahangirov-sw-3(config-if-range) #switchport mode access
msk-donskava-cahangirov-sw-3(config-if-range) #switchport access vlan 3
msk-donskaya-cahangirov-sw-3(config-if-range) #^Z
msk-donskaya-cahanqirov-sw-3#
%SYS-5-CONFIG I: Configured from console by console
msk-donskava-cahangirov-sw-3#wr m
Building configuration ...
[OK]
msk-donskava-cahangirov-sw-3#
```

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

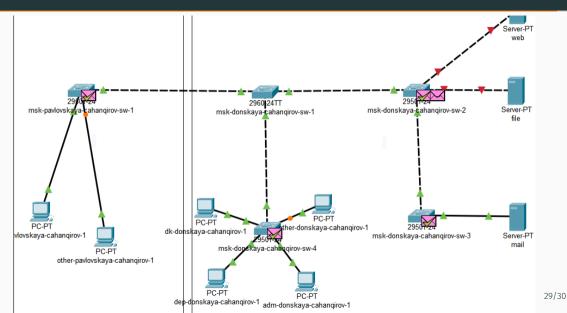
**Table 2:** Таблица IP. Сеть 10.128.0.0/16

| 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              |      |
| 10.128.0.4              | Mail              |      |
| 10.128.0.5              | Dns               |      |
| 10.128.0.6-10.128.0.254 | Зарезервировано   |      |
| 10.128.1.0/24           | Управление        | 2    |
| 10.128.1.1              | Шлюз              |      |
| 10.128.1.2              | msk-donskaya-sw-1 |      |





```
Cisco Packet Tracer PC Command Line 1.0
C:\>ipoonfig
Invalid Command.
:\>ipconfig
FastEthernet0 Connection: (default port)
  Connection-specific DNS Suffix..:
  Link-local IPv6 Address.....: FE80::2D0:58FF:FE11:9505
  IPv6 Address.....: ::
  TPv4 Address ..... 10.128.3.201
  Subnet Mask..... 255.255.255.0
  Default Gateway..... ::
Bluetooth Connection:
  Connection-specific DNS Suffix..:
  Link-local IPv6 Address.....: ::
  IPv6 Address.....!!!
  IPv4 Address..... 0.0.0.0
  Subnet Mask..... 1 0.0.0.0
  Default Gateway..... :::
Invalid Command.
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),
Pinging 10,128,4,202 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Remnest timed out.
Ping statistics for 10.128.4.2021
   Packets: Sent = 4. Received = 0. Lost = 4 (100% loss).
```





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