Subnetting

El subnetting consiste en dividir una red grande en varias subredes más pequeñas

Redes IPv4 Privadas

Direccionamiento para redes privadas

Clase	**A**	**B**	**C**
Direccionamiento privado	10.0.0.0 a 10.255.255.255	172.16.0.0 a 172.31.255.255	192.168.0.0 a 192.168.255.255

CIDR

CIDR (Classless Inter-Domain Routing)

La notación CIDR es una forma abreviada de especificar la máscara de subred.

CIDR	**Máscara subred**	Máscara Comodín	Total direcciones IP	Total IP utilizables
32	255.255.255.255	0.0.0.0		
31	255.255.255.254	0.0.0.1	2	2 (RFC3021)
30	255.255.255.252	0.0.0.3	4	2
29	255.255.255.248	0.0.0.7	8	6
28	255.255.255.240	0.0.0.15	16	14
27	255.255.255.224	0.0.0.31	32	30
26	255.255.255.192	0.0.0.63	64	62
25	255.255.255.128	0.0.0.127	128	126
24	255.255.255.0	0.0.0.255	256	254
23	255.255.254.0	0.0.1.255	512	510
22	255.255.252.0	0.0.3.255	1,024	1,022
21	255.255.248.0	0.0.7.255	2,048	2,046
20	255.255.240.0	0.0.15.255	4,096	4,094
19	255.255.224.0	0.0.31.255	8,192	8,190
18	255.255.192.0	0.0.63.255	16,384	16,382
17	255.255.128.0	0.0.127.255	32,768	32,766
16	255.255.0.0	0.0.255.255	65,536	65,534
15	255.254.0.0	0.1.255.255	131,072	131,070
14	255.252.0.0	0.3.255.255	262,144	262,142
13	255.248.0.0	0.7.255.255	524,288	524,286
12	255.240.0.0	0.15.255.255	1,048,576	1,048,574
11	255.224.0.0	0.31.255.255	2,097,152	2,097,150
10	255.192.0.0	0.63.255.255	4,194,304	4,194,302
9	255.128.0.0	0.127.255.255	8,388,608	8,388,606
8	255.0.0.0	0.255.255.255	16,777,216	16,777,214
7	254.0.0.0	1.255.255.255	33,554,432	33,554,430

6	252.0.0.0	3.255.255.255	67,108,864	67,108,862
5	248.0.0.0	7.255.255.255	134,217,728	134,217,726
4	240.0.0.0	15.255.255.255	268,435,456	268,435,454
3	224.0.0.0	31.255.255.255	536,870,912	536,870,910
2	192.0.0.0	63.255.255.255	1,073,741,824	1,073,741,822
1	128.0.0.0	127.255.255.255	2,147,483,648	2,147,483,646
0	0.0.0.0	255.255.255.255	4,294,967,296	4,294,967,294

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