

Subnet Mask	CIDR Prefix	Total IP Addresses	Usable IP Addresses	Number of /24 networks
0.0.0.0	/0	4,294,967,296	4,294,967,294	33,554,432
128.0.0.0	/1	2,147,483,648	2,147,483,646	16,777,216
192.0.0.0	/2	1,073,741,824	1,073,741,822	8,388,608
224.0.0.0	/3	536,870,912	536,870,910	4,194,304
240.0.0.0	/4	268,435,456	268,435,454	2,097,152
248.0.0.0	/5	134,217,728	134,217,726	1,048,576
252.0.0.0	/6	67,108,864	67,108,862	262,144
254.0.0.0	/7	33,554,432	33,554,430	131,072
255.0.0.0	/8	16,777,216	16,777,214	65,536
255.128.0.0	/9	8,388,608	8,388,606	32,768
255.192.0.0	/10	4,194,304	4,194,302	16,384
255.224.0.0	/11	2,097,152	2,097,150	8192
255.240.0.0	/12	1,048,576	1,048,574	4096
255.248.0.0	/13	524,288	524,286	2048
255.252.0.0	/14	262,144	262,142	1024
255.254.0.0	/15	131,072	131,070	512
255.255.0.0	/16	65,536	65,534	256
255.255.128.0	/17	32,768	32,766	128
255.255.192.0	/18	16,384	16,382	64
255.255.224.0	/19	8192	8190	32
255.255.240.0	/20	4096	4094	16
255.255.248.0	/21	2048	2046	8
255.255.252.0	/22	1024	1022	4
255.255.254.0	/23	512	510	2
255.255.255.0	/24	256	254	1
255.255.255.128	/25	128	126	1 half
255.255.255.192	/26	64	62	1/4th
255.255.255.224	/27	32	30	1/8th
255.255.255.240	/28	16	14	1/16th
255.255.255.248	/29	8	6	1/32nd
255.255.255.252	/30	4	2	1/64th
255.255.255.254	/31	2	2*	1/128th
255.255.255.255	/32	1	1	1/256th