Les adresse IP

IP Address

=> IP Address from 0.0.0.0 to 255.255.255.255 are classified into 5 classes based on first octet value

Class A	0 - 127
Class B	128 - 191
Class C	192 - 223
Class D	224 - 239
Class E	240 - 255

Private IP Address

Class A - 10.0.0.0 to 10.255.255.255

Class B - 172.16.0.0 to 172.31.255.255

Class C - 192.168.0.0 to 192.168.255.255

0.0.0.0 Network is reserved for default routing.

127.0.0.0 Network is reserved for loop back.

Class D Network are reserved for multicasting.

Class E Network are reserved for Research and Development

IPv4 Addresses and IPv4 Subnetting

by Gokhan Kosem, www.ipcisco.com

CIDR	SUBNET MASK	ADDRESSES	WILDCARD MASK
/32	255.255.255. 255	1	0.0.0.0
/31	255.255.255. 254	2	0.0.0.1
/30	255.255.255. 252	4	0.0.0.3
/29	255.255.255. 248	8	0.0.0.7
/28	255.255.255. 240	16	0.0.0.15
/27	255.255.255. 224	32	0.0.0.31
/26	255.255.255. 192	64	0.0.0.63
/25	255.255.255. 128	128	0.0.0.127
/24	255.255.255.0	256	0.0.0.255
/23	255.255.254.0	512	0.0.1.255
/22	255.255.252.0	1024	0.0.3.255
/21	255.255.248.0	2048	0.0.7.255
/20	255.255.240.0	4096	0.0.15.255
/19	255.255.224.0	8192	0.0.31.255
/18	255.255.192.0	16384	0.0.63.255
/17	255.255.128.0	32768	0.0.127.255
/16	255.255.0.0	65536	0.0.255.255
/15	255.254.0.0	131072	0.1.255.255
/14	255.252.0.0	262144	0.3.255.255
/13	255.248.0.0	524288	0.7.255.255
/12	255.240.0.0	1048576	0.15.255.255
/11	255.224.0.0	2097152	0.31.255.255
/10	255.192.0.0	4194304	0.63.255.255
/9	255.128.0.0	8388608	0.127.255.255
/8	255.0.0.0	16777216	0.255.255.255
/7	254.0.0.0	33554432	1 .255.255.255
/6	252.0.0.0	67108864	3 .255.255.255
/5	248.0.0.0	134217728	7 .255.255.255
/4	240.0.0.0	268435456	15. 255.255.255
/3	224.0.0.0	536870912	31. 255.255.255
/2	192.0.0.0	1073741824	63. 255.255.255
/1	128.0.0.0	2147483648	127. 255.255.255
/0	0.0.0.0	4294967296	255. 255.255.255

Classful IPv4 Addresses	
Class A	0.0.0.0 - 127.255.255.255
Class B	128.0.0.0 - 191.255.255.255
Class C	192.0.0.0 - 223.255.255.255
Class D	224.0.0.0 - 239.255.255.255
Class E	240.0.0.0 - 255.255.255.255
Private IPv4 Addresses	
10.0.0.0 - 10.255.255.255	
172.16.0.0 - 172.31.255.255	
192.168.0.0 - 192.168.255.255	
Special IPv4 Addresses	
Local Host	127.0.0.0 - 127.255.255.255
APIPA	169.254.0.0 - 169.254.255.255
Bogon IPv4 Addresses	
0.0.0.0/8	This network
10.0.0.0/8	Private IPv4 Address Block
100.64.0.0/10	Carrier-grade NAT
127.0.0.0/8	Loopback
127.0.53.53	Name collision occurrence
169.254.0.0/16	Link local
172.16.0.0/12	Private IPv4 Address Block
192.0.0.0/24	IETF protocol assignments
192.0.2.0/24	TEST-NET-1
192.168.0.0/16	Private IPv4 Address Block
198.18.0.0/15	Network benchmark testing
198.51.100.0/24	TEST-NET-2
203.0.113.0/24	TEST-NET-3
224.0.0.0/4	Multicast
240.0.0.0/4	Reserved
255.255.255.255/32	Limited broadcast
www.ipcisco.com	

	Private address range	
Class	start address	finish address
A	10.0.0.0	10.255.255.255
B	172.16.0.0	172.31.255.255
C	192.168.0.0	192.168.255.255

	Public address range	
Class	start address	finish address
A	0.0.0.0	126.255.255.255
B	128.0.0.0	191.255.255.255
C	192.0.0.0	223.255.255.255
D	224.0.0.0	239.255.255.255
E	240.0.0.0	254.255.255.255

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