Cálculo de redes.

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Fundamentos de Telecomunicaciones

P	172.16.0.0/19					
ID	IP	10101100	00010000	00000000	00000000	172.16.0.0
WCARD	MASK	11111111	11111111	11100000	00000000	255.255.224.0
BCAST	ID	10101100	00010000	00000000	00000000	172.16 0.0/19
15T IP	WCARD	00000000	00000000	00011111	11111111	0.0.31.255
T72.16.0.0/21 IP	BCAST	10101100	00010000	00011111	11111111	172.16.31.255
172.16.0.0/21	1ST IP	10101100	00010000	00000000	00000001	172.16.0.1
IP	LAST IP	10101100	00010000	00011111	11111110	172.16.31.254
IP						
MASK	172.16.0.0/21					
ID	IP	10101100	00010000	00000000	00000000	172.16.0.0
WCARD	MASK	11111111	11111111	11111000	00000000	255.255.248.0
BCAST 10101100 00010000 00000111 11111111	ID	10101100	00010000	00000000	00000000	172.16 0.0/21
1ST P	WCARD	00000000	00000000	00000111	11111111	0.0.7.255
LAST IP 10101100 00010000 00000111 11111110 172.16.7.254	BCAST	10101100	00010000	00000111	11111111	172.16.7.255
172.16.8.0/22 IP	1ST IP	10101100	00010000	00000000	00000001	172.16.0.1
IP	LAST IP	10101100	00010000	00000111	11111110	172.16.7.254
IP						
MASK	172.16.8.0/22					
ID	IP	10101100	00010000	00001000	00000000	172.16.8.0
WCARD	MASK	11111111	11111111	11111100	00000000	255.255.252.0
BCAST	ID	10101100	00010000	00001000	00000000	172.16 8.0/22
1ST IP	WCARD	00000000	00000000	00000011	11111111	0.0.3.255
T72.16.12.0/22 IP	BCAST	10101100	00010000	00001011	11111111	172.16.11.255
172.16.12.0/22 IP	1ST IP	10101100	00010000	00001000	0000001	172.16.8.1
IP	LAST IP	10101100	00010000	00001011	11111110	172.16.11.254
IP						
MASK 11111111 11111111 11111100 00000000 255.255.252.0 ID 10101100 00010000 00001100 00000000 172.16 12.0/22 WCARD 00000000 00000000 00000011 11111111 172.16 15.255 BCAST 10101100 00010000 00001100 00000001 172.16 15.255 1ST IP 10101100 00010000 00001100 00000001 172.16 12.1 LAST IP 10101100 00010000 00001111 11111110 172.16 16 .0 254 Transparent	172.16.12.0/22					
ID	IP	10101100	00010000	00001100	00000000	
WCARD 00000000 00000000 00000001 11111111 0.0.3.255 BCAST 10101100 00010000 00001111 11111111 172.16.15.255 1ST IP 10101100 00010000 00001100 00000001 172.16.12.1 LAST IP 10101100 00010000 00001111 11111110 172.16.16.254 ITZ.16.16.0/23 IP 10101100 00010000 00010000 00000000 172.16.16.0 MASK 11111111 11111111 11111110 00000000 255.255.254.0 ID 10101100 00010000 00010000 00000000 172.16 16.0/23 WCARD 00000000 00000000 00010000 11111111 172.16.17.255 1ST IP 10101100 00010000 00010000 00010000 172.16.16.1	MASK	11111111	11111111	11111100	00000000	255.255.252.0
BCAST 10101100 00010000 00001111 11111111 172.16.15.255 1ST IP 10101100 00010000 00001100 00000001 172.16.12.1 LAST IP 10101100 00010000 00001111 11111110 172.16.16.254 172.16.16.0/23 IP 10101100 00010000 00010000 00000000 172.16.16.0 MASK 11111111 11111111 11111110 00000000 255.255.254.0 ID 10101100 00010000 00010000 00000000 172.16 16.0/23 WCARD 00000000 00000000 00010000 11111111 172.16.17.255 BCAST 10101100 00010000 00010000 00010000 172.16.16.1 1ST IP 10101100 00010000 00010000 00010000 172.16.16.1	ID	10101100	00010000	00001100	00000000	172.16 12.0/22
