



Key Attributes



Current Standard: RFC791 (Sep 1981)

Address space: 32-bit

Total no. of addresses: $2^{32} = 4294967296 = 4.3 \text{ Billion}$

Notation: Dotted Decimal

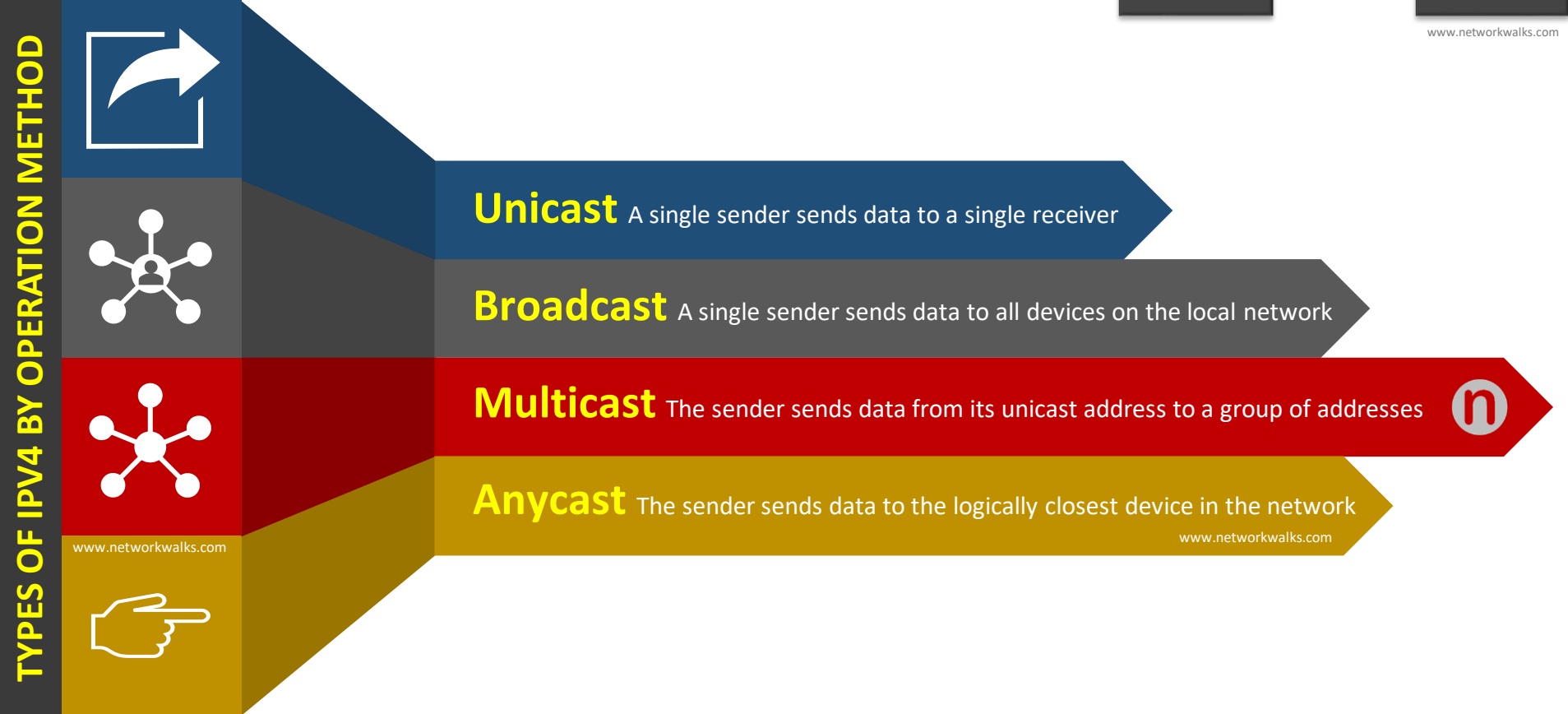
Official/full name: Internet Protocol version 4

Types of IPv4 Addresses by Assignment Method

1 Dynamic IP addresses

2 Dynamic IP addresses

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Types of IPv4 Addresses by IP Versions

Class	Address Range	Network /Host Part	Default Subnet Mask	Detail
Class A	1.0.0.1 – 126.255.255.254	N.H.H.H	255.0.0.0	Hosts = $(2^{24} - 2) = 16,777,214 = (16M)$ Networks = $(2^7 - 2) = 126$ 127.0.0.0 - 127.255.255.255 reserved
Class B	128.1.0.1 – 191.255.255.254	N.N.H.H	255.255.0.0	Hosts = $(2^{16} - 2) = 65,534$ Networks = $(2^{14} - 2) = 16,382$
Class C	192.0.1.1 – 223.255.254.254	N.N.N.H	255.255.255.0	Hosts = $(2^8 - 2) = 254$ Networks = $(2^{21} - 2) = 2,097,150 (2M)$
Class D	224.0.0.0 – 239.255.255.255			Reserved for multicast groups
Class E	240.0.0.0 – 254.255.255.254		www.networkwalks.com	Reserved for future use & R&D

Types of IPv4 Addresses by IP Versions

IPv4	32-bit address space & gives us 4.3Billion addresses
IPv6	128-bit address space & gives us 340 undecillion addresses

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