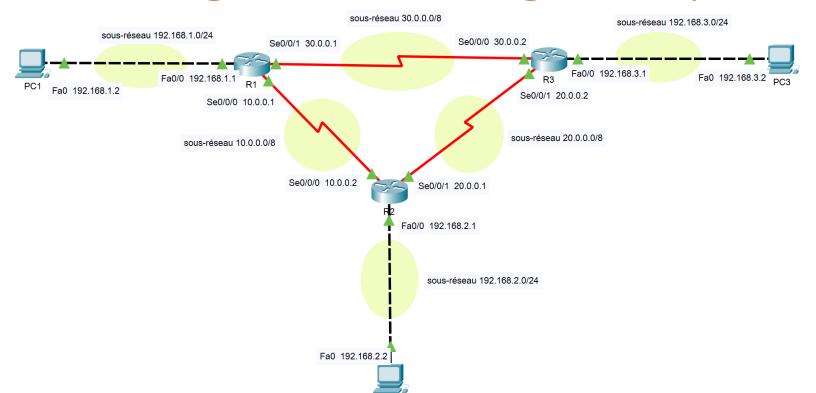
Laboratoire 5 Exemples de routage IP

Configuration Routage statique



R1#configure terminal

R1(config)#ip route 192.168.2.0 255.255.255.0 Se0/0/0 R1(config)#ip route 192.168.3.0 255.255.255.0 Se0/0/1 R1(config)#ip route 20.0.0.0 255.0.0.0 Se0/0/0 R1(config)#exit

R2#configure terminal

R2(config)#ip route 192.168.1.0 255.255.255.0 Se0/0/0 R2(config)#ip route 192.168.3.0 255.255.255.0 Se0/0/1 R2(config)#ip route 30.0.0.0 255.0.0.0 Se0/0/0 R2(config)#exit

R3#configure terminal

R3(config)#ip route 192.168.1.0 255.255.255.0 Se0/0/0 R3(config)#ip route 192.168.2.0 255.255.255.0 Se0/0/1 R3(config)#ip route 10.0.0.0 255.0.0.0 Se0/0/1 R3(config)#exit

R1#show ip route

- C 10.0.0.0/8 is directly connected, SerialO/0/0
- S 20.0.0.0/8 is directly connected, Serial0/0/0
- C 30.0.0.0/8 is directly connected, Serial0/0/1
- C 192.168.1.0/24 is directly connected, FastEthernet0/0
- S 192.168.2.0/24 is directly connected, Serial0/0/0
- S 192.168.3.0/24 is directly connected, Serial0/0/1

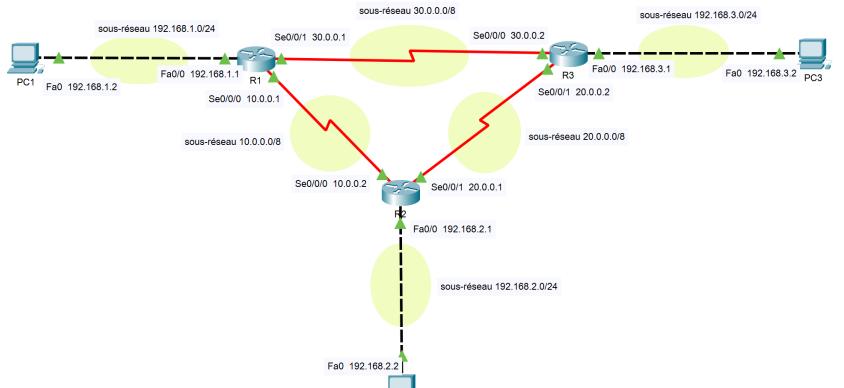
R2#show ip route

- C 10.0.0.0/8 is directly connected, Serial0/0/0
- C 20.0.0.0/8 is directly connected, Serial0/0/1
- S 30.0.0.0/8 is directly connected, Serial0/0/0
- S 192.168.1.0/24 is directly connected, SerialO/0/0
- C 192.168.2.0/24 is directly connected, FastEthernet0/0
- S 192.168.3.0/24 is directly connected, Serial0/0/1