1ST IP	WCARD				11111111	
LAST IP 10101100 00010000 00001111 11111110 172.16.16.254 IP 10101100 00010000 00010000 00000000 172.16.16.0 MASK 11111111 11111111 11111110 00000000 255.255.254.0 ID 10101100 00010000 00010000 00000000 172.16 16.0/23 WCARD 00000000 00000000 11111111 0.0.1.255 BCAST 10101100 00010000 00010001 11111111 172.16.16.1 1ST IP 10101100 00010000 00010000 000000001 172.16.16.1						
172.16.16.0/23 IP 10101100 00010000 00010000 00000000 172.16.16.0 MASK 11111111 11111111 00000000 255.255.254.0 ID 10101100 00010000 00010000 00000000 172.16 16.0/23 WCARD 00000000 00000000 00000001 11111111 0.0.1.255 BCAST 10101100 00010000 00010001 11111111 172.16.17.255 1ST IP 10101100 00010000 00010000 00000001 172.16.16.1	1ST IP	10101100	00010000			
IP 10101100 00010000 00010000 00000000 172.16.16.0 MASK 11111111 11111111 11111110 00000000 255.255.254.0 ID 10101100 00010000 00010000 00000000 172.16 16.0/23 WCARD 00000000 00000000 00000001 11111111 0.0.1.255 BCAST 10101100 00010000 00010001 11111111 172.16.17.255 1ST IP 10101100 00010000 00010000 00000001 172.16.16.1	LAST IP	10101100	00010000	00001111	11111110	172.16.16.254
IP 10101100 00010000 00010000 00000000 172.16.16.0 MASK 11111111 11111111 11111110 00000000 255.255.254.0 ID 10101100 00010000 00010000 00000000 172.16 16.0/23 WCARD 00000000 00000000 00000001 11111111 0.0.1.255 BCAST 10101100 00010000 00010001 11111111 172.16.17.255 1ST IP 10101100 00010000 00010000 00000001 172.16.16.1						
MASK 11111111 11111111 11111110 00000000 255.255.254.0 ID 10101100 00010000 00010000 00000000 172.16 16.0/23 WCARD 00000000 00000000 00000001 11111111 0.0.1.255 BCAST 10101100 00010000 00010001 11111111 172.16.17.255 1ST IP 10101100 00010000 00010000 000000001 172.16.16.1	172.16.16.0/23					
ID 10101100 00010000 00010000 00000000 172.16 16.0/23 WCARD 00000000 00000000 00000001 11111111 0.0.1.255 BCAST 10101100 00010000 00010001 11111111 172.16.17.255 1ST IP 10101100 00010000 00010000 00000001 172.16.16.16	IP	10101100	00010000	00010000	00000000	172.16.16.0
WCARD 00000000 00000000 00000001 11111111 0.0.1.255 BCAST 10101100 00010000 00010001 11111111 172.16.17.255 1ST IP 10101100 00010000 00010000 00000001 172.16.16.1	MASK	11111111	11111111	11111110	00000000	255.255.254.0
BCAST 1ST IP 10101100 10101100 00010000 00010000 00010001 00010000 11111111 000000001 172.16.17.255 172.16.16.1	ID	10101100	00010000	00010000	00000000	172.16 16.0/23
1ST IP 10101100 00010000 00010000 00000001 172.16.16.1	WCARD	00000000	00000000	0000001	11111111	0.0.1.255
	BCAST					
