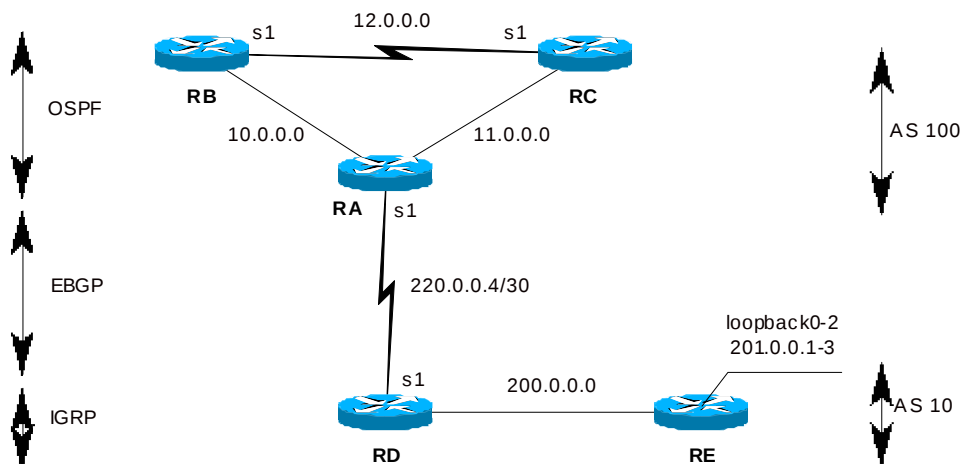


Externí BGP



Nakonfigurujte propojení OSPF sítě s IGRP sítí prostřednictvím externího routovacího protokolu BGP. Sítě 10.0.0.0 až 12.0.0.0 budou z OSPF redistribuovány do BGP routerem **RA**. Z IGRP sítě bude do BGP redistribuován supernet 200.0.0.0/22 routerem **RD**. Vzhledem k nedostatku interface na routeru **RE** budou další sítě simulovány pomocí loopbacků. Router **RE** používá pouze default routu.

Router RA

```
int eth0
  ip address 10.0.0.1 255.0.0.0
  ip ospf cost 9
int eth1
  ip address 11.0.0.1 255.0.0.0
int s1
  ip address 220.0.0.6 255.255.255.252
router ospf 1
  network 10.0.0.0 0.255.255.255 area 0
  network 11.0.0.0 0.255.255.255 area 0
  default-metric 100
  redistribute bgp 10
router bgp 10
  network 10.0.0.0
  network 11.0.0.0
  network 12.0.0.0
  neighbor 220.0.0.5 remote-as 100
```

Router RB

```
int eth0
  ip address 10.0.0.2 255.0.0.0
int s1
  ip address 12.0.0.1 255.0.0.0
  clock rate 2000000
router ospf 1
  network 10.0.0.0 0.255.255.255 area 0
  network 12.0.0.0 0.255.255.255 area 0
```

Router RC

```
int eth0
    ip address 11.0.0.2 255.0.0.0
int s1
    ip address 12.0.0.2 255.0.0.0
router ospf 1
    network 11.0.0.0 0.255.255.255 area 0
    network 12.0.0.0 0.255.255.255 area 0
```

Router RD

```
int eth0
    ip address 200.0.0.1 255.255.255.0
int s1
    ip address 220.0.0.5 255.255.255.252
    clock rate 200000
router igrp 1
    network 200.0.0.0
    network 200.0.1.0
    network 200.0.2.0
    network 200.0.3.0
    default-metric 250 100 1 1 1500
router bgp 100
    redistribute static
    neighbor 220.0.0.6 remote-as 10
ip route 200.0.0.0 255.255.252.0 null0
```

Router RE

```
int loopback 0
    ip address 200.0.1.1 255.255.255.0
int loopback 1
    ip address 200.0.2.1 255.255.255.0
int loopback 2
    ip address 200.0.3.1 255.255.255.0
int eth0
    ip address 200.0.0.2 255.255.255.0
router igrp 1
    network 200.0.0.0
    network 200.0.1.0
    network 200.0.2.0
    network 200.0.3.0
ip route 0.0.0.0 0.0.0.0 200.0.0.1
```

Příkazem `sh ip route` zkontrolujte routovací tabulky na všech routerech sítě. Na routerech **RA** a **RD** zkontrolujte protokol BGP příkazy `sh ip bgp neighbor` a `sh ip bgp`.