Configuração completa do Switch SW01:

```
Current configuration : 1802 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname SW01
!
!
!
!
vtp mode transparent
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
vlan 10
name VLAN10
!
vlan 20
name VLAN20
!
vlan 30
name VLAN30
!
interface FastEthernet0/1
description Computadores
switchport access vlan 10
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/2
description Computadores
switchport access vlan 20
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/3
description Computadores
switchport access vlan 10
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/4
description Computadores
switchport access vlan 20
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
```

```
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
description TRUNK COM R1
switchport mode trunk
spanning-tree portfast
!
interface GigabitEthernet0/1
description SERVIDOR HTTP
switchport access vlan 30
switchport mode access
spanning-tree portfast
!
interface GigabitEthernet0/2
description CONEXAO COM SW02
switchport mode trunk
!
interface Vlan1
no ip address
shutdown
!
!
!
!
line con 0
!
line vty 0 4
login
```

```
line vty 5 15
login
!
!
!
!
end
```

Configuração completa do Switch SW02:

```
Current configuration : 1328 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname SW02
!
!
!
!
vtp mode transparent
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
vlan 10
name VLAN10
!
vlan 20
name VLAN20
!
interface FastEthernet0/1
description Computadores
switchport access vlan 10
switchport mode access
!
interface FastEthernet0/2
switchport access vlan 20
switchport mode access
!
interface FastEthernet0/3
!
interface FastEthernet0/4
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
```

```
!
interface FastEthernet0/10
!
interface FastEthernet0/11
!
interface FastEthernet0/12
!
interface FastEthernet0/13
!
interface FastEthernet0/14
!
interface FastEthernet0/15
!
interface FastEthernet0/16
!
interface FastEthernet0/17
!
interface FastEthernet0/18
!
interface FastEthernet0/19
!
interface FastEthernet0/20
!
interface FastEthernet0/21
!
interface FastEthernet0/22
!
interface FastEthernet0/23
!
interface FastEthernet0/24
!
interface GigabitEthernet0/1
description CONEXAO COM SW01
switchport mode trunk
!
interface GigabitEthernet0/2
!
interface Vlan1
no ip address
shutdown
!
!
!
!
line con 0
!
line vty 0 4
login
line vty 5 15
login
!
!
!
!
End
```

Configuração completa do Switch SW03:

Current configuration : 3006 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname SW03
!
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
description Computadores
switchport access vlan 40
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/2
description Computadores
switchport access vlan 50
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/3
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/4
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/5
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/6
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/7
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/8
description Computadores

```
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/9
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/10
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/11
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/12
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/13
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/14
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/15
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/16
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/17
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/18
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/19
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/20
description Computadores
```

```
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/21
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/22
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/23
description Computadores
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/24
description Computadores
switchport mode access
spanning-tree portfast
!
interface GigabitEthernet0/1
description TRUNK COM R2
switchport mode trunk
!
interface GigabitEthernet0/2
description TRUNK COM R2
switchport mode trunk
!
interface Vlan1
no ip address
shutdown
!
!
!
!
line con 0
!
line vty 0 4
login
line vty 5 15
login
!
!
!
!
end
```

Configuração completa do Switch SW04:

```
Current configuration : 3551 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
```

```
no service password-encryption
!
hostname SW04
!
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/2
description Computadores
switchport access vlan 70
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/3
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/4
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/5
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/6
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/7
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/8
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
```

```
interface FastEthernet0/9
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/10
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/11
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/12
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/13
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/14
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/15
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/16
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/17
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/18
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
```

```
interface FastEthernet0/19
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/20
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/21
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/22
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/23
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface FastEthernet0/24
description Computadores
switchport access vlan 60
switchport mode access
spanning-tree portfast
!
interface GigabitEthernet0/1
description TRUNK COM R3
switchport mode trunk
!
interface GigabitEthernet0/2
!
interface Vlan1
no ip address
shutdown
!
!
!
!
line con 0
!
line vty 0 4
login
line vty 5 15
login
!
!
!
!
end
```

Configuração completa do Roteador R1:

