

Лаборатория работа 2

Предварительная настройка оборудования Cisco

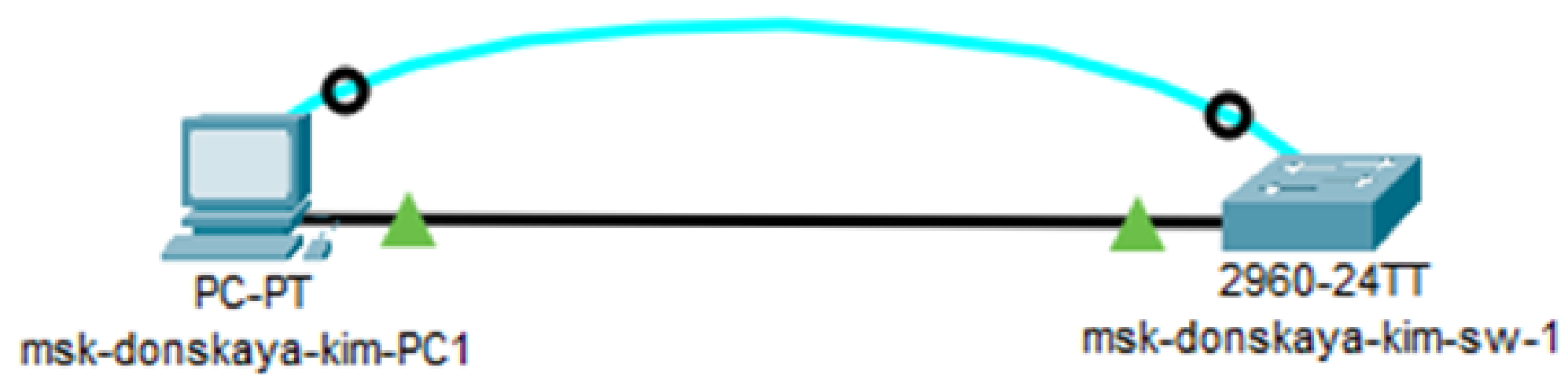
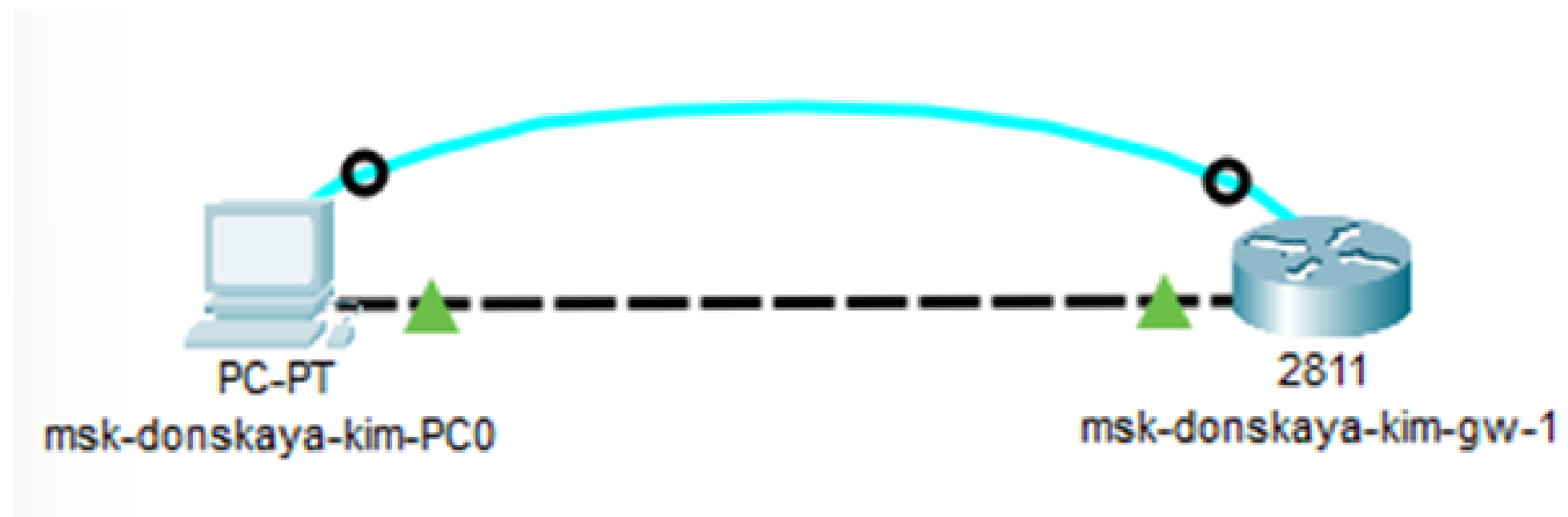
ПОДГОТОВИЛА: КИМ РЕАЧНА
ГРУППА: НПИБД-02-20

Цель работы:

Получить основные навыки по начальному конфигурированию оборудования Cisco.

