

Tarea / Prof.: MAJID BAYANI ABBASY, ESc inf

* No serán aceptadas las respuestas Sin el procedimiento correspondiente

1.

Dirección	Eq. Binario
192.168.1.0/24	Ejemplo: 11000000.10101000.00000001.00000000
153.39.254.185/28	10011001.00100111.1111110.10111001
157.74.77.116/25	10011101.01000100.01001101.01110100
130.105.190.15/27	10000010.01101001.10111110.00001111
164.181.172.237/21	10100100.10110101.10101100.11101101
129.109.217.203/27	10000001.01101101.11011001.11001101
169.244.217.76/27	10101001.11101000.11011001.01001100
240.181.76.31/23	11110000.10110101.01001100.00011111
188.219.246.28/22	10111100.11011011.11101110.00011100
160.35.201.195/23	10100000.00100011.11001001.11000011
184.92.159.161/26	10111000.01011100.10011111.10100001
177.225.68.207/28	10110001.11111111.01000100.11001111
167.227.130.100/29	10100111.11100011.10000010.01100100
155.93.160.105/28	10011011.01011101.10100000.01101001
160.251.124.93/22	10100000.11111011.01111100.01011101
144.92.197.174/26	10010000.01011100.11000101.10101110
162.76.103.37/29	10100010.01001100.01100111.00100101
168.171.242.145/20	10101000.10101011.11110010.10010001
250.71.180.221/27	11111010.01000111.10110100.11011101
142.91.85.95/22	10001110.01011011.01010101.01011111
186.158.192.10/29	10110100.10011110.11000000.00001010
173.155.225.81/20	10101101.10011011.11100001.01010001
157.227.220.38/30	10011101.11100011.11011100.00100110
172.122.209.127/27	10101100.01111010.11010001.01111111
248.205.176.38/27	11111000.11001101.10110000.00100110
134.3.60.116/23	10000110.00000011.00111100.01110100
159.56.252.41/28	10011111.00111000.11111100.00101001
156.28.168.128/24	10011100.00011100.10101000.10000000
101.145.3.123/13	01100101.10010001.00000011.01111011
211.16.44.203/12	11010011.00010000.00101100.11001011
221.18.99.23/18	11011101.00010010.01100011.00010111
191.40.86.1/17	10111111.00101000.01010110.00000001
172.16.83.29/14	10101100.00010000.01010011.00011101
20.25.24.87/15	00010100.00011001.00011000.01010111
21.41.11.54/16	00010101.00010100.00001011.00101100
52.62.27.78/11	00110100.00111110.00010111.01001110
85.45.26.74/8	01010101.00101101.00010100.01001010
2.62.27.78/11	00000010.00111110.00011011.01001110
185.145.226.70/18	10111001.10010001.11100010.01000110
152.60.27.178/21	10011000.00111100.00011011.10110010
185.35.206.12/8	10111001.00100011.11001110.00001100

