## Лабораторная работа №4

Администрирование локальных сетей

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Провести подготовительную работу по первоначальной настройке коммутаторов сети.

Выполнение лабораторной работы

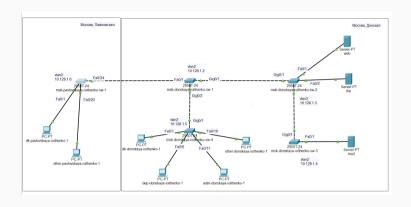


Рис. 1: Схема сети

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch (config) #hostname msk-donskava-ioithenko-sw-1
msk-donskava-ioithenko-sw-1(config)#interface vlan2
msk-donskava-joithenko-sw-1(config-if)#no_shutdown
msk-donskaya-joithenko-sw-1(config-if)#ip_address_10.128.1.2_255.255.255.0
msk-donskava-joithenko-sw-1 (config-if) #exit
msk-donskava-ioithenko-sw-1(config) #ip default-gateway 10.128.1.1
msk-donskava-ioithenko-sw-1(config) #line vtv 0 4
msk-donskaya-ioithenko-sw-1(config-line) #password cisco
msk-donskava-ioithenko-sw-1(config-line)#login
msk-donskava-ioithenko-sw-1(config-line)#exit
msk-donskava-joithenko-sw-1(config)#line console 0
msk-donskaya-joithenko-sw-1 (config-line) #password cisco
msk-donskava-ioithenko-sw-1(config-line) #login
msk-donskava-ioithenko-sw-1(config-line) #exit
msk-donskaya-ioithenko-sw-1(config) #enable secret cisco
msk-donskava-ioithenko-sw-1(config) #service password-encryption
msk-donskaya-ioithenko-sw-1(config) #username admin privilege 1 secret cisco
msk-donskava-joithenko-sw-1(config) #ip domain-name donskava.rudn.edu
msk-donskava-joithenko-sw-1(config) #crypto key generate rsa
The name for the kevs will be: msk-donskava-ioithenko-sw-1.donskava.rudn.edu
Choose the size of the key modulus in the range of 360 to 4096 for your
 General Purpose Kevs. Choosing a key modulus greater than 512 may take
  a few minutes
How many bits in the modulus [512]: 2048
% Generating 2048 bit RSA keys, keys will be non-exportable...[OK]
msk-donskava-ioithenko-sw-1(config) #line vtv 0 4
*Mar 1 0:20:16.686: %SSH-5-ENABLED: SSH 1.99 has been enabled
msk-donskava-ioithenko-sw-1(config-line)#transport input ssh
msk-donskava-ioithenko-sw-1(config-line)#exit
msk-donskava-ioithenko-sw-1(config) #exit
msk-donskaya-ioithenko-sw-1#write memory
%SYS-5-CONFIG I: Configured from console by console
Building configuration ...
[OK]
msk-donskava-ioithenko-sw-1#
```

