

Subnet Range Cheat Sheet

	Prefix Length									Prefix Length									Prefix Length									Prefix Length							
1st Octet	1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8		1	2	3	4	5	6	7	8
2nd Octet	9	10	11	12	13	14	15	16		9	10	11	12	13	14	15	16		9	10	11	12	13	14	15	16		9	10	11	12	13	14	15	16
3rd Octet	17	18	19	20	21	22	23	24		17	18	19	20	21	22	23	24		17	18	19	20	21	22	23	24		17	18	19	20	21	22	23	24
4th Octet	25	26	27	28	29	30	31	32		25	26	27	28	29	30	31	32		25	26	27	28	29	30	31	32		25	26	27	28	29	30	31	32
	Mask Notation									Mask Notation									Mask Notation									Mask Notation							
	128	192	224	240	248	252	254	255		128	192	224	240	248	252	254	255		128	192	224	240	248	252	254	255		128	192	224	240	248	252	254	255
	80	C0	E0	F0	F8	FC	FE	FF		80	C0	E0	F0	F8	FC	FE	FF		80	C0	E0	F0	F8	FC	FE	FF		80	C0	E0	F0	F8	FC	FE	FF
Net/Host #									Net/Host #									Net/Host #									Net/Host #								
0									64									128									192								
1									65									129									193								
2									66									130									194								
3									67									131									195								
4									68									132									196								
5									69									133									197								
6									70									134									198								
7									71									135									199								
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35									99									163									227								
36									100									164									228								
37									101									165									229								
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57									121									185									249								
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59									123									187									251								
60									124									188									252								
61									125									189									253								
62									126									190									254								
63									127									191									255								

Notes: The four column groupings represent host or network numbers from 0 through 255. Read top to bottom, left to right, like a newspaper. Prefix length and equivalent decimal and hexadecimal notation is given at the top of each column. Example: /8, /16, /24 and /32 are equivalent to 255 or FF in the appropriate octet. In a given column, if the shading in one row is the same as the shading in the next row, then the two addresses are part of the same subnet.

Special-Use IPv4 Addresses (RFC3330)

- 0.0.0.0/8 "This" network (RFC1122)
- 10.0.0.0/8 Private-Use network (RFC1918)
- 127.0.0.0/8 Loopback (RFC1122)
- 169.254.0.0/16 Link Local (RFC3927)
- 172.16.0.0/12 Private-Use network (RFC1918)
- 192.0.0.0/24 Reserved for IETF protocol assignments (RFC5736)
- 192.0.2.0/24 "TEST-NET" documentation & examples (RFC5737)
- 192.88.99.0/24 6to4 Relay Anycast (RFC3068)
- 192.168.0.0/16 Private-Use network (RFC1918)
- 198.18.0.0/15 Benchmark Tests (RFC2544)
- 198.51.100.0/24 "TEST-NET-2" documentation and examples (RFC5737)
- 203.0.113.0/24 "TEST-NET-3" documentation and examples (RFC5737)
- 224.0.0.0/4 Multicast (RFC3171)
- 240.0.0.0/4 Reserved for future use (RFC1112)

Multicast address range: 224.0.0.0 – 239.255.255.255 inclusive

- 224.0.0.0/4 Multicast
- 224.0.0.0/24 Multicast Link-local (not to be forwarded between subnets)
- 232.0.0.0/8 SSM (reserved for Source-Specific Multicast)
- 239.0.0.0/8 ASM (Any Source Multicast)

Private AS Numbers

65412 - 65535