

SUBNETTING CHEAT-SHEET

Tail-end octet:	0	CIDR #:	0	8	16	24
Magic #:	0	Binary:	00000000.00000000.00000000.00000000	11111111.00000000.00000000.00000000	11111111.11111111.00000000.00000000	11111111.11111111.11111111.00000000
		Hosts:	4,294,967,294	16,777,214	65,534	254
		Networks:	1	256	65,536	16,777,216
Tail-end octet:	128	CIDR #:	1	9	17	25
Magic #:	128	Binary:	10000000.00000000.00000000.00000000	11111111.10000000.00000000.00000000	11111111.11111111.10000000.00000000	11111111.11111111.11111111.10000000
		Hosts:	2,147,483,646	8,388,606	32,766	126
		Networks:	2	512	131,072	33,554,432
Tail-end octet:	192	CIDR #:	2	10	18	26
Magic #:	64	Binary:	11000000.00000000.00000000.00000000	11111111.11000000.00000000.00000000	11111111.11111111.11000000.00000000	11111111.11111111.11111111.11000000
		Hosts:	1,073,741,822	4,194,302	16,382	62
		Networks:	4	1,024	262,144	67,108,864
Tail-end octet:	224	CIDR #:	3	11	19	27
Magic #:	32	Binary:	11100000.00000000.00000000.00000000	11111111.11100000.00000000.00000000	11111111.11111111.11100000.00000000	11111111.11111111.11111111.11100000
		Hosts:	536,870,910	2,097,150	8,190	30
		Networks:	8	2,048	524,288	134,217,728
Tail-end octet:	240	CIDR #:	4	12	20	28
Magic #:	16	Binary:	11110000.00000000.00000000.00000000	11111111.11110000.00000000.00000000	11111111.11111111.11110000.00000000	11111111.11111111.11111111.11110000
		Hosts:	268,435,454	1,048,574	4,094	14
		Networks:	16	4,096	1,048,576	268,435,456
Tail-end octet:	248	CIDR #:	5	13	21	29
Magic #:	8	Binary:	11111000.00000000.00000000.00000000	11111111.11111000.00000000.00000000	11111111.11111111.11111000.00000000	11111111.11111111.11111111.11111000
		Hosts:	134,217,726	524,286	2,046	6
		Networks:	32	8,192	2,097,152	536,870,912
Tail-end octet:	252	CIDR #:	6	14	22	30
Magic #:	4	Binary:	11111100.00000000.00000000.00000000	11111111.11111100.00000000.00000000	11111111.11111111.11111100.00000000	11111111.11111111.11111111.11111100
		Hosts:	67,108,862	262,142	1,022	2
		Networks:	64	16,384	4,194,304	1,073,741,824
Tail-end octet:	254	CIDR #:	7	15	23	31
Magic #:	2	Binary:	11111110.00000000.00000000.00000000	11111111.11111110.00000000.00000000	11111111.11111111.11111110.00000000	11111111.11111111.11111111.11111110
		Hosts:	33,554,430	131,070	510	-
		Networks:	128	32,768	8,388,608	1,073,741,824
Tail-end octet:	255	CIDR #:	8	16	24	32
Magic #:	1	Binary:	11111111.00000000.00000000.00000000	11111111.11111111.00000000.00000000	11111111.11111111.11111111.00000000	11111111.11111111.11111111.11111111
		Hosts:	16,777,214	65,534	254	-
		Networks:	256	65,536	16,777,216	4,294,967,296