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Subneteo IPv4 172.16.0.0/16

20,000 hosts - 255.255.128.0

11111111.11111111.00000000.0000000 (255.255.0.0) 11111111.11111111.10000000.0000000

32,768 host en total

1 bits para subred: 2 subredes

7 bits para hosts: 128 host por subred

1000 hosts - 255.255.252.0

11111111.11111111.00000000.00000000 (255.255.0.0) 11111111.1111111111111100.0000000

1024 hosts en total

6 bits para subred: 64 subredes2 bits para host: 4 host por subred

100 hosts - 255.255.255.128

11111111.11111111.00000000.00000000 (255.255.0.0) 11111111.111111111111111111.10000000

128 hosts en total

1 bit para subred: 2 subredes

7 bits para host: 128 host por subred

40 hosts - 255.255.255.192

1111111111111111111000000000.00000000 (255.255.0.0)

11111111.11111111.11111111.11000000

64 hosts en total

2 bits para subred: 4 subredes

6 bits para host: 64 hosts por subred

2 hosts - 255.255.255.252

11111111.00000000.00000000.00000000 (255.0.0.0)

11111111.111111111.11111110.11111100

4 hosts en total

6 bits para subred: 64 subredes

2 bits para host: 4 hosts por subred

Tabla de Rangos

20,000 hosts - 255.255.128.0 172.16.132.127

172.16.0.0

172.16.127.255 **40 hosts - 255.255.255.128**

172.16.132.128

1000 hosts - 255.255.252.0 172.16.132.191

172.16.128.0

172.16.131.255 **2 hosts - 255.255.255.252**

172.16.132.192

100 hosts - 255.255.255.128 172.16.132.195

172.16.132.0

2 hosts - 255.255.255.252

172.16.132.196

172.16.132.199

2 hosts - 255.255.255.252

172.16.132.200

172.16.132.203

Tabla de Asignación de Direcciones

Dispositivo	Interfaz	IPv4	IPv6
R1	Gigabit0/0	172.16.132.129/26	2001:1234:abcd:4::1/64
	Se0/0/0	172.16.132.194/30	2001:1234:abcd:5::2/64
	Se0/0/1	172.16.132.197/30	2001:1234:abcd:7::1/64
R2	Gigabit0/0	172.16.128.1/22	2001:1234:abcd:3::1/64
	Se0/0/1	172.16.132.193/30	2001:1234:abcd:5::1/64
	Se0/1/0	172.16.132.202/30	2001:1234:abcd:6::2/64
R3	Gigabit0/0	172.16.132.1/25	2001:1234:abcd:1::1/64
	Gigabit0/1	172.16.0.1/17	2001:1234:abcd:2::1/64
	Se0/0/0	172.16.132.198/30	2001:1234:abcd:7::2/64
	Se0/1/0	172.16.132.201/30	2001:1234:abcd:6::1/64

Dispositivo	Interfaz	IPv4	IPv6
S0	Vlan1	172.16.132.2/25	no aplica
S1	Vlan1	172.16.0.2/17	no aplica
S3	Vlan1	172.16.128.2/22	no aplica
S4	Vlan1	172.16.132.130/26	no aplica
PC0	FastEthernet	172.16.132.3/25	2001:1234:abcd:1::3/64
PC1	FastEthernet	172.16.0.3/17	2001:1234:abcd:2::3/64
PC3	FastEthernet	172.16.128.3/22	2001:1234:abcd:3::3/64
PC4	FastEthernet	172.16.132.131/26	2001:1234:abcd:4::3/64