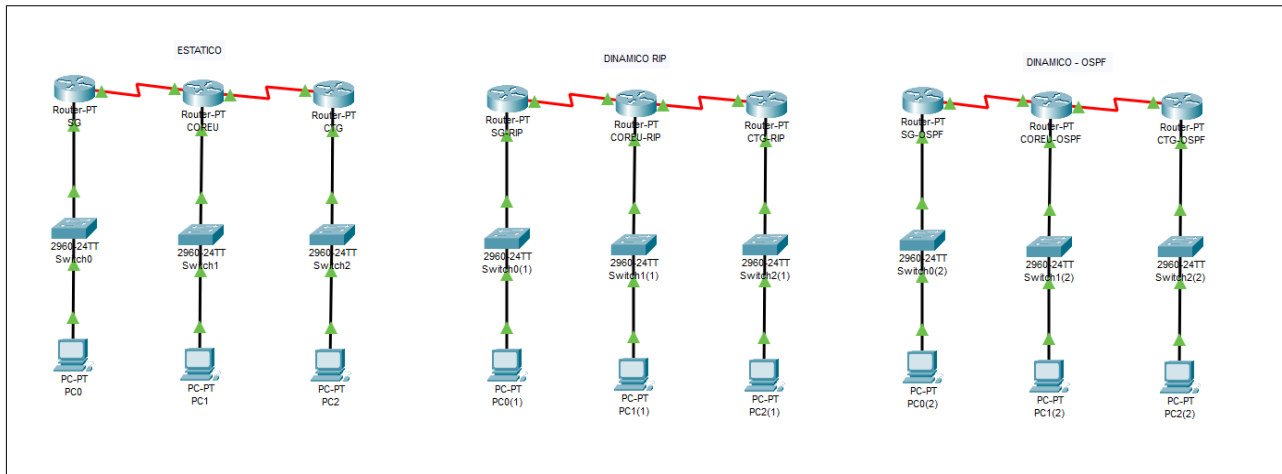# Roteiro 02 - Configuração de Roteadores

<div align="right">Pedro Miranda</div>

1.Print da Topologia montada

2.Show ip route nos roteadores

ESTATICO

```
pedro-miranda-SG>show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

     10.0.0.0/8 is variably subnetted, 3 subnets, 2 masks
C       10.0.0.0/24 is directly connected, Serial2/0
C       10.0.0.1/32 is directly connected, Serial2/0
S       10.1.0.0/24 [1/0] via 10.0.0.1
C    192.168.0.0/24 is directly connected, FastEthernet0/0
S    192.168.1.0/24 [1/0] via 10.0.0.1
S    192.168.2.0/24 [1/0] via 10.0.0.1
```

RIP

```
pedro-miranda-SG>show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

     10.0.0.0/8 is variably subnetted, 3 subnets, 2 masks
C       10.0.0.0/24 is directly connected, Serial2/0
C       10.0.0.1/32 is directly connected, Serial2/0
R       10.1.0.0/24 [120/1] via 10.0.0.1, 00:00:04, Serial2/0
C    192.168.0.0/24 is directly connected, FastEthernet0/0
R    192.168.1.0/24 [120/1] via 10.0.0.1, 00:00:04, Serial2/0
R    192.168.2.0/24 [120/2] via 10.0.0.1, 00:00:04, Serial2/0
```

OSPF

```
pedro-miranda-SG>show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

     10.0.0.0/8 is variably subnetted, 3 subnets, 2 masks
C       10.0.0.0/24 is directly connected, Serial2/0
C       10.0.0.1/32 is directly connected, Serial2/0
O       10.1.0.0/24 [110/128] via 10.0.0.1, 00:11:14, Serial2/0
C    192.168.0.0/24 is directly connected, FastEthernet0/0
O    192.168.1.0/24 [110/65] via 10.0.0.1, 00:11:24, Serial2/0
O    192.168.2.0/24 [110/129] via 10.0.0.1, 00:09:49, Serial2/0

pedro-miranda-SG>
```

3.Pings

ESTATICO

```
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: FE80::230:A3FF:FEDC:74DD
   IPv6 Address....................: ::
   IPv4 Address....................: 192.168.2.2
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.168.2.1

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: ::
   IPv6 Address....................: ::
   IPv4 Address....................: 0.0.0.0
   Subnet Mask.....................: 0.0.0.0
   Default Gateway.................: ::
                                     0.0.0.0

C:\>ping 192.168.0.2

Pinging 192.168.0.2 with 32 bytes of data:

Reply from 192.168.0.2: bytes=32 time=18ms TTL=125
Reply from 192.168.0.2: bytes=32 time=19ms TTL=125
Reply from 192.168.0.2: bytes=32 time=27ms TTL=125
Reply from 192.168.0.2: bytes=32 time=32ms TTL=125

Ping statistics for 192.168.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 18ms, Maximum = 32ms, Average = 24ms
```

RIP

```
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: FE80::202:17FF:FE98:23C3
   IPv6 Address....................: ::
   IPv4 Address....................: 192.168.2.2
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.168.2.1

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: ::
   IPv6 Address....................: ::
   IPv4 Address....................: 0.0.0.0
   Subnet Mask.....................: 0.0.0.0
   Default Gateway.................: ::
                                     0.0.0.0

C:\>ping 192.168.0.2

Pinging 192.168.0.2 with 32 bytes of data:

Reply from 192.168.0.2: bytes=32 time=17ms TTL=125
Reply from 192.168.0.2: bytes=32 time=14ms TTL=125
Reply from 192.168.0.2: bytes=32 time=11ms TTL=125
Reply from 192.168.0.2: bytes=32 time=9ms TTL=125

Ping statistics for 192.168.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 9ms, Maximum = 17ms, Average = 12ms

C:\>
```

OSPF

```
C:\>ipconfig

FastEthernet0 Connection:(default port)

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: FE80::206:2AFF:FE81:A37E
   IPv6 Address....................: ::
   IPv4 Address....................: 192.168.2.2
   Subnet Mask.....................: 255.255.255.0
   Default Gateway.................: ::
                                     192.168.2.1

Bluetooth Connection:

   Connection-specific DNS Suffix..:
   Link-local IPv6 Address.........: ::
   IPv6 Address....................: ::
   IPv4 Address....................: 0.0.0.0
   Subnet Mask.....................: 0.0.0.0
   Default Gateway.................: ::
                                     0.0.0.0

C:\>ping 192.168.0.2

Pinging 192.168.0.2 with 32 bytes of data:

Reply from 192.168.0.2: bytes=32 time=20ms TTL=125
Reply from 192.168.0.2: bytes=32 time=15ms TTL=125
Reply from 192.168.0.2: bytes=32 time=28ms TTL=125
Reply from 192.168.0.2: bytes=32 time=14ms TTL=125

Ping statistics for 192.168.0.2:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 14ms, Maximum = 28ms, Average = 19ms
```