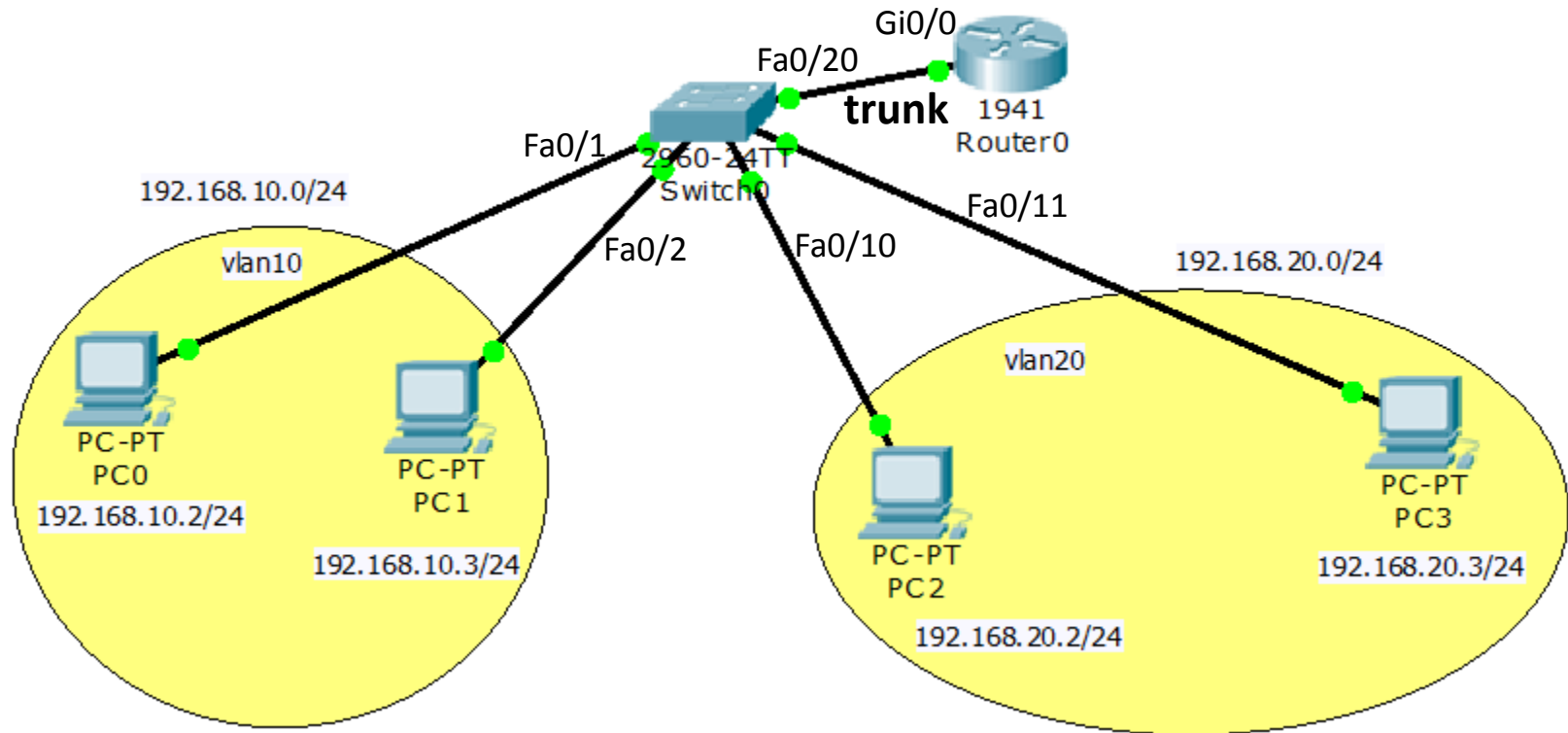# Statické routrování – virtual LAN

Router# **sh ip route**

    192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks

C   **192.168.10.0/24 is directly connected, GigabitEthernet0/0.1**

L   192.168.10.1/32 is directly connected, GigabitEthernet0/0.1

    192.168.20.0/24 is variably subnetted, 2 subnets, 2 masks

C   **192.168.20.0/24 is directly connected, GigabitEthernet0/0.2**

L   192.168.20.1/32 is directly connected, GigabitEthernet0/0.2

Konfigurace přepínače

➢ SW1#conf t

➢ SW1(config)# int fa0/20

➢ SW1(config-if)# **switchport mode trunk**

➢ SW1(config)# int fa0/1

➢ SW1(config-if)# **switchport access vlan 10**

➢ SW1(config-if)# int fa0/2

➢ SW1(config-if)# switchport access vlan 10

➢ SW1(config-if)# int fa0/10

➢ SW1(config-if)# switchport access vlan 20

➢ SW1(config-if)# int fa0/11

➢ SW1(config-if)# switchport access vlan 20

➢ SW1(config-if)#

➢ Router# **sh ip interface br**

Kontrola přepínače

SW1# **sh vlan**

```
VLAN Name                        Status    Ports
---- -------------------------------- -------- -------------------------------
1    default                     active    Fa0/3, Fa0/4, Fa0/5, Fa0/6
2        Fa0/22, Fa0/23, Fa0/24, Gig1/1
                                 Gig1/2
