



Classless Inter-Domain Routing

IP/CIDR	Mask	Hosts (*)	Class
0.0.0.0/0	000.000.000.000	4,294,967,296	256 A
a.0.0.0/1	128.000.000.000	2,147,483,648	128 A
a.0.0.0/2	192.000.000.000	1,073,741,824	64 A
a.0.0.0/3	224.000.000.000	536,870,912	32 A
.0.0.0/4	240.000.000.000	268,435,456	16 A
a.0.0.0/5	248.000.000.000	134,217,728	8A
a.0.0.0/6	252.000.000.000	67,108,864	4A
a.0.0.0/7	254.000.000.000	33,554,432	2A
a.0.0.0/8	255.000.000.000	16,777,216	256 B = 1 A
a.b.0.0/9	255.128.000.000	8,388,608	128 B
a.b.0.0/10	255.192.000.000	4,194,304	64 B
a.b.0.0/11	255.224.000.000	2,097,152	32 B
a.b.0.0/12	255.240.000.000	1,048,576	16 B
a.b.0.0/13	255.248.000.000	524,288	8 B
a.b.0.0/14	255.252.000.000	262,144	4 B
a.b.0.0/15	255.254.000.000	131,072	2 B
a.b.0.0/16	255.255.000.000	65,536	256 C = 1 B
a.b.c.0/17	255.255.128.000	32,768	128 C
a.b.c.0/18	255.255.192.000	16,384	64 C
a.b.c.0/19	255.255.224.000	8,192	32 C
a.b.c.0/20	255.255.240.000	4,096	16 C
a.b.c.0/21	255.255.248.000	2,048	8 C
a.b.c.0/22	255.255.252.000	1,024	4 C
a.b.c.0/23	255.255.254.000	512	2 C
a.b.c.0/24	255.255.255.000	256	1 C
a.b.c.d/25	255.255.255.128	128	1/2 C
a.b.c.d/26	255.255.255.192	64	1/4 C
a.b.c.d/27	255.255.255.224	32	1/8 C
a.b.c.d/28	255.255.255.240	16	1/16 C
a.b.c.d/29	255.255.255.248	8	1/32 C
a.b.c.d/30	255.255.255.252	4	1/64 C
a.b.c.d/31	255.255.255.254	2	1/128 C
a.b.c.d/32	255.255.255.255	1	1/256 C





Private IP Addresses				
IP Address Range	Number of Addresses	Description	CIDR Notation	Subnet Mask
10.0.0.0 - 10.255.255.255	16,777,216	Entire Class A	10.0.0.0/8	255.0.0.0
172.16.0.0 - 172.31.255.255	1,048,576	16 Contiguous Class Bs	172.16.0.0/12	255.240.0.0
192.168.0.0 - 192.168.255.255	65,536	256 Contiguous Class Cs	192.168.0.0/16	255.255.0.0

16 bit Autonomous Numbers (ASNs)		
Address Range	Number of Addresses	Notes
0 - 65535	65536	16 Bit ASN Range
0	1	Reserved by IANA
23456	1	Bridge Between 16 Bit & 32 Bit ASNs
64512 - 65534		Reserved for Private Use
65535	1	Reserved by IANA
32 bit Autonomous Numbers (ASNs)		
0.0 - 65535.65535	4,294,967,295	32 Bit ASN Range
2.0 - 2.1023	1024	APNIC
3.0 - 3.1023	1024	RIPR NCC
4.0 - 4.1023	1024	LACNIC
5.0 - 5.1023	1024	AfrNIC
6.0 - 6.1023	1024	ARIN
All other ASNs are Reserved		

