### Построил сеть:



## Настройка свитч0:

```
Switch>en
Switch$conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)$int fa0/1
Switch(config-if)$sw ac v1 10

% Invalid input detected at '^' marker.

Switch(config-if)$sw ac v1 10
% Access VLAN does not exist. Creating vlan 10
Switch(config-if)$no sh
Switch(config-if)$nit fa0/2
Switch(config-if)$sw ac v1 20
% Access VLAN does not exist. Creating vlan 20
Switch(config-if)$no sh
Switch(config-if)$no sh
Switch(config-if)$exit
```

### Настройка свитч1:

```
Switch>en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int fa0/1
Switch(config-if)#sw ac v1 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 v1 20
% Access VLAN does not exist. Creating vlan 20
Switch(config-if)#no sh
Switch(config-if)#no sh
Switch(config-if)#exit
```

# Проложил Trunk-порт.

### Свитч0:

```
Switch(config) #int gi0/1
Switch(config-if) #sw mode trunk
Switch(config-if) #no sh
Switch(config-if) #exit
```

### Свитч1:

```
Switch#en
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#int gi0/1
Switch(config-if)#sw mode trunk
Switch(config-if)#no sh
Switch(config-if)#exit
```

### Протестировал настройку:

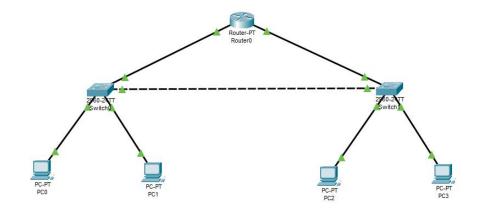
```
Pinging 192.162.1.2 with 32 bytes of data:

Reply from 192.162.1.2: bytes=32 time=6ms TTL=128
Reply from 192.162.1.2: bytes=32 time<1ms TTL=128
Reply from 192.162.1.2: bytes=32 time<1ms TTL=128
Reply from 192.162.1.2: bytes=32 time<1ms TTL=128
Ping statistics for 192.162.1.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 6ms, Average = 1ms
```

### Подсоединил роутер:



### Конфигурация роутера:

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

### Свитч0:

```
Switch(config) #int fa0/3
Switch(config-if) #sw ac vl 10
Switch(config-if) #no sh
Switch(config-if) #exi
```

## Свитч1:

```
Switch(config-if)#s2 ac vl 20
% Invalid input detected at '^' marker.
Switch(config-if)#sw ac vl 20
Switch(config-if)#no sh
```

```
C:\>ping 192.162.2.2 with 32 bytes of data:

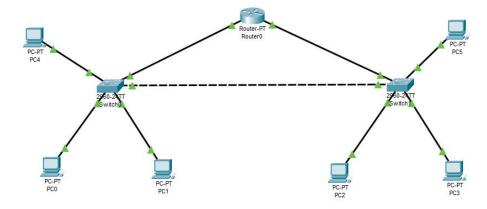
Reply from 192.162.2.2: bytes=32 time<1ms TTL=128
Reply from 192.162.2.2: bytes=32 time=4ms TTL=128
Reply from 192.162.2.2: bytes=32 time=4ms TTL=128
Reply from 192.162.2.2: bytes=32 time<1ms TTL=128
Reply from 192.162.2.2: bytes=32 time<1ms TTL=128

Ping statistics for 192.162.2.2:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 4ms, Average = 1ms
```

### Добавил vlan 30:



### Свитч0:

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

## Свитч1:

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