10   VLAN0010                    active    Fa0/1, Fa0/2
20   VLAN0020                    active    Fa0/10, Fa0/11
1002 fddi-default                act/unsup
1003 token-ring-default          act/unsup
1004 fddinet-default             act/unsup
1005 trnet-default               act/unsup
fddi  101002    1500 -    -    -    -  -      0    0
```

Konfigurace routru

➢Router(config-if)#

➢Router(config-if)# int gi0/0

➢Router(config-if)# no ip address

➢Router(config-if)# no sh

➢Router(config-if)# int gi0/0.1

➢Router(config-subif)# encapsulation dot1q 10

➢Router(config-subif)# ip address 192.168.10.1 255.255.255.0

➢Router(config-subif)# int gi0/0.2

➢Router(config-subif)# encapsulation dot1q 20

➢Router(config-subif)# ip address 192.168.20.1 255.255.255.0

➢Router(config-subif)# exit

➢Router(config)# exit

Kontrola trasy programem **tracert**

```
PC>tracert 192.168.20.3

Tracing route to 192.168.20.3 over a maximum of 30 hops:

  1    46 ms        0 ms        0 ms        192.168.10.1
  2    0 ms         0 ms        0 ms        192.168.20.3

Trace complete.

PC>
```
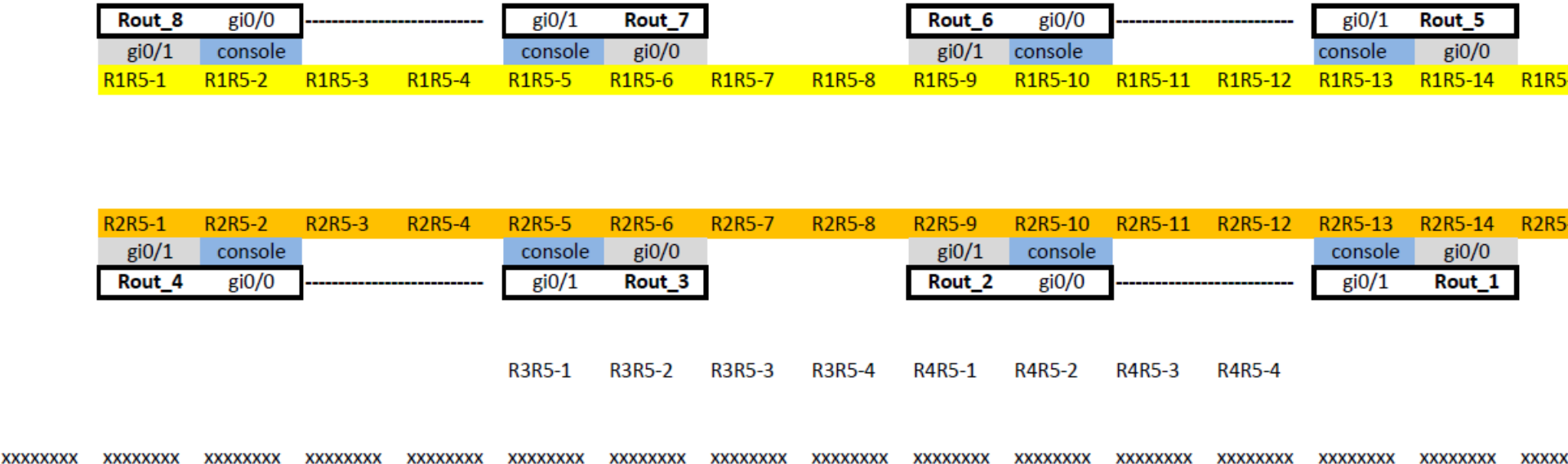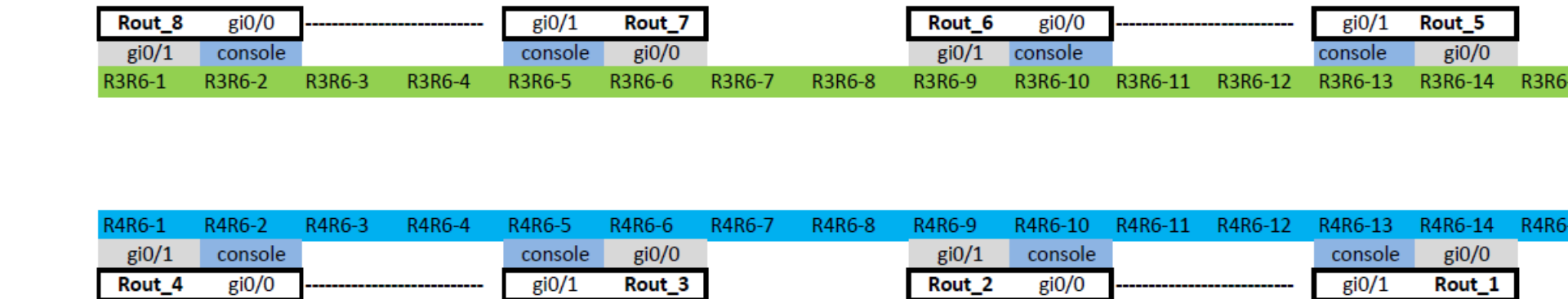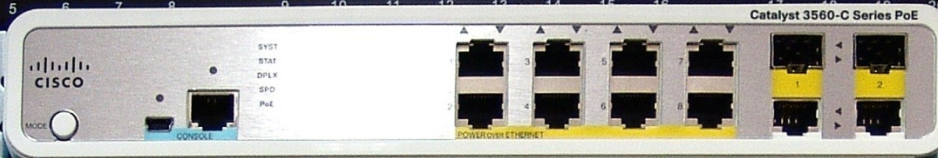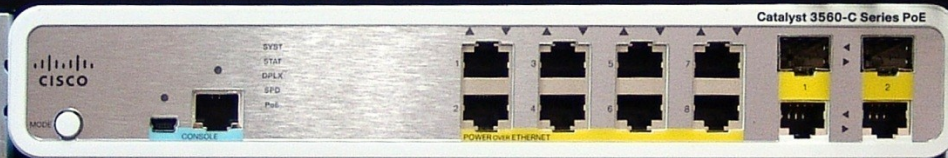
Zapojení skříní č.5 a č.6

