



LAND
$$\rightarrow$$
 0 + 4 + 2 = 6 \approx 2³
LAN1 \rightarrow 1000 + 1 + 2 = 1003 \approx 2¹⁰
LAN2 \rightarrow 251 + 2 + 2 = 255 \approx 2⁸
LAN3 \rightarrow 60 + 2 + 2 = 64 \approx 2⁶
LAN4 \rightarrow 9 + 1 + 2 = 12 \approx 2⁴
LAN5 \rightarrow 14 + 1 + 2 = 17 \approx 2⁵

No hay enlaces punto a punto La subredes necesarias son $5 \approx 2^3 = 8$

Necesitaria $2^{19} \cdot 2^3 = 2^{13}$, 13 bits, pero el gencicio me proporciona una dirección a usar 172. 16.0.0 / 16 (16)

VLSM - hecho en la luja que no es plio

1) LAN1: id red: 172.16.0.0/22 id. broadcast: 172.16.3 255	1.6.21.5FF - RA - 1MA
Tango: 172.16.0. \ 2 255 \\ 172.16.1. \ 0 255 \\ 172.16.2. \ 0 255 \\ 172.16.3. \ 0 233 \\	
LANZ: id red: 172.16.4.0/24 id braadcast: 172.16.4.255 (ango: 172.16.4.253)	LAN2-R2: 172.16.4.1 LAN2-R9: 172.16.4.2
LAN3: id red 172.16.5.0 /26 id broadcast: 172.16.5.63 rango: 172.16.5. {362}	LAN3-R3 : 172.16.5 1 LAN3-RY : 172.16.5.2
LANG: id. red: 172.16.5.64 /27 id. broadcast: 172.16.5.95 vango: 172.16.5. {6679}	LAN5 - 124: 172.16.5.65
LAN4: id.red: 172.16.5.96 / 27 id.braadcast: 172.16.5.111 rango: 172.16.5 / 98106 }	LAN4 - R3 : 172, 16-5,97

LANO: id red: 172. 16.5. 112 /29

Id. broadcast: 172. 16.5. 119

LANO-RN: 172. 16.5. 119

LANO-RN: 172. 16.5. 115

LANO-RS: 172. 16.5. 116

255 - 3

2) Tablas de enrulanients RI, R3 y R4 y un equipo LANS

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Bestino	Sig. salto	Ifat
172.16.0.0/22 LANA	E. div	172.16.0.1
172.16.5.112/29 LANO	E.dir	172.16.5.114
172.16.4.0/24 LANZ	172.16.5.115	172.16-5-114
172, 16.5.0/26 LANS	177-16:5-116:1	172.16.5.114
172.16.5.96 27 LANY	172.16.5.116	177.16.5.114
172.16.5.64/2t	172.16.5.115 1 ^{cs} router	172.16.5.114
Defautt	172.16.5.113	172.165.114

R3

Destino	Sig. Salto	Ífaz
172 16.5.112 25 CANO	Edir	172. 16.5. 116
172.16 5 96/28 LARIA	E.dir	172.16.5 97
172.16.5.0/26 LANS	E.dir	172-16.5.1
172.16.5 64/27 LANS	172.16.5.2	172. 16.5.1
172.16.4.0/24 UNZ	172.16.5.115	172.16.5.116
172.16.0.0/22 LANA	172.16.5,114	172.16.5 116
Default	172.16.5.118	172.16.5.116

Pestino	Sig.salto	Ijar	
171.16.4.0	Edir	172.16.4.2	
172, 16.5.0	Edir	172.16.5.2	
172.16.5 64 LANS	E.dir	172.16.5.65	agrupor
17216.5.96 LANY	172.10.5.1	172.165.2 Quitar ~	
172.16.0.0	172.6.4.1	172. 16 4.2	-1)
172. 16. B. 112	172.16.4.1	172.16.4 2	Mulder
Default	172.165.1	172.16.5.2	1 v ory

172. 16.5.4) -> LAN 3

Destino	Sig. salto	Ilan	
172,16.5.0/26 CANB	E dir	172.16.5.4	
172.16.5.96/28 LANY	72. 6.5. <i>1</i>	172.16.5.4	
172, 16 5 64/27 LANS	172.16 5.2	172.16.5.4	
172.16.4.0/14 IAN2	172.165.2	172.16.5.4	
172.16.0.0/22 IMM	172.16.5.1	172.16.5.4	
172.16.5 112/29 LANO	172.16.5 1	172.16.5.4	
Default	172-16-5-1	172.16.5.4	- Lile

RO - LANY

2380	= 1/20 x	2 frag
1980		1

	TTL	bZ	Flag	Desp	Datos	Γ]
Ŧ1	9	7890	MF= 1 DF = 0	0	1976+20=1996	[0 1975]
Ŧ2	9	7890	MF:0 DF:0	247	404+20=424	[1976 2379]
					1980 = 247 5 + 7	2380 (976 404 1980 = 133 × 2 frag
(23				1976) Jano & fragmenta parque MTU=1500
	TTL	Id	Flog	Desp	Datos	[]
F1-1	8	7890	MF= 1 DF = 0	0	1480 +20=1500	[0 1479]
F4-2	8	7890	MF= 1 DF = 0	175	496+20=516	[14801975]
F2	8	7890	0t= 0	247	404+20=424	[19762379]
					1480 = 185	1480 +404 = 1884 2380 - 1884 = 496