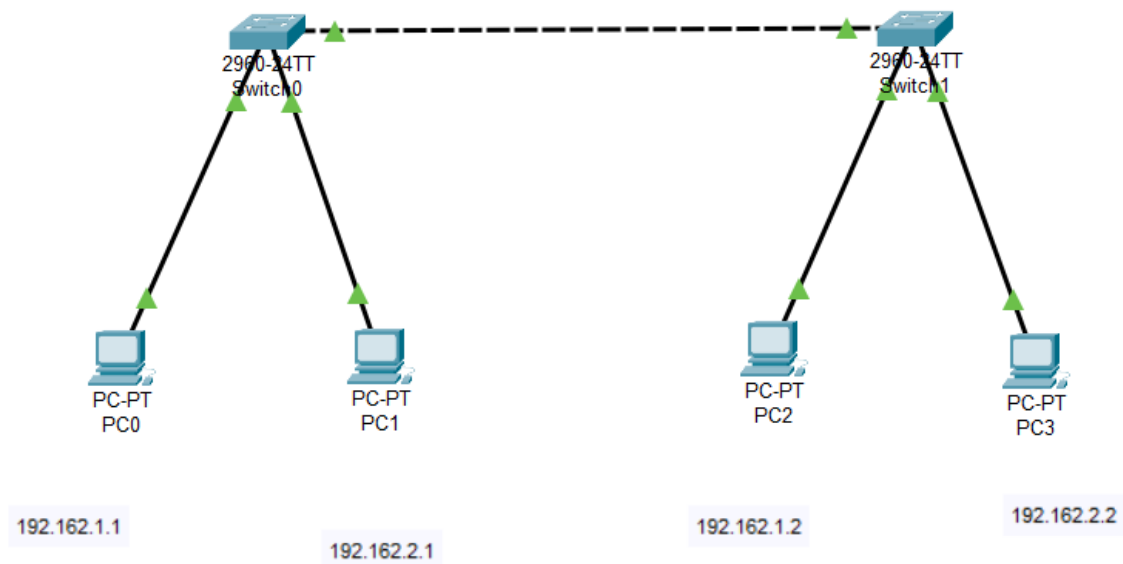


Построил сеть и добавил айпи адреса



Конфигурация свич0

```
Switch#conf t
Enter configuration commands, one per line. End with
Switch(config)#int fa0/1
Switch(config-if)#sw ac vl 10
                        ^
% Invalid input detected at '^' marker.

Switch(config-if)#sw ac vl 10
% Access VLAN does not exist. Creating vlan 10
Switch(config-if)#no sh
Switch(config-if)#int fa0/2
Switch(config-if)#sw ac vl 20
% Access VLAN does not exist. Creating vlan 20
Switch(config-if)#no sh
Switch(config-if)#exit
Switch(config)#
```

Аналогично в свич1

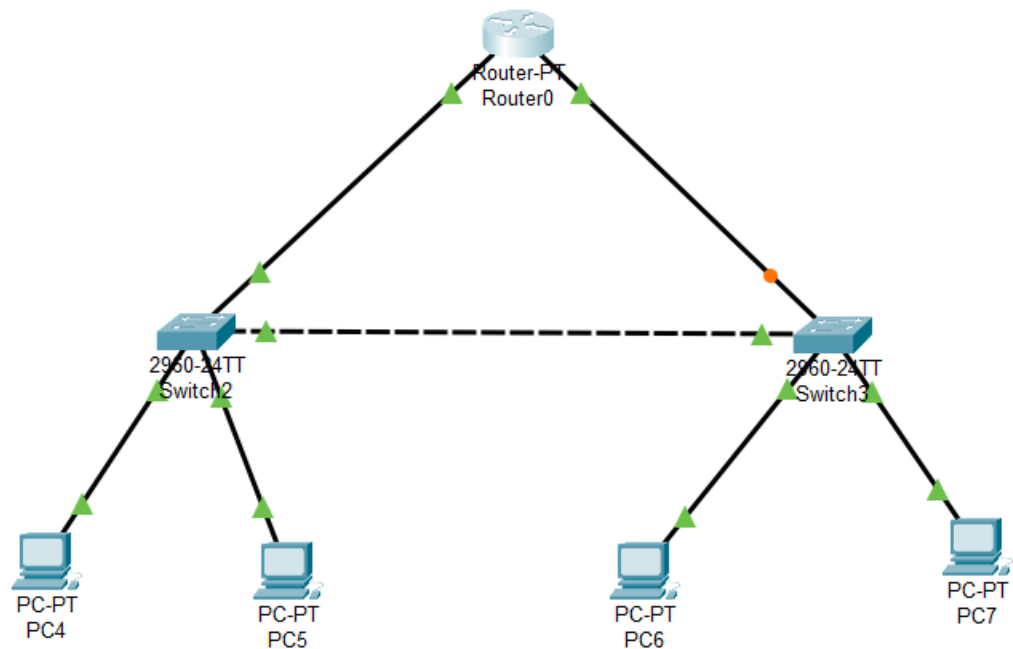
Прокладываем Trunk-порт в свич0

```
Switch(config)#exit
Switch#
%SYS-5-CONFIG_I: Configured from console by console

Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int gi0/1
Switch(config-if)#sw mode t
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/3 (
FastEthernet0
Switch(config-if)#sw mode trunk
Switch(config-if)#
Switch(config-if)#sw mode trunk
Switch(config-if)#no sh
Switch(config-if)#x
%CDP-4-NATIVE_VLAN_MISMATCH: Native VLAN mismatch discovered on FastEthernet0/3 (
FastEthernet0/1 (10) .
Switch(config-if)#
Switch(config-if)#exit
Switch(config)#
```

