

CLASSE	RANGE IP	NUMERO HOST	NUMERO RETI
A	da 1.0.0.0 a 126.255.255.255	24 bit 16.777.214 host	8 bit 128 reti
B	da 128.0.0.0 a 191.255.255.255	16 bit 65.534 host	14 bit 16.384 reti
C	da 192.0.0.0 a 223.255.255.255	8 bit 254 host	21 bit 2.097.152 reti
D	da 224.0.0.0 a 239.255.255.255	riservata per il multicasting	
E	da 240.0.0.0 a 254.255.255.255	riservata per usi futuri	

Classe	Range indirizzi privati	Suddivisione indirizzo	Indirizzi disponibili
Classe A	10.0.0.0 – 10.255.255.255	8 bit rete 24 bit host	1 Rete 16M di host
Classe B	172.16.0.0 – 172.31.255.255	16 bit rete 16 bit host	16 reti 65536 host
Classe C	172.16.0.0 – 172.31.255.255	24 bit rete 8 bit host	256 reti 256 host

Decimale	Binario
128	10000000
192	11000000
224	11100000
240	11110000
248	11111000
252	11111100
254	11111110
255	11111111

Numero indirizzi a disposizione
 Bit a '1' nell'ultimo byte della netmask
 Ultimo byte della netmask (dec/hex)
 Ultimo byte della netmask (bin)
 Range di indirizzi validi

256 indirizzi 0 bits (/24) 0 (0x00) 00000000	128 indirizzi 1 bits (/25) 128 (0x80) 10000000	64 indirizzi 2 bits (/26) 192 (0xC0) 11000000	32 indirizzi 3 bits (/27) 224 (0xE0) 11100000	16 indirizzi 4 bits (/28) 240 (0xF0) 11110000	8 indirizzi 5 bits (/29) 248 (0xF8) 11111000	4 indirizzi 6 bits (/30) 252 (0xFC) 11111100
.0 - .255	.0 - .127	.0 - .63	.0 - .31	.0 - .15	.0 - .7	.0 - .3
						.4 - .7
					.8 - .15	.8 - .11
						.12 - .15
				.16 - .23		.16 - .19
				.16 - .23	.20 - .23	
					.24 - .27	
				.24 - .31	.28 - .31	
			.32 - .63		.32 - .35	
			.32 - .39	.36 - .39		
				.40 - .47		
				.44 - .47		
			.48 - .63	.48 - .51		
				.52 - .55		
			.56 - .63	.56 - .59		
				.60 - .63		
		.64 - .127	.64 - .95	.64 - .79	.64 - .71	.64 - .67
						.68 - .71
					.72 - .79	.72 - .75
						.76 - .79
				.80 - .95	.80 - .87	.80 - .83
						.84 - .87
					.88 - .95	.88 - .91
						.92 - .95
			.96 - .127	.96 - .111	.96 - .103	.96 - .99
						.100 - .103
					.104 - .111	.104 - .107
						.108 - .111
				.112 - .127	.112 - .119	.112 - .115
						.116 - .119
					.120 - .127	.120 - .123
						.124 - .127
	.128 - .255	.128 - .191	.128 - .159	.128 - .143	.128 - .135	.128 - .131
						.132 - .135
					.136 - .143	.136 - .139
						.140 - .143
				.144 - .159	.144 - .151	.144 - .147
						.148 - .151
					.152 - .159	.152 - .155
						.156 - .159
			.160 - .191	.160 - .175	.160 - .167	.160 - .163
						.164 - .167
					.168 - .175	.168 - .171
						.172 - .175
				.176 - .191	.176 - .183	.176 - .179
						.180 - .183
					.184 - .191	.184 - .187
						.188 - .191
		.192 - .255	.192 - .223	.192 - .207	.192 - .199	.192 - .195
						.196 - .199
					.200 - .207	.200 - .203
						.204 - .207
				.208 - .223	.208 - .215	.208 - .211
						.212 - .215
					.216 - .223	.216 - .219
						.220 - .223
			.224 - .255	.224 - .239	.224 - .231	.224 - .227
						.228 - .231
					.232 - .239	.232 - .235
						.236 - .239
				.240 - .255	.240 - .247	.240 - .239
						.244 - .247
					.248 - .255	.248 - .251
						.252 - .255

Address range validi con prefix length compresi tra /24 e /30.

