Private adressen 10.0.0.1 - 10.255.255.254

172.16.0.1 - 172.31.255.254

192.168.0.1 - 192.168.255.254

Shared address space 100.64.0.1 - 100.127.255.254

Loopback 127.0.0.1 - 127.255.255.254

Link local 169.254.0.1 - 169.254.255.254

Experimental 240.0.0.1 - 255.255.255.254

Test-net 192.0.2.0 - 192.0.2.255

Klasse eerste bit(s) eerst byte

A 0 0 – 127

B 10 127 – 191

C 110 192 – 223

D 1110 224 – 239

E 1111 240 – 255

Subnetmaskers mogelijke Byte waarden:

1111 1111 255

1111 1110 254

1111 1100 252

1111 1000 248

1111 0000 240

1110 0000 224

1100 0000 192

1000 0000 128

0000 0000 0

Beschikbare hosts berekenen

/8 256\*256\*256 – 2 of 2(32-8) – 2 = 16.777.214

/9 256\*256\*128 – 2 of 2(32-9) – 2 = 8.388.606

/10 256\*256\*64 – 2 of 2(32-10) – 2 = 4.194.302

…

/15 256\*256\*2 – 2 of 2(32-15) – 2 = 131.070

/16 256\*256 – 2 of 2(32-16) – 2 = 65.534

…

/30 4 – 2 of 2(32-30) – 2 = 2

Kleinte mogelijke CIDR 10.X.X.X =>/8

172.16.X.X – 172.31.X.X =>/12

192.168.X.X =>/16

Grootst mogelijke CIDR =>/30

|  |  |  |
| --- | --- | --- |
| 2 | 2 | 4 |
| 2 | 3 | 8 |
| 2 | 4 | 16 |
| 2 | 5 | 32 |
| 2 | 6 | 64 |
| 2 | 7 | 128 |
| 2 | 8 | 256 |
| 2 | 9 | 512 |
| 2 | 10 | 1024 |
| 2 | 11 | 2048 |
| 2 | 12 | 4096 |
| 2 | 13 | 8192 |
| 2 | 14 | 16384 |
| 2 | 15 | 32768 |
| 2 | 16 | 65536 |
| 2 | 17 | 131072 |
| 2 | 18 | 262144 |
| 2 | 19 | 524288 |
| 2 | 20 | 1048576 |
| 2 | 21 | 2097152 |
| 2 | 22 | 4194304 |
| 2 | 23 | 8388608 |
| 2 | 24 | 16777216 |