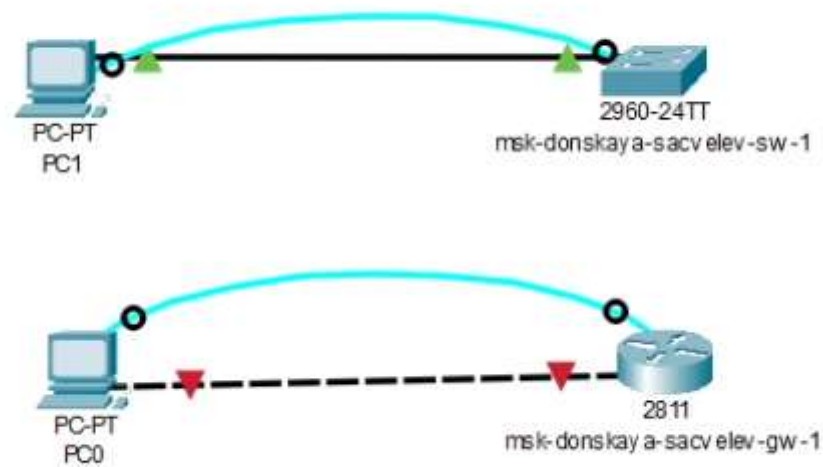


# Лабораторная работа № 2

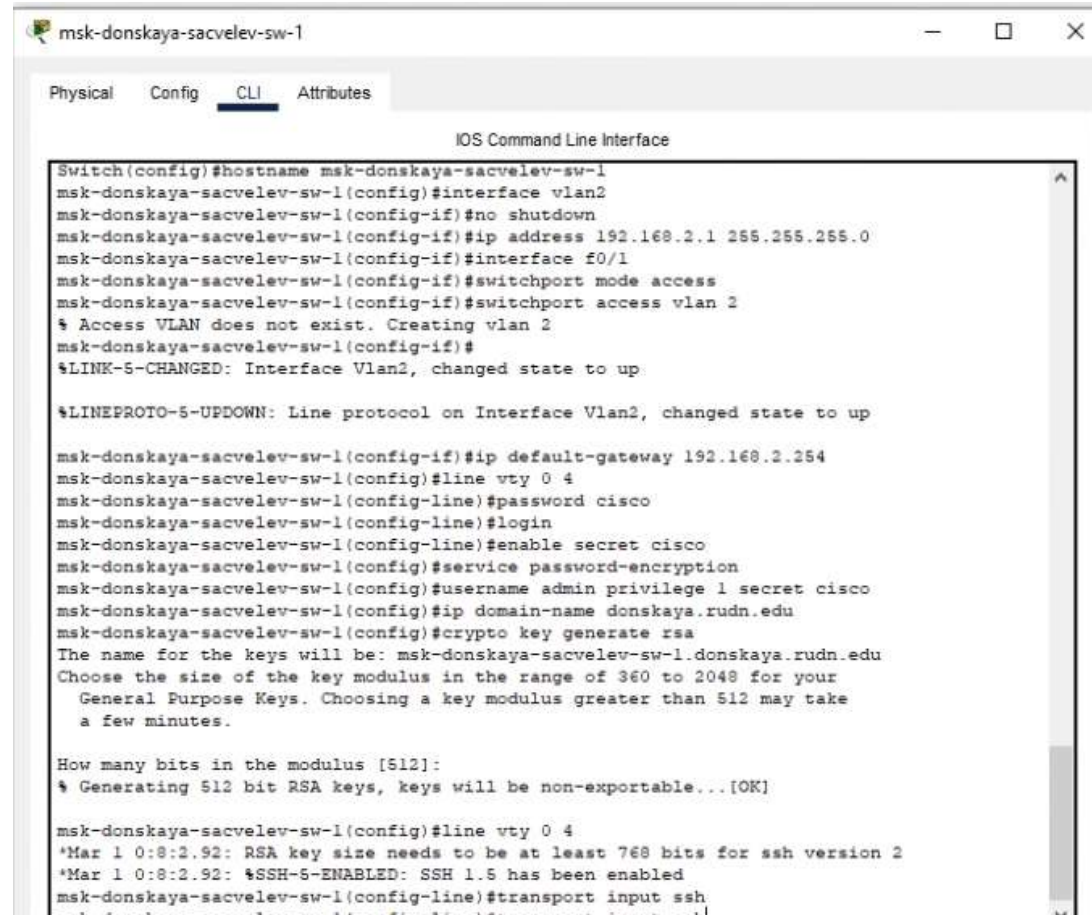
Предварительная настройка оборудования Cisco