Current configuration : 2542 bytes
!
version 15.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname R1
!
!
!
!
ip dhcp excluded-address 10.1.10.1 10.1.10.4
ip dhcp excluded-address 10.1.20.1 10.1.20.4
!
ip dhcp pool VLAN-10
network 10.1.10.0 255.255.255.0
default-router 10.1.10.1
dns-server 8.8.8.8
ip dhcp pool VLAN-20
network 10.1.20.0 255.255.255.0
default-router 10.1.20.1
dns-server 8.8.8.8
!
!
!
no ip cef
no ipv6 cef
!
!
!
!
!
!
!
!
!
!
!
!
spanning-tree mode pvst
!
!
!
!
!
!
interface GigabitEthernet0/0/0
ip address 10.99.100.1 255.255.255.252
ip nat inside
duplex auto
speed auto
!
interface GigabitEthernet0/0/1
ip address 200.179.230.38 255.255.255.252
ip nat outside

```
 duplex auto
 speed auto
!
interface GigabitEthernet0/1/0
 description TRUNK COM SW01
 switchport mode trunk
!
interface GigabitEthernet0/1/1
 switchport mode access
 switchport nonegotiate
 shutdown
!
interface GigabitEthernet0/1/2
 switchport mode access
 switchport nonegotiate
 shutdown
!
interface GigabitEthernet0/1/3
 switchport mode access
 switchport nonegotiate
 shutdown
!
interface GigabitEthernet0/2/0
 switchport mode access
 switchport nonegotiate
 shutdown
!
interface GigabitEthernet0/2/1
 switchport mode access
 switchport nonegotiate
 shutdown
!
interface GigabitEthernet0/2/2
 switchport mode access
 switchport nonegotiate
 shutdown
!
interface GigabitEthernet0/2/3
 switchport mode access
 switchport nonegotiate
 shutdown
!
interface Vlan1
 no ip address
 shutdown
!
interface Vlan10
 mac-address 00d0.d356.ea01
 ip address 10.1.10.1 255.255.255.0
 ip nat inside
!
interface Vlan20
 mac-address 00d0.d356.ea02
 ip address 10.1.20.1 255.255.255.0
 ip nat inside
!
interface Vlan30
 mac-address 00d0.d356.ea03
 ip address 10.1.30.1 255.255.255.0
 ip nat inside
```

```
!
router eigrp 1
redistribute static
network 10.1.0.0 0.0.255.255
network 10.99.0.0 0.0.255.255
!
router rip
!
ip nat inside source list INTERNET interface GigabitEthernet0/0/1 overload
ip nat inside source static tcp 10.1.30.5 80 200.179.230.38 80
ip classless
ip route 0.0.0.0 0.0.0.0 200.179.230.37
!
ip flow-export version 9
!
!
ip access-list standard INTERNET
permit 10.1.10.0 0.0.0.255
permit 10.1.20.0 0.0.0.255
permit 10.1.30.0 0.0.0.255
remark ACESSO A INTERNET
permit 10.2.40.0 0.0.0.255
permit 10.2.50.0 0.0.0.255
permit 10.3.60.0 0.0.0.255
permit 10.3.70.0 0.0.0.255
!
no cdp run
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
!
!
!
end
```

Configuração completa do Roteador CPE:

```
Current configuration : 653 bytes
!
version 15.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname CPE
!
!
!
```

```
!
!
!
!
!
no ip cef
no ipv6 cef
!
!
!
!
!
!
!
!
!
!
!
!
spanning-tree mode pvst
!
!
!
!
!
!
interface GigabitEthernet0/0/0
ip address 200.179.230.34 255.255.255.252
duplex auto
speed auto
!
interface GigabitEthernet0/0/1
ip address 200.179.230.37 255.255.255.252
duplex auto
speed auto
!
interface Vlan1
no ip address
shutdown
!
ip classless
ip route 0.0.0.0 0.0.0.0 200.179.230.33
!
ip flow-export version 9
!
!
!
no cdp run
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
```

```
!
!
!
end
```

Configuração completa do Roteador ISP:

```
Current configuration : 659 bytes
!
version 15.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname ISP
!
!
!
!
!
!
!
!
no ip cef
no ipv6 cef
!
!
!
!
!
!
!
!
!
!
!
spanning-tree mode pvst
!
!
!
!
!
!
interface GigabitEthernet0/0/0
ip address 200.179.230.33 255.255.255.252
duplex auto
speed auto
!
interface GigabitEthernet0/0/1
ip address 8.8.8.1 255.255.255.0
duplex auto
speed auto
!
interface Vlan1
no ip address
shutdown
!
```

```
ip classless
ip route 200.179.230.36 255.255.255.252 200.179.230.34
!
ip flow-export version 9
!
!
!
no cdp run
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
!
!
!
end
```

