

CIDR Conversion Table

-	Dotted Decimal Netmask	Hexidecimal Netmask	Inverse Netmask			Bir	nary				Number of Classfull Networks	Number of Usable IPs
/1	128.0.0.0	80 00 00 00	127.255.255.255	1000 0	000 0000	0000	0000	0000	0000	0000	120 70	2 147 492 646
/2	192.0.0.0	C0 00 00 00	63.255.255.255		000 0000							2,147,483,646 1,073,741,822
/3	224.0.0.0	E0 00 00 00	31.255.255.255		000 0000						32 As	1,073,741,622
/4	240.0.0.0	F0 00 00 00	15.255.255.255		000 0000						16 As	260 425 454
/5	248.0.0.0	F8 00 00 00	7.255.255.255		000 0000						8 As	268,435,454
/6	252.0.0.0	FC 00 00 00	3.255.255.255		100 0000						4 As	67,108,862
	254.0.0.0	FE 00 00 00	1.255.255.255		110 0000						2 As	33,554,430
/8	255.0.0.0	FF 00 00 00	0.255.255.255	1111 1.	111 0000	0000	0000	0000	0000	0000	1 A or 256 Bs	16,777,214
/9	255.128.0.0	FF 80 00 00	0.127.255.255	1111 1	111 1000	0000	0000	0000	0000	0000	128 Bs	8,388,606
/10	255.192.0.0	FF CO 00 00	0.63.255.255		111 1100						64 Bs	4,194,302
/11	255.224.0.0	FF E0 00 00	0.31.255.255		111 1110						32 Bs	2,097,150
/12	255.240.0.0	FF FO 00 00	0.15.255.255		111 1111						16 Bs	1,048,574
/13	255.248.0.0	FF F8 00 00	0.7.255.255		111 1111						8 Bs	
/14	255.252.0.0	FF FC 00 00	0.3.255.255		111 1111						4 Bs	262,142
/15	255.254.0.0	FF FE 00 00	0.1.255.255		111 1111						2 Bs	131,070
/16	255.255.0.0	FF FF 00 00	0.0.255.255								1 B or 256 Cs	
	233.233.0.0	11 11 00 00	0.0.233.233	1111 1	111 1111	1111	0000	0000	0000	0000	1 0 01 230 03	03,334
/17	255.255.128.0	FF FF 80 00	0.0.127.255	1111 1	111 1111	1111	1000	0000	0000	0000	128 Cs	32,766
/18	255.255.192.0	FF FF CO OO	0.0.63.255	1111 1	111 1111	1111	1100	0000	0000	0000	64 Cs	16,382
/19	255.255.224.0	FF FF E0 00	0.0.31.255	1111 1	111 1111	1111	1110	0000	0000	0000	32 Cs	8,190
/20	255.255.240.0	FF FF F0 00	0.0.15.255	1111 1	111 1111	1111	1111	0000	0000	0000	16 Cs	4,094
/21	255.255.248.0	FF FF F8 00	0.0.7.255	1111 1	111 1111	1111	1111	1000	0000	0000	8 Cs	2,046
/22	255.255.252.0	FF FF FC 00	0.0.3.255		111 1111						4 Cs	
/23	255.255.254.0		0.0.1.255		111 1111						2 Cs	
/24	255.255.255.0		0.0.0.255		111 1111						1 C	
721	233.233.233.0	11 11 11 00	0.0.0.233	1111 1	111 1111	1111	1111	1111	0000	0000	1 0	234
/25	255.255.255.128	FF FF FF 80	0.0.0.127	1111 1	111 1111	1111	1111	1111	1000	0000	1/2 C	126
/26	255.255.255.192		0.0.0.63		111 1111						1/4 C	62
/27	255.255.255.224		0.0.0.31		111 1111						1/8 C	30
/28	255.255.255.240		0.0.0.15		111 1111						1/16 C	14
/29	255.255.255.248		0.0.0.7		111 1111						1/32 C	6
/30	255.255.255.252		0.0.0.3		111 1111						1/64 C	2
/31	255.255.255.254		0.0.0.1		111 1111							0
/32	255.255.255.255		0.0.0.0									1
	200.200.200.200	IL EE EE EE		I	111 1111	1111	1111	1111	T T T T	1111	1/230 C	1

Class	Start	End	Number of IPs	Comment						
A	10.0.0.0	10.255.255.255	16,777,216	A single Class A network number						
В	172.16.0.0	172.31.255.255	1,048,544	16 contiguous Class B network numbers						
С	192.168.0.0	192.168.255.255	65,534	256 contiguous Class C network numbers						