Цвелев С.А. НПИбд-02-22

# Коммутатор, маршрутизатор и 2 оконечных устройства



# Конфигурация коммутатора



The screenshot shows a window titled "msk-donskaya-sacvelev-sw-1" with tabs for "Physical", "Config", "CLI", and "Attributes". The "CLI" tab is active, displaying the "IOS Command Line Interface". The terminal output shows the following commands and responses:

```
Switch(config)#hostname msk-donskaya-sacvelev-sw-1
msk-donskaya-sacvelev-sw-1(config)#interface vlan2
msk-donskaya-sacvelev-sw-1(config-if)#no shutdown
msk-donskaya-sacvelev-sw-1(config-if)#ip address 192.168.2.1 255.255.255.0
msk-donskaya-sacvelev-sw-1(config-if)#interface f0/1
msk-donskaya-sacvelev-sw-1(config-if)#switchport mode access
msk-donskaya-sacvelev-sw-1(config-if)#switchport access vlan 2
% Access VLAN does not exist. Creating vlan 2
msk-donskaya-sacvelev-sw-1(config-if)#
%LINK-5-CHANGED: Interface Vlan2, changed state to up

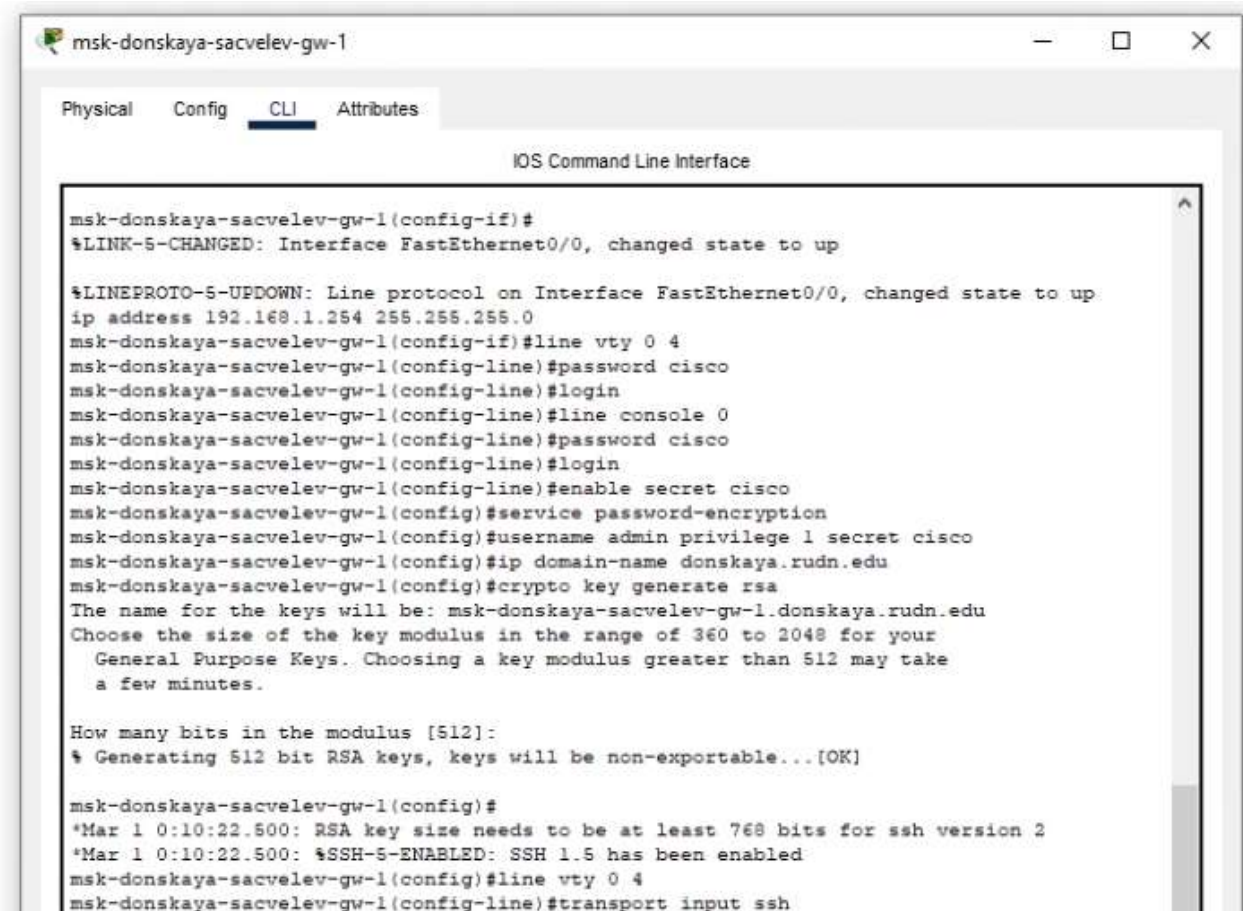
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan2, changed state to up

msk-donskaya-sacvelev-sw-1(config-if)#ip default-gateway 192.168.2.254
msk-donskaya-sacvelev-sw-1(config)#line vty 0 4
msk-donskaya-sacvelev-sw-1(config-line)#password cisco
msk-donskaya-sacvelev-sw-1(config-line)#login
msk-donskaya-sacvelev-sw-1(config-line)#enable secret cisco
msk-donskaya-sacvelev-sw-1(config)#service password-encryption
msk-donskaya-sacvelev-sw-1(config)#username admin privilege 1 secret cisco
msk-donskaya-sacvelev-sw-1(config)#ip domain-name donskeya.rudn.edu
msk-donskaya-sacvelev-sw-1(config)#crypto key generate rsa
The name for the keys will be: msk-donskaya-sacvelev-sw-1.donskeya.rudn.edu
Choose the size of the key modulus in the range of 360 to 2048 for your
General Purpose Keys. Choosing a key modulus greater than 512 may take
a few minutes.

How many bits in the modulus [512]:
% Generating 512 bit RSA keys, keys will be non-exportable...[OK]

msk-donskaya-sacvelev-sw-1(config)#line vty 0 4
*Mar 1 0:8:2.92: RSA key size needs to be at least 768 bits for ssh version 2
*Mar 1 0:8:2.92: %SSH-5-ENABLED: SSH 1.5 has been enabled
msk-donskaya-sacvelev-sw-1(config-line)#transport input ssh
```

