

IPv4 Subnetting & CIDR Notation Cheat Sheet

Reference guide for IPv4 prefixes, subnet masks, wildcard masks, and usable host capacities.

Live Interactive Calculator: <https://lotsofnetwork.com/subnet-calculator>

CIDR	Subnet Mask	Wildcard Mask	Total IPs	Usable Hosts	Designation
/8	255.0.0.0	0.255.255.255	16,777,216	16,777,214	Class A
/9	255.128.0.0	0.127.255.255	8,388,608	8,388,606	Subnet
/10	255.192.0.0	0.63.255.255	4,194,304	4,194,302	Subnet
/11	255.224.0.0	0.31.255.255	2,097,152	2,097,150	Subnet
/12	255.240.0.0	0.15.255.255	1,048,576	1,048,574	RFC 1918 Private
/13	255.248.0.0	0.7.255.255	524,288	524,286	Subnet
/14	255.252.0.0	0.3.255.255	262,144	262,142	Subnet
/15	255.254.0.0	0.1.255.255	131,072	131,070	Subnet
/16	255.255.0.0	0.0.255.255	65,536	65,534	Class B / RFC 1918
/17	255.255.128.0	0.0.127.255	32,768	32,766	Subnet
/18	255.255.192.0	0.0.63.255	16,384	16,382	Subnet
/19	255.255.224.0	0.0.31.255	8,192	8,190	Subnet
/20	255.255.240.0	0.0.15.255	4,096	4,094	Subnet
/21	255.255.248.0	0.0.7.255	2,048	2,046	Subnet
/22	255.255.252.0	0.0.3.255	1,024	1,022	Subnet
/23	255.255.254.0	0.0.1.255	512	510	Subnet
/24	255.255.255.0	0.0.0.255	256	254	Class C / Standard LAN
/25	255.255.255.128	0.0.0.127	128	126	Half /24 Subnet
/26	255.255.255.192	0.0.0.63	64	62	Subnet (62 Hosts)
/27	255.255.255.224	0.0.0.31	32	30	Subnet (30 Hosts)
/28	255.255.255.240	0.0.0.15	16	14	Small VLAN (14 Hosts)
/29	255.255.255.248	0.0.0.7	8	6	Public WAN IP Block
/30	255.255.255.252	0.0.0.3	4	2	Point-to-Point Link
/31	255.255.255.254	0.0.0.1	2	2 (RFC 3021)	Point-to-Point (RFC 3021)
/32	255.255.255.255	0.0.0.0	1	1 Host	Single Host / Loopback