```
Switch\onable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) #hostname msk-donskava-ioithenko-sw-2
msk-donskava-ioithenko-sw-2(config)#interface vlan
% Incomplete command.
msk-donskava-ioithenko-sw-2(config)#interface vlan2
msk-donskava-ioithenko-sw-2(config-if) #ip address 10.128.1.3 255.255.255.0
msk-donskava-ioithenko-sw-2(config-if)#exit
msk-donskava-ioithenko-sw-2(config) #ip default-gateway 10.128.1.1
msk-donskaya-ioithenko-sw-2(config) #line vtv 0 4
msk-donskava-ioithenko-sw-2(config-line) #password cisco
msk-donskaya-ioithenko-sw-2(config-line)#login
msk-donskava-ioithenko-sw-2(config-line)#exit
msk-donskava-ioithenko-sw-2(config)#line console 0
msk-donskava-ioithenko-sw-2(config-line) #password cisco
msk-donskava-ioithenko-sw-2(config-line)#login
msk-donskaya-ioithenko-sw-2(config-line) #exit
msk-donskava-ioithenko-sw-2(config) #enable secret cisco
msk-donskaya-ioithenko-sw-2(config) #service password-encryption
msk-donskava-ioithenko-sw-2(config) #username admin privilege 1 secret cisco
msk-donskaya-jojthenko-sw-2(config) #ip domain-name donskaya.rudn.edu
msk-donskaya-ioithenko-sw-2(config) #crypto key generate rsa
The name for the keys will be: msk-donskaya-joithenko-sw-2.donskaya.rudn.edu
Choose the size of the key modulus in the range of 360 to 4096 for your
 General Purpose Kevs. Choosing a key modulus greater than 512 may take
  a few minutes.
How many bits in the modulus [512]: 2048
% Generating 2048 bit RSA keys, keys will be non-exportable...[OK]
msk-donskava-ioithenko-sw-2(config)#line vtv 0 4
*Mar 1 0:22:56.969: %SSH-5-ENABLED: SSH 1.99 has been enabled
msk-donskava-ioithenko-sw-2(config-line) #transport input ssh
msk-donskava-ioithenko-sw-2(config-line)#exit
msk-donskava-ioithenko-sw-2(config) #exit
msk-donskava-ioithenko-sw-2#write memory
%SYS-5-CONFIG I: Configured from console by console
Building configuration ...
msk-donskaya-ioithenko-sw-2#
```

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch (config) #hostname msk-donskava-joithenko-sw-3
msk-donskava-joithenko-sw-3(config)#interface vlan2
msk-donskava-ioithenko-sw-3(config-if)#no shutdown
msk-donskava-joithenko-sw-3(config-if)#ip_address_10.128.1.4_255.255.255.0
msk-donskava-ioithenko-sw-3(config-if)#exit
msk-donskaya-ioithenko-sw-3(config) #ip default-gateway 10.128.1.1
msk-donskava-ioithenko-sw-3(config)#line vtv 0 4
msk-donskava-joithenko-sw-3(config-line) #password cisco
msk-donskaya-ioithenko-sw-3(config-line)#login
msk-donskava-joithenko-sw-3(config-line)#exit
msk-donskava-ioithenko-sw-3(config)#line console 0
msk-donskava-ioithenko-sw-3(config-line) #password cisco
msk-donskava-ioithenko-sw-3(config-line) #login
msk-donskava-ioithenko-sw-3(config-line) #exit
msk-donskaya-ioithenko-sw-3(config) #enable secret cisco
msk-donskava-ioithenko-sw-3(config) #service password-encryption
msk-donskava-ioithenko-sw-3(config) #username admin privilege 1 secret cisco
msk-donskava-ioithenko-sw-3(config) #ip domain-name donskava.rudn.edu
msk-donskava-ioithenko-sw-3(config)#crvpto kev generate rsa
The name for the keys will be: msk-donskava-ioithenko-sw-3.donskava.rudn.edu
Choose the size of the key modulus in the range of 360 to 4096 for your
  General Purpose Keys. Choosing a key modulus greater than 512 may take
  a few minutes.
How many bits in the modulus [512]: 2048
% Generating 2048 bit RSA keys, keys will be non-exportable...[OK]
msk-donskava-ioithenko-sw-3(config)#line vtv 0 4
*Mar 1 0:25:4.380: %SSH-5-ENABLED: SSH 1.99 has been enabled
msk-donskava-ioithenko-sw-3(config-line)#transport input ssh
msk-donskava-ioithenko-sw-3(config-line)#exit
msk-donskava-ioithenko-sw-3(config)#exit
msk-donskava-ioithenko-sw-3#write memory
%SYS-5-CONFIG I: Configured from console by console
Building configuration ...
[OK]
msk-donskava-ioithenko-sw-3#
```

```
Switchbenshle
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/2.
Switch (config) #hostname msk-donskava-joithenko-sw-4
msk-donskava-joithenko-sw-4(config) #interface vlan2
msk-donskava-ioithenko-sw-4(config-if)#no shutdown
msk-donskava-ioithenko-sw-4(config-if) #ip address 10.128.1.5 255.255.255.0
msk-donskava-ioithenko-sw-4(config-if)#exit
msk-donskaya-ioithenko-sw-4(config) #ip default-gateway 10.128.1.1
msk-donskava-ioithenko-sw-4(config) #line vtv 0 4
msk-donskava-ioithenko-sw-4(config-line) #password cisco
msk-donskava-ioithenko-sw-4(config-line)#login
msk-donskava-joithenko-sw-4(config-line)#exit
msk-donskava-ioithenko-sw-4(config)#line console 0
msk-donskava-ioithenko-sw-4(config-line) #password cisco
msk-donskava-ioithenko-sw-4(config-line) #login
msk-donskava-ioithenko-sw-4(config-line)#exit
msk-donskava-ioithenko-sw-4(config) #enable secret cisco
msk-donskava-ioithenko-sw-4(config)#service password-encryption
msk-donskava-ioithenko-sw-4(config) #username admin privilege 1 secret cisco
msk-donskaya-ioithenko-sw-4(config) #ip domain-name donskaya.rudn.edu
msk-donskava-ioithenko-sw-4(config)#crvpto kev generate rsa
The name for the keys will be: msk-donskava-ioithenko-sw-4.donskava.rudn.edu
Choose the size of the key modulus in the range of 360 to 4096 for your
  General Purpose Keys. Choosing a key modulus greater than 512 may take
  a few minutes.
How many bits in the modulus [512]: 2048
% Generating 2048 bit RSA keys, keys will be non-exportable...[OK]
msk-donskava-ioithenko-sw-4(config)#line vtv 0 4
*Mar 1 0:27:15.218: %SSH-5-ENABLED: SSH 1.99 has been enabled
msk-donskava-ioithenko-sw-4(config-line)#transport input ssh
msk-donskava-ioithenko-sw-4(config-line)#exit
msk-donskava-ioithenko-sw-4(config) #exit
msk-donskava-ioithenko-sw-4#write memory
%SYS-5-CONFIG I: Configured from console by console
Building configuration ...
[OK]
msk-donskava-ioithenko-sw-4#
```

