

Subnetting

Anzahl Netze	Anzahl Adressen	Anzahl Host	Subnetmaske	Binär	CIDR
1	16777216	16777214	255.0.0.0	00000000. 00000000. 00000000	x.x.x.x/8
2	8388608	8388606	255.128.0.0	10000000. 00000000. 00000000	x.x.x.x/9
4	4194304	4194302	255.192.0.0	11000000. 00000000. 00000000	x.x.x.x/10
8	2097159	2097157	255.224.0.0	11100000. 00000000. 00000000	x.x.x.x/11
16	1048576	1048574	255.240.0.0	11110000. 00000000. 00000000	x.x.x.x/12
32	524288	524286	255.248.0.0	11111000. 00000000. 00000000	x.x.x.x/13
64	262144	262142	255.252.0.0	11111100. 00000000. 00000000	x.x.x.x/14
128	32768	32766	255.254.0.0	11111110. 00000000. 00000000	x.x.x.x/15
256	65536	65534	255.255.0.0	11111111. 00000000. 00000000	x.x.x.x/16
512	32768	32766	255.255.128.0	11111111. 10000000. 00000000	x.x.x.x/17
1024	16384	16382	255.255.192.0	11111111. 11000000. 00000000	x.x.x.x/18
2048	8192	8190	255.255.224.0	11111111. 11100000. 00000000	x.x.x.x/19
4096	4096	4094	255.255.240.0	11111111. 11110000. 00000000	x.x.x.x/20
8192	2048	2046	255.255.248.0	11111111. 11111000. 00000000	x.x.x.x/21
16384	1024	1022	255.255.252.0	11111111. 11111100. 00000000	x.x.x.x/22
32768	512	510	255.255.254.0	11111111. 11111110. 00000000	x.x.x.x/23
65536	256	254	255.255.255.0	11111111. 11111111. 00000000	x.x.x.x/24
131072	128	126	255.255.255.128	11111111. 11111111. 10000000	x.x.x.x/25
262144	64	62	255.255.255.192	11111111. 11111111. 11000000	x.x.x.x/26
524288	32	30	255.255.255.224	11111111. 11111111. 11100000	x.x.x.x/27
1048576	16	14	255.255.255.240	11111111. 11111111. 11110000	x.x.x.x/28
2097159	8	6	255.255.255.248	11111111. 11111111. 11111000	x.x.x.x/29
4194304	4	2	255.255.255.252	11111111. 11111111. 11111100	x.x.x.x/30
8388608	2	0	255.255.255.254	11111111. 11111111. 11111110	x.x.x.x/31
16777216	1	0	255.255.255.255	11111111. 11111111. 11111111	x.x.x.x/32

Mögliche Range für 8er Netze

- 0-7
- 8-15
- 16-23
- 24-31
- 32-39
- 40-47
- 48-55
- 56-63
- 64-71
- 72-79
- 80-87
- 88-95
- 96-103
- 104-111
- 112-119
- 120-127
- 128-135
- 136-143
- 144-151
- 152-159
- 160-167
- 168-175
- 176-183
- 184-191
- 192-199
- 200-207
- 208-215
- 216-223
- 224-231
- 232-239
- 240-247
- 248-255

Umrechnung			
Dez	Bin	Dez	Bin
1	1	130	10000010
2	10	140	10001100
3	11	150	10010110
4	100	160	10100000
5	101	170	10101010
6	110	180	10110100
7	111	190	10111110
8	1000	200	11001000
9	1001	210	11010010
10	1010	220	11011100
20	10100	230	11100110
30	11110	240	11110000
40	101000	250	11111010
50	110010	255	11111111
60	111100	192	11000000
70	1000110	172	10101100
80	1010000	168	10101000
90	1011010	127	11111111
100	1100100	64	10000000
110	1101110	31	11111
120	1111000	16	10000

Private Netze

- A 10.0.0.0 - 10.255.255.255
- 127 Localhost
- B 172.16.0.0 - 172.31.255.255
- C 192.168.0.0 - 192.168.255.255