153.39.254.185/28

255=11111111

$$128+16+8+1=153 \quad 32+4+2+1=39 \quad 255-1=0 \quad 128+32+16+8+1=185$$

10011001.00100111.11111110.10111001

157.74.77.116/25

$$128+16+8+4+1 \quad 64+8+2 \quad 64+8+2+1 \quad 64+32+16+4$$

10011101.01001010.01001101.01101000

130.105.190.15/27

$$128+2 \quad 64+32+8+1 \quad 128+32+16+4+1 \quad 128+64+32+8+4+1$$

10000010.01101001.10111110.00001111

164.181.172.237/21

$$128+32+4 \quad 128+32+16+4+1 \quad 128+32+16+4+1 \quad 128+64+32+8+4+1$$

10100100.10110101.10101100.11101101

129.109.217.203/27

$$128+1 \quad 64+32+8+4+1 \quad 128+64+16+8+1 \quad 128+64+8+1$$

10000001.01101101.11011001.11001011

169.244.217.76/27

$$128+32+8+1 \quad 128+64+32+16+4 \quad 128+64+16+8+1 \quad 64+8+4$$

10101001.11101000.11011001.01001100

240.181.76.31/23

$$11110000.10110101.01001100.00011111$$

128+64+32+16 \quad 128+32+16+4+1 \quad 64+32+4 \quad 32-1

188.219.246.28/22

$$10111000.11011011.11101110.00011100$$

128+32+16+8+4 \quad 128+64+16+8+2+1 \quad 16+8+4

128+64+32+16 \quad 16+8+4

16+8+4

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186.158.192.10/29

$$160+16+8+1 \quad 169-1 \quad 128+64 \quad 8+2$$

10111010.10011110.11000000.00001010

173.155.225.81/20

$$160+12+1 \quad 169-4 \quad 224+1 \quad 80+1$$

10101101.10011011.11100001.01010001

157.227.220.38/30

$$159-2 \quad 224+2+1 \quad 223-3 \quad 32+6$$

10011101.11100011.11011100.00100110

172.122.209.127/27

$$160+8+4 \quad 127-5 \quad 192+16+1 \quad 128-1$$

10101100.01111010.11010001.01111111

248.205.176.38/27

$$240+8 \quad 192+8+4+1 \quad 160+16 \quad 32+4+2$$

11111000.11001101.10110000.00100110

134.3.60.116/23

$$128+4+2 \quad 2+1 \quad 63-3 \quad 96+16+4$$

10000110.00000011.00111100.01101000

159.56.252.41/28

$$160-1 \quad 32+16+8 \quad 255-3 \quad 32+8+1$$

10011111.00111000.11111100.00101001

156.28.168.128/24

$$159-3 \quad 16+8+1 \quad 160+8 \quad 127+1$$

10011100.00011100.10101000.10000000

101.145.3.123/13

$$96+5 \quad 194+1 \quad 2+1 \quad 127-4$$

01100101.10010001.00000011.01111011

211.16.44.203/12

$$192+16+3 \quad 15+1 \quad 32+8+4 \quad 207-4$$

11010011.00010000.00101100.11001011

221.18.99.23/18

$$223-2 \quad 16+2 \quad 96+3 \quad 16+7$$

11011101.00010010.01100011.00010111

191.40.86.1/17

$$192-1 \quad 32+8 \quad 80+6 \quad 0+1$$

10111111.00101000.01010110.00000001

172.16.83.29/14

$$160+8+4 \quad 15+1 \quad 80+3 \quad 16+8+4+1$$

10101100.00010000.01010011.00011101

20.25.24.87/15

$$16+4 \quad 16+3+1 \quad 16+8 \quad 80+7$$

00010100.00011001.00011000.01010111

21.41.11.54/16

$$16+4+1 \quad 32+8+1 \quad 8+3 \quad 32+16+6$$

00010101.00101001.00001011.00110110

52.62.27.78/11

$$32+16+4 \quad 63-1 \quad 16+8+2+1 \quad 64+14$$

00110100.00111110.00011011.01001110

185.145.226.70/18

$$160+16+4 \quad 128+16+1 \quad 224+2 \quad 64+4+2$$

10111001.10010001.11100010.01000110

152.60.27.178/21

$$159-7 \quad 32+16+8+4 \quad 16+8+2+1 \quad 160+16+2$$

10011000.00111100.00011011.10110010

185.35.206.12/8

$$176+4 \quad 32+3 \quad 192+8+4+2 \quad 8+4$$

10111001.00100011.11001110.00001100

162.76.103.37/29

$$160+2 \quad 64+8+4 \quad 96+7 \quad 32+4+1$$

10100010.01001100.01100111.00100101

168.171.242.145/20

$$160+6 \quad 160+8+2+1 \quad 240+2 \quad 128+16+1$$

10101000.10101011.11110010.10010001

250.71.180.221/27

$$248+2 \quad 64+7 \quad 160+16+4 \quad 223-2$$

11111010.01000111.10110100.11011101

142.91.85.95/22

$$128+8+4+2 \quad 95-4 \quad 80+4+1 \quad 96-1$$

10001110.01011011.01010101.01011111

	Esa Parte es opcional
85.45.26.74/28	
52.62.27.78/31	
5. 36.26. 26/18	
1.169.207.178/29	
215.85.21.43/17	
72.62.27.78/8	
185.36.26.74/9	
52.62.27.78/10	
85.75.26.94/11	
51.62.29.23/13	
65.45.26.74/15	
32.62.27.78/16	
85.44.33.74/18	
52.22.27.78/20	
85.45.26.74/21	
52.162.127.178/22	
85.45.26.78/23	
52.62.27.28/24	
85.45.26.34/25	
52.62.129.48/26	
80.48.22.74/27	
85.44.33.78/17	
52.22.207.18/22	
85.45.0.0/11	
52.160.127.178/23	
85.145.209.48/24	
52.162.127.128/28	
85.145.126.134/30	
52.162.129.208/21	
80.48.21.14/25	
105.35.206.12/18	
211.163.122.81/20	
85.45.256.73/21	
52.362.127.178/11	
50.136.216. 26/19	
10.169.27.178/19	
215.85.211.143/29	
70.162.127.78/8	
18.136.26.74/9	
152.162.127.78/10	
15.175.26.94/11	
51.122.29.23/23	
65.145.26.74/15	
32.162.127.178/26	
85.44.33.74/17	
52.22.27.78/22	
85.45.26.74/28	
152.162.127.178/12	
15.145.256.178/13	
22.152.27.28/14	