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch (config) #hostname msk-pavlovskava-ioithenko-sw-1
msk-paylovskava-ioithenko-sw-1(config)#interface vlan2
msk-pavlovskava-ioithenko-sw-1(config-if) #no shutdown
msk-paylovskaya-ioithenko-sw-1(config-if) #ip address 10.128.1.6 255.255.255.0
msk-paylovskaya-ioithenko-sw-1(config-if) #exit
msk-paylovskaya-joithenko-sw-1(config)#ip default-gateway 10.128.1.1
msk-paylovskaya-ioithenko-sw-1(config)#line vtv 0 4
msk-paylovskava-ioithenko-sw-1(config-line) #password cisco
msk-paylovskava-ioithenko-sw-1(config-line) #login
msk-pavlovskaya-ioithenko-sw-1(config-line) #exit
msk-pavlovskaya-ioithenko-sw-1(config)#line console 0
msk-pavlovskava-ioithenko-sw-1(config-line) #password cisco
msk-pavlovskava-ioithenko-sw-1(config-line) #login
msk-pavlovskava-ioithenko-sw-1(config-line) #exit
msk-pavlovskaya-ioithenko-sw-1(config) #enable secret cisco
msk-paylovskaya-ioithenko-sw-1(config)#service password-encryption
msk-paylovskaya-ioithenko-sw-1(config) #username admin privilege 1 secret cisco
msk-paylovskaya-ioithenko-sw-1(config)#ip domain-name donskaya.rudn.edu
msk-pavlovskava-ioithenko-sw-1(config) #crypto key generate rsa
The name for the keys will be: msk-paylovskaya-ioithenko-sw-1.donskaya.rudn.edu
Choose the size of the key modulus in the range of 360 to 4096 for your
  General Purpose Keys, Choosing a key modulus greater than 512 may take
  a few minutes.
How many bits in the modulus [512]: 2048
% Generating 2048 bit RSA keys, keys will be non-exportable...[OK]
msk-paylovskava-ioithenko-sw-1(config)#line vtv 0 4
*Mar 1 0:29:43.270: %SSH-5-ENABLED: SSH 1.99 has been enabled
msk-pavlovskaya-ioithenko-sw-1(config-line)#transport input ssh
msk-paylovskava-ioithenko-sw-1(config-line)#exit
msk-paylovskava-ioithenko-sw-1(config)#exit
msk-pavlovskaya-ioithenko-sw-1#write memory
%SYS-5-CONFIG I: Configured from console by console
Building configuration ...
[OK]
msk-pavlovskava-ioithenko-sw-1#
```



В ходе выполнения лабораторной работы я провела подготовительную работу по первоначальной настройке коммутаторов сети.