R3#show ip route

- S 10.0.0.0/8 is directly connected, Serial0/0/1
- 20.0.0.0/8 is directly connected, Serial0/0/1
- C 30.0.0.0/8 is directly connected, Serial0/0/0
- 5 192.168.1.0/24 is directly connected, Serial0/0/0
- S 192.168.2.0/24 is directly connected, Serial0/0/1
- C 192.168.3.0/24 is directly connected, FastEthernet0/0

Configuration routage RIPv1



R1#configure terminal
R1(config)#router rip
R1(config-router)#network 192.168.1.0
R1(config-router)#network 10.0.0.0
R1(config-router)#network 30.0.0.0
R1(config-router)#exit

R2#configure terminal
R2(config)#router rip
R2(config-router)#network 192.168.2.0
R2(config-router)#network 10.0.0.0
R2(config-router)#network 20.0.0.0
R2(config-router)#exit

R3#configure terminal
R3(config)#router rip
R3(config-router)#network 192.168.3.0
R3(config-router)#network 20.0.0.0
R3(config-router)#network 30.0.0.0
R3(config-router)#exit

R1#show ip route

- C 10.0.0.0/8 is directly connected, Serial0/0/0
- R 20.0.0.0/8 [120/1] via 10.0.0.2, 00:00:27, Serial0/0/0 [120/1] via 30.0.0.2, 00:00:20, Serial0/0/1
- C 30.0.0.0/8 is directly connected, Serial0/0/1
- C 192.168.1.0/24 is directly connected, FastEthernet0/0
- R 192.168.2.0/24 [120/1] via 10.0.0.2, 00:00:27, Serial0/0/0
- R 192.168.3.0/24 [120/1] via 30.0.0.2, 00:00:20, Serial0/0/1

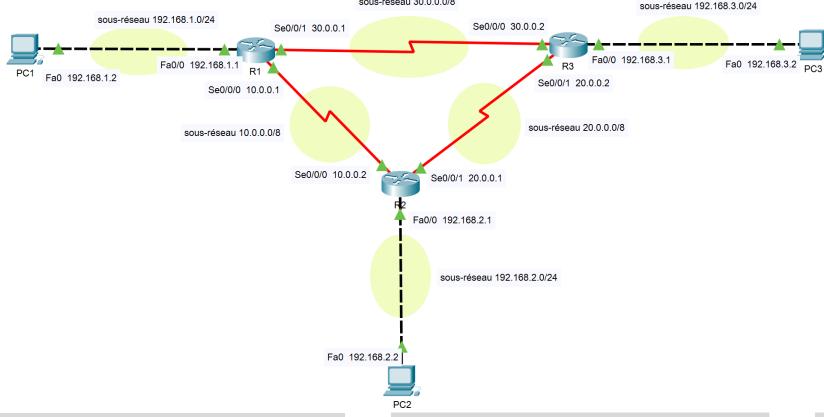
R2#show ip route

- C 10.0.0.0/8 is directly connected, Serial0/0/0
- C 20.0.0.0/8 is directly connected, Serial0/0/1
- R 30.0.0.0/8 [120/1] via 10.0.0.1, 00:00:13, Serial0/0/0 [120/1] via 20.0.0.2, 00:00:21, Serial0/0/1
- R 192.168.1.0/24 [120/1] via 10.0.0.1, 00:00:13, Serial0/0/0
- C 192.168.2.0/24 is directly connected, FastEthernet0/0
- R 192.168.3.0/24 [120/1] via 20.0.0.2, 00:00:21, Serial0/0/1

R3#show ip route

- R 10.0.0.0/8 [120/1] via 30.0.0.1, 00:00:11, Serial0/0/0 [120/1] via 20.0.0.1, 00:00:17, Serial0/0/1
- C 20.0.0.0/8 is directly connected, Serial0/0/1
- C 30.0.0.0/8 is directly connected, Serial0/0/0
- R 192.168.1.0/24 [120/1] via 30.0.0.1, 00:00:11, Serial0/0/0
- R 192.168.2.0/24 [120/1] via 20.0.0.1, 00:00:17, Serial0/0/1
- C 192.168.3.0/24 is directly connected, FastEthernet0/0