Dec	Bin	Dec2	Bin3	Dec4	Bin5	Dec6	Bin7
	0 00000000	64 '01000000	128 '10000000			192 '11000000	
	1 00000001	65 '01000001	129 '10000001			193 '11000001	
	2 00000010	66 '01000010	130 '10000010			194 '11000010	
	3 00000011	67 '01000011	131 '10000011			195 '11000011	
	4 00000100	68 '01000100	132 '10000100			196 '11000100	
	5 00000101	69 '01000101	133 '10000101			197 '11000101	
	6 00000110	70 '01000110	134 '10000110			198 '11000110	
	7 00000111	71 '01000111	135 '10000111			199 '11000111	
	8 00001000	72 '01001000	136 '10001000			200 '11001000	
	9 00001001	73 '01001001	137 '10001001			201 '11001001	
	10 00001010	74 '01001010	138 '10001010			202 '11001010	
	11 '00001011	75 '01001011	139 '10001011			203 '11001011	
	12 '00001100	76 '01001100	140 '10001100			204 '11001100	
	13 00001101	77 '01001101	141 '10001101			205 '11001101	
	14 '00001110	78 '01001110	142 '10001110			206 '11001110	
	15 '00001111	79 '01001111	143 '10001111			207 '11001111	
	16 '00010000	80 '01010000	144 '10010000			208 '11010000	
	17 '00010001	81 '01010001	145 '10010001			209 '11010001	
	18 '00010010	82 '01010010	146 '10010010			210 '11010010	
	19 '00010011	83 '01010011	147 '10010011			211 '11010011	
	20 '00010100	84 '01010100	148 '10010100			212 '11010100	
	21 '00010101	85 '01010101	149 '10010101			213 '11010101	
	22 '00010110	86 '01010110	150 '10010110			214 '11010110	
	23 '00010111	87 '01010111	151 '10010111			215 '11010111	
	24 '00011000	88 '01011000	152 '10011000			216 '11011000	
	25 '00011001	89 '01011001	153 '10011001			217 '11011001	
	26 '00011010	90 '01011010	154 '10011010			218 '11011010	
	27 '00011011	91 '01011011	155 '10011011			219 '11011011	
	28 '00011100	92 '01011100	156 '10011100			220 '11011100	
	29 '00011101	93 '01011101	157 '10011101			221 '11011101	
	30 '00011110	94 '01011110	158 '10011110			222 '11011110	
	31 '00011111	95 '01011111	159 '10011111			223 '11011111	
	32 '00100000	96 '01100000	160 '10100000			224 '11100000	
	33 '00100001	97 '01100001	161 '10100001			225 '11100001	
	34 '00100010	98 '01100010	162 '10100010			226 '11100010	
	35 '00100011	99 '01100011	163 '10100011			227 '11100011	
	36 '00100100	100 '01100100	164 '10100100			228 '11100100	
	37 '00100101	101 '01100101	165 '10100101			229 '11100101	
	38 '00100110	102 '01100110	166 '10100110			230 '11100110	
	39 '00100111	103 '01100111	167 '10100111			231 '11100111	
	40 '00101000	104 '01101000	168 '10101000			232 '11101000	
	41 '00101001	105 '01101001	169 '10101001			233 '11101001	
	42 '00101010	106 '01101010	170 '10101010			234 '11101010	
	43 '00101011	107 '01101011	171 '10101011			235 '11101011	
	44 '00101100	108 '01101100	172 '10101100			236 '11101100	
	45 '00101101	109 '01101101	173 '10101101			237 '11101101	
	46 '00101110	110 '01101110	174 '10101110			238 '11101110	
	47 '00101111	111 '01101111	175 '10101111			239 '11101111	
	48 '00110000	112 '01110000	176 '10110000			240 '11110000	
	49 '00110001	113 '01110001	177 '10110001			241 '11110001	
	50 '00110010	114 '01110010	178 '10110010			242 '11110010	
	51 '00110011	115 '01110011	179 '10110011			243 '11110011	
	52 '00110100	116 '01110100	180 '10110100			244 '11110100	
	53 '00110101	117 '01110101	181 '10110101			245 '11110101	
	54 '00110110	118 '01110110	182 '10110110			246 '11110110	
	55 '00110111	119 '01110111	183 '10110111			247 '11110111	
	56 '00111000	120 '01111000	184 '10111000			248 '11111000	
	57 '00111001	121 '01111001	185 '10111001			249 '11111001	
	58 '00111010	122 '01111010	186 '10111010			250 '11111010	
	59 '00111011	123 '01111011	187 '10111011			251 '11111011	
	60 '00111100	124 '01111100	188 '10111100			252 '11111100	
	61 '00111101	125 '01111101	189 '10111101			253 '11111101	
	62 '00111110	126 '01111110	190 '10111110			254 '11111110	
	63 '00111111	127 '01111111	191 '10111111			255 '11111111	