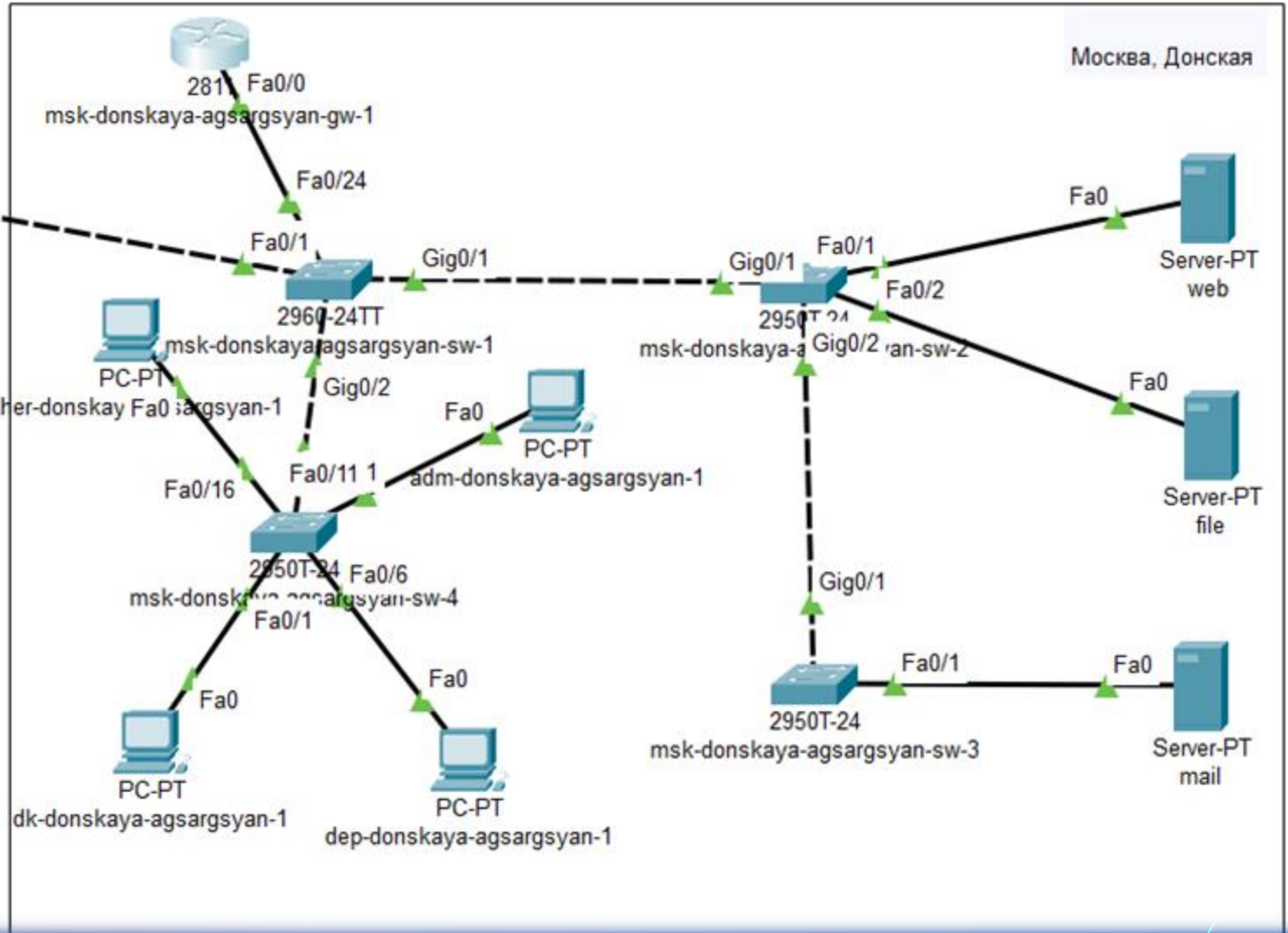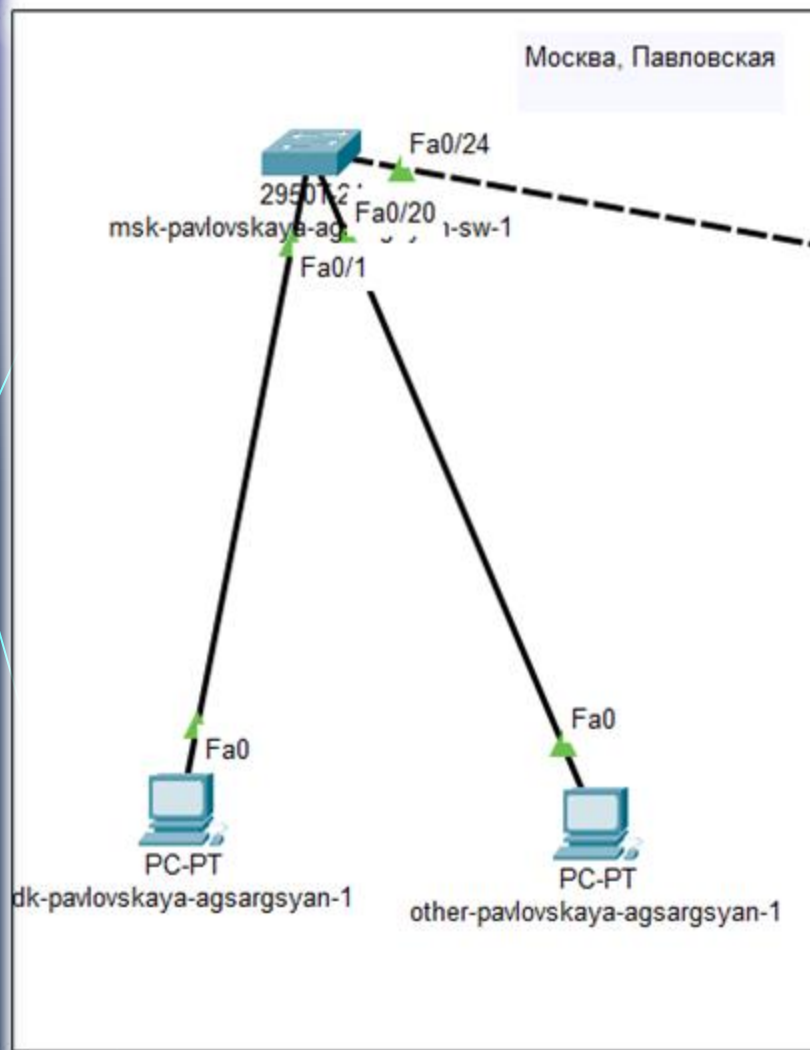# Статическая маршрутизация VLAN

