IPv4 Cheat sheet

Class	Address range	Supports
Class A	1.0.0.1 to 126.255.255.254	Supports 16 million hosts on each of 127 networks.
Class B	128.1.0.1 to 191.255.255.254	Supports 65,000 hosts on each of 16,000 networks.
Class C	192.0.1.1 to 223.255.254.254	Supports 254 hosts on each of 2 million networks.
Class D	224.0.0.0 to 239.255.255.255	Reserved for multicast groups.
Class E	240.0.0.0 to 254.255.255.254	Reserved for future use, or research and development purposes.

IPv4 Addressing Format

*Note: IPv4 uses 32 bits address

The address is written as: 0.0.0.0

An IPv4 address is composed of four sets of 8 bits (octets)

Address Types

Unicast - A unicast address enables a device to send a datagram to a single recipient.

Multicast - A multicast address enables a device to send a datagram to a specified set of hosts, known as a multicast group, in different subnetworks.

Broadcast - A broadcast address enables a device to send a datagram to all hosts on a subnetwork.

Reserved Private IP Ranges (RFC 1918)

10.0.0.0 – 10.255.255.255 (10/8 prefix)

172.16.0.0 – 172.31.255.255 (172.16/12 prefix)

192.168.0. – 192.168.255.255 (192.168/16 prefix)