	Esa Parte es opcional
52.12.129.48/16	00110100.00001100.10000001.00110000
180.148.20.14/27	10110100.10010100.00010100.00001110
85.64.33.68/27	01010101.01000000.00100001.01000100
52.22.27.18/12	00110100.00010110.00011011.00010010
85.45.10.0/21	01010101.00101101.00001010.00000000
5.16.12.178/13	00000101.00010000.00001100.10110010
85.15.9.48/14	01010101.00001111.00001001.00110000
52.2.27.128/18	00110100.00000010.00011011.10000000
85.5.16.14/30	01010101.00000101.00010000.00001110
77.12.19.208/25	01010001.00001100.00010011.11010000
88.48.121.14/21	01011000.00110000.01111001.00001110

2. Obligatorio

11000001.10101001.00000001.00000001	193.169.1.1 ejemplo
11001011.10111001.00010001.00100001	203.185.17.33
11000001.10101101.01010001.00000001	193.173.81.1
11100101.10101001.00000001.00000001	229.169.1.1
11110001.11101011.10001001.10000001	241.235.137.129
11011101.10101001.00001001.10010001	211.169.9.145
11001001.11111001.00110001.00001111	201.249.49.15
11010001.10101111.01010011.00101001	209.175.83.41
01010001.10111001.10010001.10000111	81.185.145.135
11001101.10111101.00010101.00001101	205.189.21.13
11011101.11100101.10011001.10100110	221.229.153.166
11011001.10101001.00000001.10000001	217.169.1.129
11110001.10101001.10100101.01000000	241.169.165.64
11111001.10111101.11010001.00100000	249.189.209.32
11111001.10101101.11001111.00010001	249.173.207.17
11001010.11101100.01111000.00000000	202.236.120.0

3. Obligatorio

Dirección	Dir. de Red	Rango de host Utilizable	Dir de Bcast	Dir de la Mascara	
192.168.1.0/24 ³²⁻²⁴⁼⁸	192.168.1.0	.1.1 $\xrightarrow{255}$.1.254	.1.255	255.255.255.0	8 ceros
153.39.254.185/28 ³²⁻²⁸⁼⁴	.254.185	.254.186 $\xrightarrow{15}$.254.199	.254.200	255.255.255.240	4 ceros
157.74.77.116/25 ³²⁻²⁵⁼⁷	.77.116	.77.117 $\xrightarrow{127}$.77.242	.77.243	255.255.255.128	7 ceros
130.105.190.15/27 ³²⁻²⁷⁼⁵	.190.15	.190.16 $\xrightarrow{30}$.190.45	.190.46	255.255.255.224	5 ceros
164.181.172.237/21 ³²⁻²¹⁼¹¹	.172.237	.172.238 $\xrightarrow{254}$.180.235	.180.236	255.255.248.0	11 ceros
129.109.217.203/27 ⁵	.217.203	.217.204 $\xrightarrow{22}$.217.233	.217.234	255.255.255.224	5 ceros
169.244.217.76/27 ⁵	.217.76	.217.77 $\xrightarrow{30}$.217.106	.217.107	255.255.255.224	5 ceros
240.181.76.31/23 ³²⁻²³⁼⁹	.76.31	.76.32 $\xrightarrow{510}$.78.29	.78.30	255.255.254.0	9 ceros
188.219.246.28/22 ³²⁻²²⁼¹⁰	.246.28	.246.29 $\xrightarrow{1022}$.250.26	.250.27	255.255.252.0	10 ceros
160.35.201.195/23 ⁹	.201.195	.201.196 $\xrightarrow{510}$.203.193	.203.194	255.255.254.0	9 ceros
184.92.159.161/26 ³²⁻²⁶⁼⁶	.159.161	.159.162 $\xrightarrow{62}$.159.223	.159.224	255.255.255.192	6 ceros
177.225.68.207/28 ⁴	.68.207	.68.208 $\xrightarrow{74}$.68.221	.68.222	255.255.255.240	4 ceros
167.227.130.100/29 ³²⁻²⁹⁼³	.130.100	.130.101 $\xrightarrow{6}$.130.106	.130.107	255.255.255.248	3 ceros