# Конфигурация маршрутизатора



```
msk-donskaya-sacvelev-gw-1
Physical  Config  CLI  Attributes
IOS Command Line Interface

msk-donskaya-sacvelev-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
ip address 192.168.1.254 255.255.255.0
msk-donskaya-sacvelev-gw-1(config-if)#line vty 0 4
msk-donskaya-sacvelev-gw-1(config-line)#password cisco
msk-donskaya-sacvelev-gw-1(config-line)#login
msk-donskaya-sacvelev-gw-1(config-line)#line console 0
msk-donskaya-sacvelev-gw-1(config-line)#password cisco
msk-donskaya-sacvelev-gw-1(config-line)#login
msk-donskaya-sacvelev-gw-1(config-line)#enable secret cisco
msk-donskaya-sacvelev-gw-1(config)#service password-encryption
msk-donskaya-sacvelev-gw-1(config)#username admin privilege 1 secret cisco
msk-donskaya-sacvelev-gw-1(config)#ip domain-name donsokaya.rudn.edu
msk-donskaya-sacvelev-gw-1(config)#crypto key generate rsa
The name for the keys will be: msk-donskaya-sacvelev-gw-1.donsokaya.rudn.edu
Choose the size of the key modulus in the range of 360 to 2048 for your
  General Purpose Keys. Choosing a key modulus greater than 512 may take
  a few minutes.

How many bits in the modulus [512]:
% Generating 512 bit RSA keys, keys will be non-exportable...[OK]

msk-donskaya-sacvelev-gw-1(config)#
*Mar 1 0:10:22.500: RSA key size needs to be at least 768 bits for ssh version 2
*Mar 1 0:10:22.500: %SSH-5-ENABLED: SSH 1.5 has been enabled
msk-donskaya-sacvelev-gw-1(config)#line vty 0 4
msk-donskaya-sacvelev-gw-1(config-line)#transport input ssh
```

# Успешная проверка соединения

```
msk-donskaya-sacvelev-sw-1#ping 192.168.2.1  
  
Type escape sequence to abort.  
Sending 5, 100-byte ICMP Echos to 192.168.2.1, timeout is 2 seconds:  
!!!!!  
Success rate is 100 percent (5/5), round-trip min/avg/max = 3/3/4 ms  
  
msk-donskaya-sacvelev-sw-1#
```