Configuração completa do Roteador R2:

```
Current configuration : 1812 bytes
!
version 15.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname R2
!
!
!
!
!
!
!
!
no ip cef
no ipv6 cef
!
!
!
!
!
!
!
!
!
!
!
!
```

```
spanning-tree mode pvst
!
!
!
!
!
!
interface GigabitEthernet0/0/0
ip address 10.99.100.2 255.255.255.252
duplex auto
speed auto
!
interface GigabitEthernet0/0/1
ip address 10.99.100.5 255.255.255.252
duplex auto
speed auto
!
interface GigabitEthernet0/1/0
description TRUNK COM SW02
switchport mode trunk
!
interface GigabitEthernet0/1/1
switchport mode access
switchport nonegotiate
shutdown
!
interface GigabitEthernet0/1/2
switchport mode access
switchport nonegotiate
shutdown
!
interface GigabitEthernet0/1/3
switchport mode access
switchport nonegotiate
shutdown
!
interface GigabitEthernet0/2/0
switchport mode access
switchport nonegotiate
shutdown
!
interface GigabitEthernet0/2/1
switchport mode access
switchport nonegotiate
shutdown
!
interface GigabitEthernet0/2/2
switchport mode access
switchport nonegotiate
shutdown
!
interface GigabitEthernet0/2/3
switchport mode access
switchport nonegotiate
shutdown
!
interface Vlan1
no ip address
shutdown
!
```

```
interface Vlan40
mac-address 00d0.bae1.5a01
ip address 10.2.40.1 255.255.255.0
!
interface Vlan50
mac-address 00d0.bae1.5a02
ip address 10.2.50.1 255.255.255.0
!
router eigrp 1
redistribute ospf 1 metric 10000 1000 255 1 1500
network 10.2.0.0 0.0.255.255
network 10.99.0.0 0.0.255.255
!
router ospf 1
log-adjacency-changes
redistribute eigrp 1 subnets
network 10.2.0.0 0.0.255.255 area 0
network 10.99.100.0 0.0.0.255 area 0
default-information originate
!
router rip
!
ip classless
!
ip flow-export version 9
!
!
!
no cdp run
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
!
!
!
end
```

Configuração completa do Roteador R3:

```
Current configuration : 1645 bytes
!
version 15.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname R3
!
```

```
!
!
!
!
!
!
!
no ip cef
no ipv6 cef
!
!
!
!
!
!
!
!
!
!
!
spanning-tree mode pvst
!
!
!
!
!
!
interface GigabitEthernet0/0/0
ip address 10.99.100.6 255.255.255.252
duplex auto
speed auto
!
interface GigabitEthernet0/0/1
description TRUNK COM SW03
no ip address
duplex auto
speed auto
!
interface GigabitEthernet0/0/1.60
encapsulation dot1Q 60
ip address 10.3.60.1 255.255.255.0
!
interface GigabitEthernet0/0/1.70
encapsulation dot1Q 70
ip address 10.3.70.1 255.255.255.0
!
interface GigabitEthernet0/1/0
switchport mode access
switchport nonegotiate
!
interface GigabitEthernet0/1/1
switchport mode access
switchport nonegotiate
shutdown
!
interface GigabitEthernet0/1/2
switchport mode access
switchport nonegotiate
shutdown
```

```
!
interface GigabitEthernet0/1/3
switchport mode access
switchport nonegotiate
shutdown
!
interface GigabitEthernet0/2/0
switchport mode access
switchport nonegotiate
shutdown
!
interface GigabitEthernet0/2/1
switchport mode access
switchport nonegotiate
shutdown
!
interface GigabitEthernet0/2/2
switchport mode access
switchport nonegotiate
shutdown
!
interface GigabitEthernet0/2/3
switchport mode access
switchport nonegotiate
shutdown
!
interface Vlan1
no ip address
shutdown
!
router ospf 1
log-adjacency-changes
network 10.3.0.0 0.0.255.255 area 0
network 10.99.100.0 0.0.0.255 area 0
!
router rip
!
ip classless
!
ip flow-export version 9
!
!
!
no cdp run
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
login
!
!
!
end
```