Задание:

- Сделать предварительную настройку маршрутизатора
- Сделать предварительную настройку коммутатора



```
msk-donskaya-gw-1

Physical Config CLI Attributes

IOS Command Line Interface

Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname msk-donskaya-kim-gw-1
msk-donskaya-kim-gw-1(config)#interface f0/0
msk-donskaya-kim-gw-1(config-if)#no shutdown

msk-donskaya-kim-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

msk-donskaya-kim-gw-1(config-if)#ip address 192.168.1.254 255.255.255.0
msk-donskaya-kim-gw-1(config-if)#exit
msk-donskaya-kim-gw-1(config)#line vty 0 4
msk-donskaya-kim-gw-1(config-line)#password cisco
msk-donskaya-kim-gw-1(config-line)#login
msk-donskaya-kim-gw-1(config-line)#exit
msk-donskaya-kim-gw-1(config)#line console 0
msk-donskaya-kim-gw-1(config-line)#password cisco
msk-donskaya-kim-gw-1(config-line)#login
msk-donskaya-kim-gw-1(config-line)#exit
msk-donskaya-kim-gw-1(config)#enable secret cisco
msk-donskaya-kim-gw-1(config)#service password-encryption
msk-donskaya-kim-gw-1(config)#username admin privilege 1 secret cisco
msk-donskaya-kim-gw-1(config)#ip domain-name dons kaya.rudn.edu
msk-donskaya-kim-gw-1(config)#crypto key generate rsa
The name for the keys will be: msk-donskaya-kim-gw-1.donskaya.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]: 2048
% Generating 2048 bit RSA keys, keys will be non-exportable...[OK]

msk-donskaya-kim-gw-1(config)#line vty 0 4
*Mar 1 0:7:44.244: %SSH-5-ENABLED: SSH 1.99 has been enabled
msk-donskaya-kim-gw-1(config-line)#transport input ssh
msk-donskaya-kim-gw-1(config-line)#
```

```
msk-donskaya-kim-sw-1

Physical Config CLI Attributes

IOS Command Line Interface

Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname msk-donskaya-kim-sw-1
msk-donskaya-kim-sw-1(config)#interface vlan2
msk-donskaya-kim-sw-1(config-if)#no shutdown
msk-donskaya-kim-sw-1(config-if)#ip address 192.168.2.1 255.255.255.0
msk-donskaya-kim-sw-1(config-if)#exit
msk-donskaya-kim-sw-1(config)#interface f0/1
msk-donskaya-kim-sw-1(config-if)#switchport mode access
msk-donskaya-kim-sw-1(config-if)#switchport access vlan 2
% Access VLAN does not exist. Creating vlan 2
msk-donskaya-kim-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-kim-sw-1(config-if)#exit
msk-donskaya-kim-sw-1(config)#ip default-gateway 192.168.2.254
msk-donskaya-kim-sw-1(config)#line vty 0 4
msk-donskaya-kim-sw-1(config-line)#password cisco
msk-donskaya-kim-sw-1(config-line)#login
msk-donskaya-kim-sw-1(config-line)#exit
msk-donskaya-kim-sw-1(config)#line console 0
msk-donskaya-kim-sw-1(config-line)#password cisco
msk-donskaya-kim-sw-1(config-line)#login
msk-donskaya-kim-sw-1(config-line)#exit
msk-donskaya-kim-sw-1(config)#enable secret cisco
msk-donskaya-kim-sw-1(config)#service password-encryption
msk-donskaya-kim-sw-1(config)#username admin privilege 1 secret cisco
msk-donskaya-kim-sw-1(config)#ip domain-name dons kaya.rudn.edu
msk-donskaya-kim-sw-1(config)#crypto key generate rsa
The name for the keys will be: msk-donskaya-kim-sw-1.donskaya.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]: 2048
% Generating 2048 bit RSA keys, keys will be non-exportable...[OK]

msk-donskaya-kim-sw-1(config)#line vty 0 4
*Mar 1 0:11:14.439: %SSH-5-ENABLED: SSH 1.99 has been enabled
msk-donskaya-kim-sw-1(config-line)#transport input ssh
msk-donskaya-kim-sw-1(config-line)#
```

msk-donskaya-kim-PC0

Physical Config **Desktop** Programming Attributes

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 192.168.1.254

Pinging 192.168.1.254 with 32 bytes of data:

Reply from 192.168.1.254: bytes=32 time<1ms TTL=255
Reply from 192.168.1.254: bytes=32 time<1ms TTL=255
Reply from 192.168.1.254: bytes=32 time<1ms TTL=255
Reply from 192.168.1.254: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

msk-donskaya-kim-PC0

Physical Config **Desktop** Programming Attributes

Command Prompt

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C:\>ping 192.168.1.254

Pinging 192.168.1.254 with 32 bytes of data:

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Reply from 192.168.1.254: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.254:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>telnet 192.168.1.254
Trying 192.168.1.254 ...Open

[Connection to 192.168.1.254 closed by foreign host]
C:\>ssh -l admin 192.168.1.254

Password:

msk-donskaya-kim-gw-1>
```

Вывод

Получила основные навыки по начальному конфигурированию оборудования Cisco.

Спасибо за внимание!