

Prefix	IP Addresses	Subnet Mask	Bits
/32	1	255.255.255.255	0
/31	2	255.255.255.254	1
/30	4	255.255.255.252	2
/29	8	255.255.255.248	3
/28	16	255.255.255.240	4
/27	32	255.255.255.224	5
/26	64	255.255.255.192	6
/25	128	255.255.255.128	7
/24	256	255.255.255.0	8
/23	512	255.255.254.0	9
/22	1,024	255.255.252.0	10
/21	2,048	255.255.248.0	11
/20	4,096	255.255.240.0	12
/19	8,192	255.255.224.0	13
/18	16,384	255.255.192.0	14
/17	32,768	255.255.128.0	15
/16	65,536	255.255.0.0	16
/15	131,072	255.254.0.0	17
/14	262,144	255.252.0.0	18
/13	524,288	255.248.0.0	19
/12	1,048,576	255.240.0.0	20
/11	2,097,152	255.224.0.0	21
/10	4,194,304	255.192.0.0	22
/9	8,388,608	255.128.0.0	23
/8	16,777,216	255.0.0.0	24
/7	33,554,432	254.0.0.0	25
/6	67,108,864	252.0.0.0	26
/5	134,217,728	248.0.0.0	27
/4	268,435,456	240.0.0.0	28
/3	536,870,912	224.0.0.0	29
/2	1,073,741,824	192.0.0.0	30
/1	2,147,483,648	128.0.0.0	31
/0	4,294,967,296	0.0.0.0	32

	Prefix	/48s	/56s	/64s	Bits
T = 1,099,511,627, 776	/24	16M	4G	1T	104
	/25	8M	2G	512G	103
	/26	4M	1G	256G	102
	/27	2M	512M	128G	101
	/28	1M	256M	64G	100
	/29	512K	128M	32G	99
	/30	256K	64M	16G	98
	/31	128K	32M	8G	97
G = 1,073,741,824	/32	64K	16M	4G	96
	/33	32K	8M	2G	95
	/34	16K	4M	1G	94
	/35	8K	2M	512M	93
	/36	4K	1M	256M	92
	/37	2K	512K	128M	91
	/38	1K	256K	64M	90
	/39	512	128K	32M	89
M = 1,048,576	/40	256	64K	16M	88
	/41	128	32K	8M	87
	/42	64	16K	4M	86
	/43	32	8K	2M	85
	/44	16	4K	1M	84
	/45	8	2K	512K	83
	/46	4	1K	256K	82
	/47	2	512	128K	81
K = 1,024	/48	1	256	64K	80
	/49		128	32K	79
	/50		64	16K	78
	/51		32	8K	77
	/52		16	4K	76
	/53		8	2K	75
	/54		4	1K	74
	/55		2	512	73
/56		1	256	72	
/57			128	71	
/58			64	70	
/59			32	69	
/60			16	68	
/61			8	67	
/62			4	66	
/63			2	65	
/64			1	64	