

## Ruteo RIP

ESPECIFICACIÓN
Dirección IP de la subred: <b>220.15.0.0/27</b>
Máscara de subred: <b>255.255.255.224</b>
Cantidad de host utilizables por la subred: <b>30</b>
Primera dirección del host: <b>220.15.0.1</b>
Última dirección de host: <b>220.15.0.30</b>

ESPECIFICACIÓN
Dirección IP de la subred: <b>119.15.0.0/25</b>
Máscara de subred: <b>255.255.255.128</b>
Cantidad de host utilizables por la subred: <b>126</b>
Primera dirección del host: <b>119.15.0.1</b>
Última dirección de host: <b>119.15.0.126</b>

ESPECIFICACIÓN
Dirección IP de la subred: <b>112.168.15.0/26</b>
Máscara de subred: <b>255.255.255.192</b>
Cantidad de host utilizables por la subred: <b>62</b>
Primera dirección del host: <b>112.168.15.1</b>
Última dirección de host: <b>112.168.15.62</b>

ESPECIFICACIÓN
Dirección IP de la subred: <b>110.15.0.0/23</b>
Máscara de subred: <b>255.255.254.0</b>
Cantidad de host utilizables por la subred: <b>510</b>
Primera dirección del host: <b>110.15.0.1</b>
Última dirección de host: <b>110.15.1.10</b>

Tabla de direccionamiento, la cual debe contener la siguiente información por cada dispositivo conectado en la topología:

Dispositivo	Interfaz	Dirección IP	Máscara de Subred	Gateway por defecto
R1	Se0/0/1/0	1.2.3.1	255.255.255.252	—
	Se0/0/1/1	4.5.6.1	255.255.255.252	—
	Fa0/0	220.15.0.30	255.255.255.224	—
R2	Se0/0/0	1.4.2.1	255.255.255.252	—
	Se0/1/0	4.5.6.2	255.255.255.252	—
	Se0/1/1	1.2.4.1	255.255.255.252	—
	Fa0/0	112.168.15.62	255.255.255.192	—
R3	Se0/0/0	1.4.2.2	255.255.255.252	—
	Se0/1/0	1.2.3.2	255.255.255.252	—
	Se0/1/1	1.3.6.1	255.255.255.252	—
	Fa0/0	119.15.0.126	255.255.255.128	—
R4	Se0/1/0	1.3.6.2	255.255.255.252	—
	Se0/1/1	1.2.4.2	255.255.255.252	—
	Fa0/0	110.15.1.10	255.255.254.0	—
PC0	NIC	220.15.0.1	255.255.255.224	220.15.0.30
PC1	NIC	220.15.0.2	255.255.255.224	220.15.0.30
PC2	NIC	112.168.15.1	255.255.255.192	112.168.15.62
PC3	NIC	112.168.15.2	255.255.255.192	112.168.15.62
PC4	NIC	119.15.0.1	255.255.255.128	119.15.0.126
PC5	NIC	119.15.0.2	255.255.255.128	119.15.0.126
PC6	NIC	110.15.0.1	255.255.254.0	110.15.1.10
PC7	NIC	110.15.0.2	255.255.254.0	110.15.1.10

Tabla de ruteo para cada uno de los ruteadores, con el siguiente formato:

Origen	Máscara	Dirección de red	Dirección de Próximo Salto	Interfaz de salida
R1	255.255.255.252	1.2.3.0	—	Se0/1/0
	255.255.255.252	1.2.4.0	4.5.6.2	Se0/1/1
	255.255.255.252	1.3.6.0	1.2.3.2	Se0/1/0
	255.255.255.252	1.4.2.0	4.5.6.2	Se0/1/1
			1.2.3.2	Se0/1/0
	255.255.255.252	4.5.6.0	—	Se0/1/1
	255.255.254.0	110.15.0.0	4.5.6.2	Se0/1/1
			1.2.3.2	Se0/1/0
	255.255.255.192	112.168.15.0	4.5.6.2	Se0/1/1
	255.255.255.128	119.15.0.0	1.2.3.2	Se0/1/0
	255.255.255.224	220.15.0.0	—	Fa0/0
R2	255.255.255.252	1.2.3.0	4.5.6.1	Se0/1/0
	255.255.255.252	1.2.4.0	—	Se0/1/1
	255.255.255.252	1.3.6.0	1.2.4.2	Se0/1/1
	255.255.255.252	1.4.2.0	—	Se0/0/0
	255.255.255.252	4.5.6.0	—	Se0/1/0
	255.255.254.0	110.15.0.0	1.2.4.2	Se0/1/1
	255.255.255.192	112.168.15.0	—	Fa0/0
	255.255.255.128	119.15.0.0	1.4.2.2	Se0/0/0
	255.255.255.224	220.15.0.0	4.5.6.1	Se0/1/0
R3	255.255.255.252	1.2.3.0	—	Se0/1/0
	255.255.255.252	1.2.4.0	1.3.6.2	Se0/1/1
	255.255.255.252	1.3.6.0	—	Se0/1/1
	255.255.255.252	1.4.2.0	—	Se0/0/0
	255.255.255.252	4.5.6.0	1.2.3.1	Se0/1/0
	255.255.254.0	110.15.0.0	1.3.6.2	Se0/1/1
	255.255.255.192	112.168.15.0	1.4.2.1	Se0/0/0
	255.255.255.128	119.15.0.0	—	Fa0/0
	255.255.255.224	220.15.0.0	1.2.3.1	Se0/1/0
R4	255.255.255.252	1.2.3.0	1.3.6.1	Se0/1/0
	255.255.255.252	1.2.4.0	—	Se0/1/1
	255.255.255.252	1.3.6.0	—	Se0/1/0
	255.255.255.252	1.4.2.0	1.2.4.1	Se0/1/1
	255.255.255.252		1.3.6.1	Se0/1/0
	255.255.255.252	4.5.6.0	1.2.4.1	Se0/1/1
	255.255.254.0	110.15.0.0	—	Fa0/0
	255.255.255.192	112.168.15.0	1.2.4.1	Se0/1/1
	255.255.255.128	119.15.0.0	1.3.6.1	Se0/1/0
	255.255.255.224	220.15.0.0	1.2.4.1	Se0/1/1
	255.255.255.224		1.3.6.1	Se0/1/0