Configuration routage RIPv2



R1#show ip route R2#show ip route

- C 10.0.0.0/8 is directly connected, Serial0/0/0
- R 20.0.0.0/8 [120/1] via 10.0.0.2, 00:00:21, Serial0/0/0 [120/1] via 30.0.0.2, 00:00:03, Serial0/0/1
- C 30.0.0.0/8 is directly connected, Serial0/0/1
- C 192.168.1.0/24 is directly connected, FastEthernet0/0
- R 192.168.2.0/24 [120/1] via 10.0.0.2, 00:00:21, Serial0/0/0
- R 192.168.3.0/24 [120/1] via 30.0.0.2, 00:00:03, Serial0/0/1

- C 10.0.0.0/8 is directly connected, Serial0/0/0
- C 20.0.0.0/8 is directly connected, Serial0/0/1
- R 30.0.0.0/8 [120/1] via 10.0.0.1, 00:00:18, Serial0/0/0 [120/1] via 20.0.0.2, 00:00:19, Serial0/0/1
- R 192.168.1.0/24 [120/1] via 10.0.0.1, 00:00:18, Serial0/0/0
- C 192.168.2.0/24 is directly connected, FastEthernet0/0
- R 192.168.3.0/24 [120/1] via 20.0.0.2, 00:00:19, Serial0/0/1

R1#configure terminal

R1(config)#router rip

R1(config-router)#version 2

R1(config-router)#no auto-summary

R1(config-router)#network 192.168.1.0

R1(config-router)#network 10.0.0.0

R1(config-router)#network 30.0.0.0

R1(config-router)#exit

R2#configure terminal

R2(config)#router rip

R2(config-router)#version 2

R2(config-router)#no auto-summary

R2(config-router)#network 192.168.2.0

R2(config-router)#network 10.0.0.0

R2(config-router)#network 20.0.0.0

R2(config-router)#exit

R3#configure terminal

R3(config)#router rip

R3(config-router)#version 2

R3(config-router)#no auto-summary

R3(config-router)#network 192.168.3.0

R3(config-router)#network 20.0.0.0

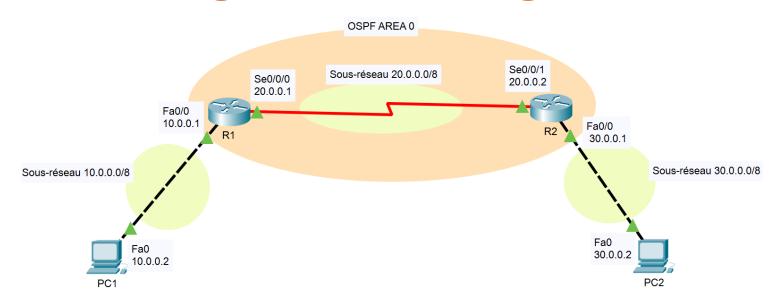
R3(config-router)#network 30.0.0.0

R3(config-router)#exit

R3#show ip route

- R 10.0.0.0/8 [120/1] via 30.0.0.1, 00:00:15, Serial0/0/0 [120/1] via 20.0.0.1, 00:00:09, Serial0/0/1
- C 20.0.0.0/8 is directly connected, Serial0/0/1
- C 30.0.0.0/8 is directly connected, Serial0/0/0
- R 192.168.1.0/24 [120/1] via 30.0.0.1, 00:00:15, Serial0/0/0
- R 192.168.2.0/24 [120/1] via 20.0.0.1, 00:00:09, Serial0/0/1
- C 192.168.3.0/24 is directly connected, FastEthernet0/0

Configuration routage OSPF



R1#configure terminal

R1(config)#router ospf 1

R1(config-router)#network 10.0.0.0 0.255.255.255 area 0

R1(config-router)#network 20.0.0.0 0.255.255.255 area 0

R1(config-router)#passive-interface fa0/0

R1(config-router)#exit

R2#configure terminal

R2(config)#router ospf 1

R2(config-router)#network 20.0.0.0 0.255.255.255 area 0

R2(config-router)#network 30.0.0.0 0.255.255.255 area 0

R2(config-router)#passive-interface fa0/0

R2(config-router)#exit

R1#show ip route

- C 10.0.0.0/8 is directly connected, FastEthernet0/0
- C 20.0.0.0/8 is directly connected, Serial0/0/0
- O 30.0.0.0/8 [110/65] via 20.0.0.2, 00:00:25, Serial0/0/0