Rack 5

Rout_8	gi0/0			gi0/1	Rout_7			Rout_6	gi0/0			gi0/1	Rout_5
gi0/1	console			console	gi0/0			gi0/1	console			console	gi0/0
R1R5-1	R1R5-2	R1R5-3	R1R5-4	R1R5-5	R1R5-6	R1R5-7	R1R5-8	R1R5-9	R1R5-10	R1R5-11	R1R5-12	R1R5-13	R1R5-14	R1R5

R2R5-1	R2R5-2	R2R5-3	R2R5-4	R2R5-5	R2R5-6	R2R5-7	R2R5-8	R2R5-9	R2R5-10	R2R5-11	R2R5-12	R2R5-13	R2R5-14	R2R5
gi0/1	console			console	gi0/0			gi0/1	console			console	gi0/0
Rout_4	gi0/0			gi0/1	Rout_3			Rout_2	gi0/0			gi0/1	Rout_1

| | | | | R3R5-1 | R3R5-2 | R3R5-3 | R3R5-4 | R4R5-1 | R4R5-2 | R4R5-3 | R4R5-4 |

xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx xxxxx

Rack 6

Rout_8	gi0/0			gi0/1	Rout_7			Rout_6	gi0/0			gi0/1	Rout_5
gi0/1	console			console	gi0/0			gi0/1	console			console	gi0/0
R3R6-1	R3R6-2	R3R6-3	R3R6-4	R3R6-5	R3R6-6	R3R6-7	R3R6-8	R3R6-9	R3R6-10	R3R6-11	R3R6-12	R3R6-13	R3R6-14	R3R6

R4R6-1	R4R6-2	R4R6-3	R4R6-4	R4R6-5	R4R6-6	R4R6-7	R4R6-8	R4R6-9	R4R6-10	R4R6-11	R4R6-12	R4R6-13	R4R6-14	R4R6
gi0/1	console			console	gi0/0			gi0/1	console			console	gi0/0
Rout_4	gi0/0			gi0/1	Rout_3			Rout_2	gi0/0			gi0/1	Rout_1

Statické routrování – virtual LAN II.