

28 IPv6 Addresses

How many hex digits in an IPv6 address	32
How many groups of 4 hex digits	8
How many bits in an IPv6 address	128
How many bits in an IPv4 address	32

Abbreviation

2001:0DB8:0000:0000:0000:0000:0000:0001	2001:DB8::1
2001:0DB8:0003:0000:0000:0058:0000:0234	2001:DB8:3::58:0:234
FDDED:87AC:02FE:7829:0000:0000:0000:0012	FDDED:87AC:2FE:7829::12
2001:0DB8:0E00:0000:0000:0000:0100:0008	2001:DB8:E00::100:8
FF02:0000:0000:0000:0000:0000:0000:0005	FF02::5
FE80:0000:0000:0000:0000:0000:1234:5678	FE80::1234:5678
FE80:0028:0012:0000:0000:0000:0000:00AF	FE80:28:12::AF
FDAC:08F3:0000:0000:0000:0000:0000:0001	FDAC:8F3::1
2001:0DB8:0000:0001:0000:0000:0000:0002	2001:DB8:0:1::2

Address & Length

Prefix

FDDED:87AC:2FE:7829:0000:0000:0000:0012/64	FDDED:87AC:2FE:7829::/64
2001:0DB8:0000:0000:0000:0000:0000:0001/64	2001:DB8::/64
2001:0DB8:0003:0000:0000:0058:0000:0234/64	2001:DB8:3::/64
2001:DB8:E00::100:8/48	2001:0DB8:0E00::/48
FDAC:8F3::1/54	FDAC:8F3::/54
2001:DB8:0:4::2/62	2001:DB8:0:4::/62
FE80:28:12::AF/10	FE80::/10
FE80:28:12::AF/46	FE80:28:10::/46
2001:DB8:E00::100:8/40	2001:DB8:E00::/40

IPv4 Routing Protocol

IPv6 Routing Protocol

EIGRP	EIGRPv6
OSPF	OSPFv3
RIP	RIPng
BGP	MP BGP-4