Аналогично в свич1

Добавляю роутер



Настраиваю его

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int fa0/0
Router(config-if)#ip ad 192.168.1.100 255.255.255.0
Router(config-if)#no sh

Router(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

Router(config-if)#int fa1/0
Router(config-if)#ip ad 192.168.2.100 255.255.255.0
Router(config-if)#no sh

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up
```

Свич0

```
Switch(config)#int fa0/3
Switch(config-if)#sw ac vl 20
Switch(config-if)#no sh
Switch(config-if)#exit
Switch(config)#
```

Аналогично свич1

```
C:\>ping 192.168.1.2

Pinging 192.168.1.2 with 32 bytes of data:

Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128
Reply from 192.168.1.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

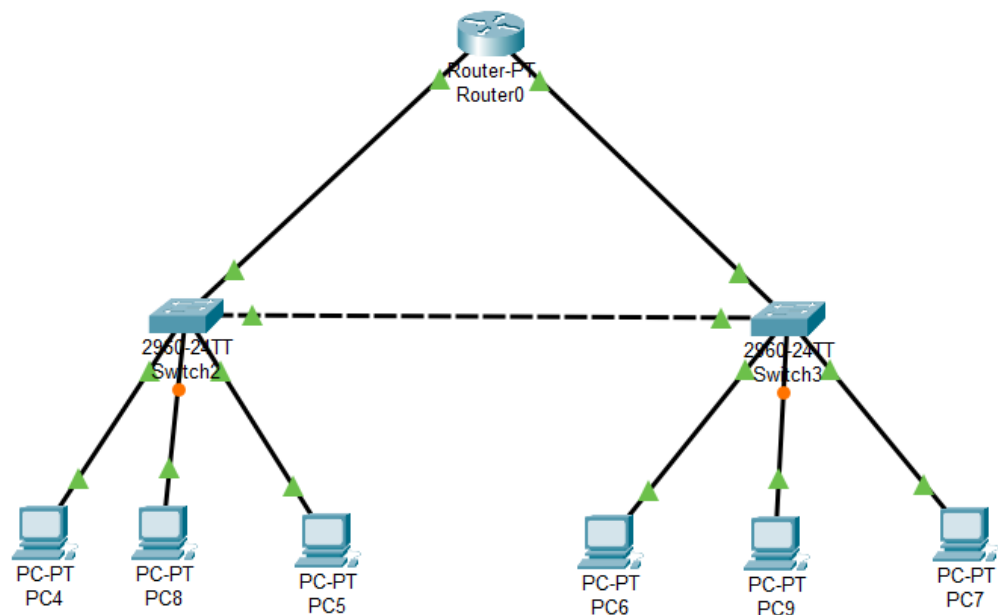
```
C:\>ping 192.168.2.2

Pinging 192.168.2.2 with 32 bytes of data:

Reply from 192.168.2.2: bytes=32 time<1ms TTL=128
Reply from 192.168.2.2: bytes=32 time<1ms TTL=128
Reply from 192.168.2.2: bytes=32 time=7ms TTL=128
Reply from 192.168.2.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.2.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 7ms, Average = 1ms
```

Расширил сеть



Добавил vlan30

```
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa0/4
Switch(config-if)#sw ac vl 30
% Access VLAN does not exist. Creating vlan 30
Switch(config-if)#no sh
Switch(config-if)#exit
```

Проверка

```
C:\>ping 192.162.3.3

Pinging 192.162.3.3 with 32 bytes of data:

Reply from 192.162.3.3: bytes=32 time<1ms TTL=128
Reply from 192.162.3.3: bytes=32 time=7ms TTL=128
Reply from 192.162.3.3: bytes=32 time<1ms TTL=128
Reply from 192.162.3.3: bytes=32 time<1ms TTL=128

Ping statistics for 192.162.3.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 7ms, Average = 1ms
```