LAST IP 10101100 00010000 00010001 11111111	1ST IP	10101100	00010000	00010000		
·	LAST IP	10101100	00010000	00010001	11111110	172.16.17.254

	172.16.18.0/23	1				I	
	IP	10101100	00010000	00010010	00000000	172.16.18.0	
	MASK	11111111	11111111	11111110	00000000	255.255.254.0	
	ID	10101100	00010000	00010010	00000000	172.16 18.0/23	
	WCARD	00000000	00000000	00000001	11111111	0.0.1.255	
	BCAST	10101100	00010000	00010010	11111111	172.16.18.255	
	1ST IP	10101100	00010000	00010010	00000001	172.16.18.1	
	LAST IP	10101100	00010000	00010010	11111110	172.16.18.254	
	LAST II	10101100	00010000	00010010	11111110	172.10.10.25+	
	172.16.20.0/24	<u>l</u>					
	IP	10101100	00010000	00010100	00000000	172.16.20.0	
	 MASK	11111111	11111111	11111111	00000000	255.255.255.0	
	ID	10101100	00010000	00010100	00000000	172.16 20.0/24	
	WCARD	00000000	00000000	00000000	11111111	0.0.0.255	
	BCAST	10101100	00010000	00010100	11111111	172.16.20.255	
	1ST IP	10101100	00010000	00010100	00000001	172.16.20.1	
	LAST IP	10101100	00010000	00010100	11111110	172.16.20.254	
		-0-000	000=0000	1 0002020		=7=1=01=01=01	
	172.16.21.0/24	l				I	
	172.10.21.0/24 IP	10101100	00010000	00010101	00000000	172.16.21.0	
	MASK	11111111	11111111	11111111	00000000	255.255.255.0	
	ID	10101100	00010000	00010101	00000000	172.16 21.0/24	
	WCARD	00000000	00000000	00000000	11111111	0.0.0.255	
	BCAST	10101100	00010000	00010101	11111111	172.16.21.255	
	1ST IP	10101100	00010000	00010101	00000001	172.16.21.2	
	LAST IP	10101100	00010000	00010101	11111110	172.16.21.1	
	LAST IF	10101100	00010000	00010101	11111110	172.10.21.254	
	172.16.22.0/24	ı				I	
	172.16.22.0/24 IP	10101100	00010000	00010110	00000000	172.16.22.0	
	MASK	11111111	11111111	11111111	00000000	255.255.255.0	
	ID	10101100	00010000	00010110	00000000	172.16 22.0/24	
	WCARD	00000000	00000000	00000000	11111111	0.0.0.255	
	BCAST	10101100	00010000	00010110	11111111	172.16.22.255	
	1ST IP	10101100	00010000	00010110	00000001	172.16.22.1	
	LAST IP	10101100	00010000	00010110	11111110	172.16.22.254	
,	'	'	1	1	,	'	
	172.16.23.0/25	;					
	IP	10101100	00010000	00010111	00000000	172.16.23.0	
	MASK	11111111	11111111	11111111	10000000	255.255.255.128	
	ID	10101100	00010000	00010111	00000000	172.16 23.0/25	
	WCARD	00000000	00000000	00000000	01111111	0.0.0.127	
	BCAST	10101100	00010000	00010111	01111111	172.16.23.127	
	1ST IP	10101100	00010000	00010111	00000001	172.16.23.1	
	LAST IP	10101100	00010000	00010111	01111110	172.16.23.126	
,			'	'	. '	'	

172.16.23.128/26						
	IP	10101100	00010000	00010111	10000000	172.16.23.128
	MASK	11111111	11111111	11111111	11000000	255.255.255.192
	ID	10101100	00010000	00010111	10000000	172.16.23.128/26
	WCARD	00000000	00000000	00000000	00111111	0.0.0.63
	BCAST	10101100	00010000	00010111	10111111	172.16.23.191
	1ST IP	10101100	00010000	00010111	10000001	172.16.23.129
	LAST IP	10101100	00010000	00001011	10111110	172.16.23.190