OSPF + IPv4

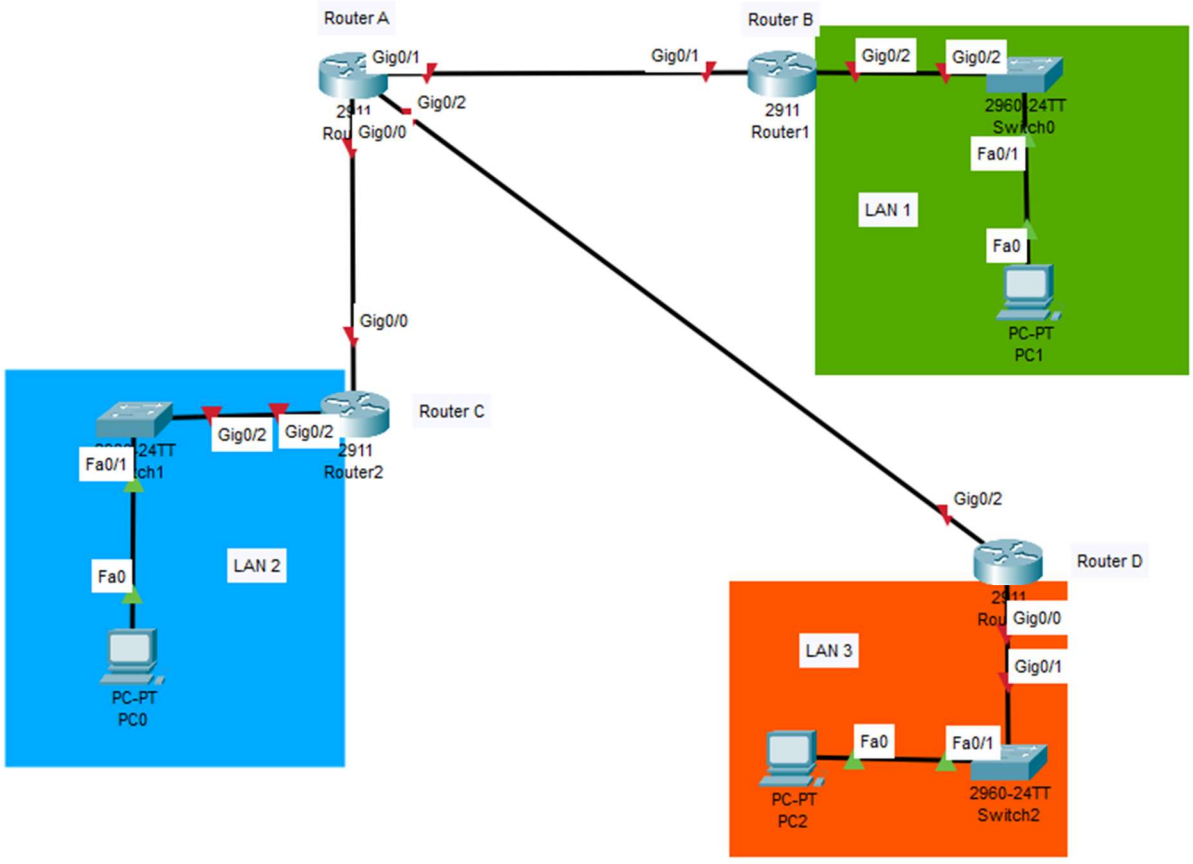
Zařízení:

4x router (2911)

3x switch (2960)

3x PC

Topologie:



Sítě:

- LAN 1: 192.168.1.0/24
  - Router B: 192.168.1.1/24
- LAN 2: 192.168.2.0/24
  - Router C: 192.168.2.1/24
- LAN 3: 192.168.3.0/24
  - Router D: 192.168.3.1/24

- P2P Network A-B: 10.1.1.0/30
    - Router A (Interface Gig0/1): 10.1.1.1/30
    - Router B (Interface Gig0/1): 10.1.1.2/30
- P2P Network A-C: 10.1.2.0/30
    - Router A (Interface Gig0/0): 10.1.2.1/30
    - Router C (Interface Gig0/0): 10.1.2.2/30
- P2P Network A-D: 10.1.3.0/30
    - Router A (Interface Gig0/2): 10.1.3.1/30
    - Router D (Interface Gig0/2): 10.1.3.2/30

OSPF konfigurace

Jako číslo procesu použijeme 1. Všechny routery dáme do oblasti (area) 0, protože naše síť je příliš malá na to, aby se vyplatilo ji dělit.

Pozor! Při zadávání adres sítí používáme wildcardové masky (opak subnetové masky).

Router A:

```
RouterA> enable
RouterA# configure terminal
RouterA(config)# router ospf 1
RouterA(config-router)# network 10.1.1.0 0.0.0.3 area 0
RouterA(config-router)# network 10.1.2.0 0.0.0.3 area 0
RouterA(config-router)# network 10.1.3.0 0.0.0.3 area 0
RouterA(config-router)# end
RouterA# copy running-config startup-config
```

Router B:

```
RouterB> enable
RouterB# configure terminal
RouterB(config)# router ospf 1
RouterB(config-router)# network 10.1.1.0 0.0.0.3 area 0
RouterB(config-router)# network 192.168.1.0 0.0.0.255 area 0
RouterB(config-router)# end
RouterB# copy running-config startup-config
```

Router C:

```
RouterC> enable
RouterC# configure terminal
RouterC(config)# router ospf 1
RouterC(config-router)# network 10.1.2.0 0.0.0.3 area 0
RouterC(config-router)# network 192.168.2.0 0.0.0.255 area 0
RouterC(config-router)# end
RouterC# copy running-config startup-config
```

Router D:

```
RouterD> enable
RouterD# configure terminal
RouterD(config)# router ospf 1
RouterD(config-router)# network 10.1.3.0 0.0.0.3 area 0
RouterD(config-router)# network 192.168.3.0 0.0.0.255 area 0
RouterD(config-router)# end
RouterD# copy running-config startup-config
```