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ЦЕЛЬ РАБОТЫ

Настроить статическую маршрутизацию VLAN в сети.

```
Router>en
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname msk-donskaya-agsargsyan-gw-1
msk-donskaya-agsargsyan-gw-1(config)#line vty 0 4
msk-donskaya-agsargsyan-gw-1(config-line)#password cisco
msk-donskaya-agsargsyan-gw-1(config-line)#login
msk-donskaya-agsargsyan-gw-1(config-line)#
msk-donskaya-agsargsyan-gw-1(config-line)#line console 0
msk-donskaya-agsargsyan-gw-1(config-line)#password cisco
msk-donskaya-agsargsyan-gw-1(config-line)#login
msk-donskaya-agsargsyan-gw-1(config-line)#enable secret cisco
msk-donskaya-agsargsyan-gw-1(config)#enable secret cisco
msk-donskaya-agsargsyan-gw-1(config)#service password-encryption
msk-donskaya-agsargsyan-gw-1(config)#
msk-donskaya-agsargsyan-gw-1(config)#username admin privilege 1 secret cisco
msk-donskaya-agsargsyan-gw-1(config)#
msk-donskaya-agsargsyan-gw-1(config)#ip domain-name donskaya.rudn.edu
msk-donskaya-agsargsyan-gw-1(config)#crypto key generate rsa
The name for the keys will be: msk-donskaya-agsargsyan-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]: 768
% Generating 768 bit RSA keys, keys will be non-exportable...[OK]

msk-donskaya-agsargsyan-gw-1(config)#line vty 0 4
*Mar 1 0:9:33.137: %SSH-5-ENABLED: SSH 1.99 has been enabled
msk-donskaya-agsargsyan-gw-1(config-line)#transport input ssh
msk-donskaya-agsargsyan-gw-1(config-line)#
```

```
msk-donskaya-agsargsyan-gw-1(config)#interface f0/0
msk-donskaya-agsargsyan-gw-1(config-if)#no shutdown
msk-donskaya-agsargsyan-gw-1(config-if)#interface f0/0.2
msk-donskaya-agsargsyan-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.2, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.2, changed state to up

msk-donskaya-agsargsyan-gw-1(config-subif)#encapsulation dot1Q 2
msk-donskaya-agsargsyan-gw-1(config-subif)#ip address 10.128.1.1 255.255.255.0
msk-donskaya-agsargsyan-gw-1(config-subif)#description management
msk-donskaya-agsargsyan-gw-1(config-subif)#interface f0/0.3
msk-donskaya-agsargsyan-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.3, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.3, changed state to up

msk-donskaya-agsargsyan-gw-1(config-subif)#encapsulation dot1Q 3
msk-donskaya-agsargsyan-gw-1(config-subif)#ip address 10.128.0.1 255.255.255.0
msk-donskaya-agsargsyan-gw-1(config-subif)#description servers
msk-donskaya-agsargsyan-gw-1(config-subif)#exit
msk-donskaya-agsargsyan-gw-1(config)#interface f0/0.101
msk-donskaya-agsargsyan-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.101, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0.101, changed state to up

msk-donskaya-agsargsyan-gw-1(config-subif)#encapsulation dot1Q 101
msk-donskaya-agsargsyan-gw-1(config-subif)#ip address 10.128.3.1 255.255.255.0
msk-donskaya-agsargsyan-gw-1(config-subif)#description dk
msk-donskaya-agsargsyan-gw-1(config-subif)#exit
msk-donskaya-agsargsyan-gw-1(config)#interface f0/0.102
msk-donskaya-agsargsyan-gw-1(config-subif)#
%LINK-5-CHANGED: Interface FastEthernet0/0.102, changed state to up
```

ВЫВОД

1. Добавили в локальную сеть маршрутизатор, провели его первоначальную настройку.

2. Настроили статическую маршрутизацию VLAN.

3. Проверили доступность устройств, принадлежащих разным VLAN.