

Teste01

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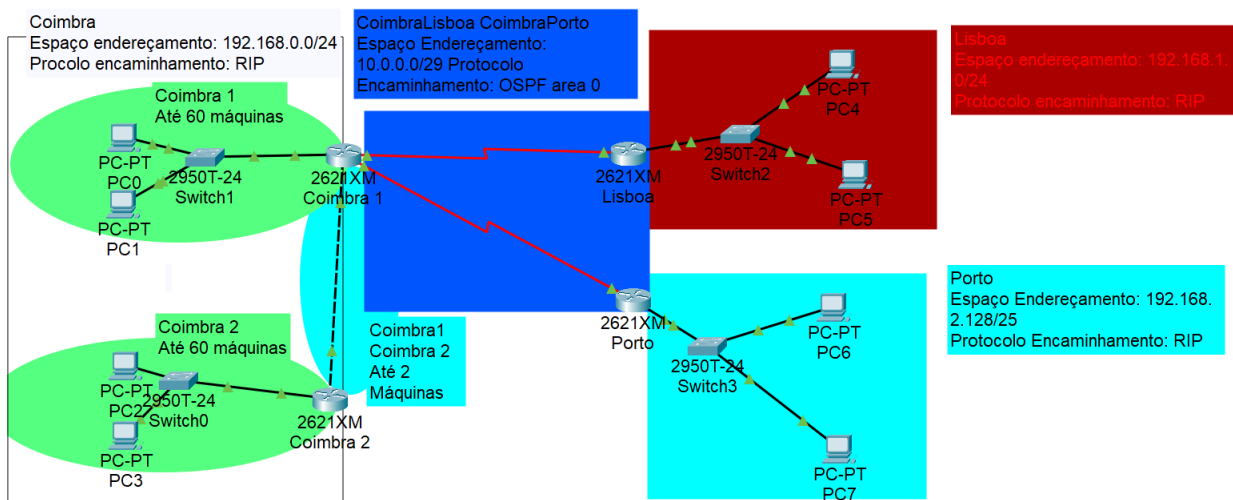
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Routers

Coimbra1

```
Coimbra1#sh run
Building configuration...

Current configuration : 865 bytes
```

```

!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Coimbra1
!
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
!
!
interface FastEthernet0/0
 ip address 192.168.0.62 255.255.255.192
 duplex auto
 speed auto
!
interface FastEthernet0/1
 ip address 192.168.0.129 255.255.255.252
 duplex auto
 speed auto
!
interface Serial0/0
 ip address 10.0.0.1 255.255.255.252
!
interface Serial0/1
 ip address 10.0.0.5 255.255.255.252
!
router ospf 1
 log-adjacency-changes
 redistribute rip subnets
 network 10.0.0.0 0.0.0.3 area 0
 network 10.0.0.4 0.0.0.3 area 0
!
router rip
 version 2
 redistribute ospf 1 metric 10
 network 192.168.0.0
 no auto-summary
!
ip classless
!
ip flow-export version 9
!
!

```

```
!  
line con 0  
!  
line aux 0  
!  
line vty 0 4  
  login  
!  
!  
!  
end
```

Coimbra2

```
Coimbra2#sh run  
Building configuration...  
  
Current configuration : 718 bytes  
!  
version 12.2  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname Coimbra2  
!  
!  
!  
!  
!  
!  
!  
!  
ip cef  
no ipv6 cef  
!  
!  
!  
!  
interface FastEthernet0/0  
  ip address 192.168.0.126 255.255.255.192  
  duplex auto  
  speed auto  
!  
interface FastEthernet0/1  
  ip address 192.168.0.130 255.255.255.252  
  duplex auto  
  speed auto  
!  
interface Serial0/0
```

```

no ip address
clock rate 2000000
shutdown
!
interface Serial0/1
no ip address
clock rate 2000000
shutdown
!
router rip
version 2
network 192.168.0.0
no auto-summary
!
ip classless
!
ip flow-export version 9
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
!
!
!
end

```

Lisboa

```

Lisboa#sh run
Building configuration...

Current configuration : 838 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Lisboa
!
!
!
!
ip cef
no ipv6 cef

```

```

!
!
!
!
interface FastEthernet0/0
  ip address 192.168.1.254 255.255.255.0
  duplex auto
  speed auto
!
interface FastEthernet0/1
  no ip address
  duplex auto
  speed auto
  shutdown
!
interface Serial0/0
  ip address 10.0.0.2 255.255.255.252
  clock rate 56000
!
interface Serial0/1
  no ip address
  clock rate 2000000
  shutdown
!
router ospf 1
  log-adjacency-changes
  redistribute rip subnets
  network 10.0.0.0 0.0.0.3 area 0
!
router rip
  version 2
  redistribute ospf 1 metric 10
  network 192.168.1.0
  no auto-summary
!
ip classless
!
ip flow-export version 9
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
  login
!
!
!
end

```

Porto

```
Porto#sh run
Building configuration...

Current configuration : 839 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Porto
!
!
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
!
!
!
interface FastEthernet0/0
 ip address 192.168.2.254 255.255.255.128
 duplex auto
 speed auto
!
interface FastEthernet0/1
 no ip address
 duplex auto
 speed auto
 shutdown
!
interface Serial0/0
 ip address 10.0.0.6 255.255.255.252
 clock rate 56000
!
interface Serial0/1
 no ip address
 clock rate 2000000
 shutdown
!
router ospf 1
 log-adjacency-changes
 redistribute rip subnets
 network 10.0.0.4 0.0.0.3 area 0
```

```

!
router rip
  version 2
  redistribute ospf 1 metric 10
  network 192.168.2.0
  no auto-summary
!
ip classless
!
ip flow-export version 9
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
  login
!
!
!
end

```

IPs

- Coimbra1 - até 60 máquinas
 $2^6 = 64 \rightarrow 62$ hosts disponíveis
 $32-6 = /26$ (255.255.255.192)
 (Rede + Hosts) - 1
Resultado = 192.168.0.0(Rede)-192.168.0.63(Broadcast)
- Coimbra2 - até 60 máquinas
 $2^6 = 64 \rightarrow 62$ hosts disponíveis
 $32-6 = /26$ (255.255.255.192)
 (Rede + Hosts) - 1
Resultado = 192.168.0.64(Rede)-192.168.0.127(Broadcast)
- Coimbra1-Coimbra2 - até 2 máquinas
 $2^2 = 4 \rightarrow 2$ hosts disponíveis
 $32-2 = /30$ (255.255.255.252)
 (Rede + Hosts) - 1
Resultado = 192.168.0.128(Rede)-192.168.0.131(Broadcast)

- CoimbraLisboa CoimbraPorto
 - `10.0.0.0/29 (255.255.255.248)`
- Lisboa
 - `192.168.1.0/24(255.255.255.0)`
- Porto
 - `192.168.2.128/25(255.255.255.128)`

Resolução

- IP mal na fa0/0 no router Coimbra2
 - Trocar por `ip add 192.168.0.126 255.255.255.128`
- Version RIP v1 no Coimbra2
 - Trocar por `version 2`
- IP e máscara mal na se0/0 no router Porto
 - Trocar por `ip add 10.0.0.6 255.255.255.252`
- IP e máscara mal no PC7 do Porto
 - Trocar por `192.168.2.130` com a máscara `255.255.255.128`
- IP mal na f0/0 do router Lisboa
 - Trocar por `ip add 192.168.1.254 255.255.255.0`