## Castillo Martínez Leonel Jafet

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R1#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

    1.0.0.0/30 is subnetted, 4 subnets
C       1.2.3.0 is directly connected, Serial0/1/0
R       1.2.4.0 [120/1] via 4.5.6.2, 00:00:16, Serial0/1/1
R       1.3.6.0 [120/1] via 1.2.3.2, 00:00:18, Serial0/1/0
R       1.4.2.0 [120/1] via 4.5.6.2, 00:00:16, Serial0/1/1
        [120/1] via 1.2.3.2, 00:00:18, Serial0/1/0
    4.0.0.0/30 is subnetted, 1 subnets
C       4.5.6.0 is directly connected, Serial0/1/1
    110.0.0.0/23 is subnetted, 1 subnets
R       110.15.0.0 [120/2] via 4.5.6.2, 00:00:16, Serial0/1/1
        [120/2] via 1.2.3.2, 00:00:18, Serial0/1/0
    112.0.0.0/26 is subnetted, 1 subnets
R       112.168.15.0 [120/1] via 4.5.6.2, 00:00:16, Serial0/1/1
    119.0.0.0/25 is subnetted, 1 subnets
R       119.15.0.0 [120/1] via 1.2.3.2, 00:00:18, Serial0/1/0
    220.15.0.0/27 is subnetted, 1 subnets
C       220.15.0.0 is directly connected, FastEthernet0/0

R1#

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R2#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

    1.0.0.0/30 is subnetted, 4 subnets
R       1.2.3.0 [120/1] via 4.5.6.1, 00:00:13, Serial0/1/0
C       1.2.4.0 is directly connected, Serial0/1/1
R       1.3.6.0 [120/1] via 1.2.4.2, 00:00:13, Serial0/1/1
C       1.4.2.0 is directly connected, Serial0/0/0
    4.0.0.0/30 is subnetted, 1 subnets
C       4.5.6.0 is directly connected, Serial0/1/0
    110.0.0.0/23 is subnetted, 1 subnets
R       110.15.0.0 [120/1] via 1.2.4.2, 00:00:13, Serial0/1/1
    112.0.0.0/26 is subnetted, 1 subnets
C       112.168.15.0 is directly connected, FastEthernet0/0
    119.0.0.0/25 is subnetted, 1 subnets
R       119.15.0.0 [120/1] via 1.4.2.2, 00:00:17, Serial0/0/0
    220.15.0.0/27 is subnetted, 1 subnets
R       220.15.0.0 [120/1] via 4.5.6.1, 00:00:13, Serial0/1/0

R2#

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R3#show ip ro
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

    1.0.0.0/30 is subnetted, 4 subnets
C       1.2.3.0 is directly connected, Serial0/1/0
R       1.2.4.0 [120/1] via 1.3.6.2, 00:00:08, Serial0/1/1
C       1.3.6.0 is directly connected, Serial0/1/1
C       1.4.2.0 is directly connected, Serial0/0/0
    4.0.0.0/30 is subnetted, 1 subnets
R       4.5.6.0 [120/1] via 1.2.3.1, 00:00:06, Serial0/1/0
    110.0.0.0/23 is subnetted, 1 subnets
R       110.15.0.0 [120/1] via 1.3.6.2, 00:00:08, Serial0/1/1
    112.0.0.0/26 is subnetted, 1 subnets
R       112.168.15.0 [120/1] via 1.4.2.1, 00:00:06, Serial0/0/0
    119.0.0.0/25 is subnetted, 1 subnets
C       119.15.0.0 is directly connected, FastEthernet0/0
    220.15.0.0/27 is subnetted, 1 subnets
R       220.15.0.0 [120/1] via 1.2.3.1, 00:00:06, Serial0/1/0

R3#

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R4#show ip ro
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

    1.0.0.0/30 is subnetted, 4 subnets
R       1.2.3.0 [120/1] via 1.3.6.1, 00:00:22, Serial0/1/0
C       1.2.4.0 is directly connected, Serial0/1/1
C       1.3.6.0 is directly connected, Serial0/1/0
R       1.4.2.0 [120/1] via 1.2.4.1, 00:00:27, Serial0/1/1
           [120/1] via 1.3.6.1, 00:00:22, Serial0/1/0
    4.0.0.0/30 is subnetted, 1 subnets
R       4.5.6.0 [120/1] via 1.2.4.1, 00:00:27, Serial0/1/1
    110.0.0.0/23 is subnetted, 1 subnets
C       110.15.0.0 is directly connected, FastEthernet0/0
    112.0.0.0/26 is subnetted, 1 subnets
R       112.168.15.0 [120/1] via 1.2.4.1, 00:00:27, Serial0/1/1
    119.0.0.0/25 is subnetted, 1 subnets
R       119.15.0.0 [120/1] via 1.3.6.1, 00:00:22, Serial0/1/0
    220.15.0.0/27 is subnetted, 1 subnets
R       220.15.0.0 [120/2] via 1.2.4.1, 00:00:27, Serial0/1/1
           [120/2] via 1.3.6.1, 00:00:22, Serial0/1/0

R4#

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