15)	155.93.160.105/28	4	.160.105	.160.106 $\xrightarrow{14}$.160.119	.160.120	255.255.255.240	4 ceros
	160.251.124.93/22	10	.124.93	.124.94 $\xrightarrow{1022}$.128.91	.128.92	255.255.252.0	10 ceros
	144.92.197.174/26	6	.197.174	.197.175 $\xrightarrow{62}$.197.236	.197.237	255.255.255.192	6 ceros
	162.76.103.37/29	3	.103.37	.103.38 $\xrightarrow{6}$.103.43	.103.44	255.255.255.248	3 ceros
17)	168.171.242.145/20	12	.171.242.145	.171.242.146 $\xrightarrow{4094}$.172.2.143	.172.2.144	255.255.240.0	12 ceros
	250.71.180.221/27	5	.180.221	.180.222 $\xrightarrow{30}$.180.251	.180.252	255.255.255.224	5 ceros
19)	142.91.85.95/22	10	.85.95	.85.96 $\xrightarrow{1022}$.89.93	.89.94	255.255.252.0	10 ceros
	186.158.192.10/29	3	.192.10	.192.11 $\xrightarrow{6}$.192.16	.192.17	255.255.255.248	3 ceros
21)	173.155.225.81/20	12	.225.81	.225.82 $\xrightarrow{4094}$.241.79	.241.80	255.255.240.0	12 ceros
	157.227.220.38/30	2	.220.38	.220.39 $\xrightarrow{2}$.220.40	.220.41	255.255.255.252	2 ceros
	172.122.209.127/27	5	.209.127	.209.128 $\xrightarrow{30}$.209.157	.209.158	255.255.255.224	5 ceros
	248.205.176.38/27	5	.176.38	.176.39 $\xrightarrow{30}$.176.68	.176.69	255.255.255.224	5 ceros
25)	134.3.60.116/23	9	.60.116	.60.117 $\xrightarrow{510}$.62.114	.62.115	255.255.254.0	9 ceros
	159.56.252.41/28	4	.252.41	.252.42 $\xrightarrow{14}$.252.55	.252.56	255.255.255.240	4 ceros
27)	156.28.168.128/24	8	.168.128	.168.129 $\xrightarrow{254}$.169.126	.169.127	255.255.255.0	8 ceros
28)	101.145.3.123/13	19	.145.3.123	.145.3.124 $\xrightarrow{524286}$.153.2.121	.153.2.122	255.248.0.0	19 ceros
29)	211.16.44.203/12	20	.16.44.203	.16.44.204 $\xrightarrow{1048574}$.32.43.201	.32.43.202	255.240.0.0	20 ceros
30)	221.18.99.23/18	14	.99.23	.99.24 $\xrightarrow{16382}$.153.21	.153.22	255.255.192.0	14 ceros
31)	191.40.86.1/17	15	.86.1	.86.2 $\xrightarrow{32766}$.113.255	.113.0	255.255.128.0	15 ceros
32)	172.16.83.29/14	18	.16.83.29	.16.83.30 $\xrightarrow{262142}$.20.82.27	.20.82.28	255.252.0.0	18 ceros
33)	20.25.24.87/15	17	.25.24.87	.25.24.88 $\xrightarrow{131070}$.27.23.85	.27.23.86	255.254.0.0	17 ceros
34)	21.41.11.54/16	16	.41.11.54	.41.11.55 $\xrightarrow{65534}$.42.10.52	.42.10.53	255.255.0.0	16 ceros
35)	52.62.27.78/11	21	.62.27.78	.62.27.79 $\xrightarrow{2097150}$.94.26.76	.94.26.77	255.224.0.0	21 ceros
36)	85.45.26.74/8	24	.45.26.74	.45.26.75 $\xrightarrow{1677724}$.86.44.25.72	.86.44.25.73	255.0.0.0	24 ceros
37)	2.62.27.78/11	21	.62.27.78	.62.27.79 $\xrightarrow{2097150}$.94.26.76	.94.26.77	255.224.0.0	21 ceros
38)	185.145.226.70/18	14	.145.226.70	.145.226.71 $\xrightarrow{16382}$.146.34.68	.146.34.69	255.255.192.0	14 ceros
39)	152.60.27.178/21	11	.27.178	.27.179 $\xrightarrow{2046}$.35.176	.35.177	255.255.248.0	11 ceros
40)	185.35.206.12/8	24	.35.206.12	.35.206.13 $\xrightarrow{1677724}$.186.34.205.10	.186.34.205.11	255.0.0.0	24 ceros
41)	211.162.127.8/25	7	.127.8	.127.8 $\xrightarrow{126}$.127.134	.127.135	255.255.255.128	7 ceros

Esa Parte OPCIONAL (Hacia abajo)

72.62.27.78/8				
185.36.26.74/9				
52.62.27.78/10				
85.75.26.94/11				
51.62.29.23/13				
65.45.26.74/15				
32.62.27.78/16				
85.44.33.74/18				
52.22.27.78/20				
85.45.26.74/21				
52.162.127.178/22				
85.45.26.78/23				
52.62.27.28/24				
85.45.26.34/25				
52.62.129.48/26				
80.48.22.74/27				
85.44.33.78/17				

		Esa Parte OPCIONAL		
85.45.0.0/11				
52.160.127.178/23				
85.145.209.48/24				
52.162.127.128/28				
85.145.126.134/30				
52.162.129.208/21				
80.48.21.14/25				
105.35.206.12/18				
211.163.122.81/20				
85.45.256.73/21				
52.362.127.178/11				
50.136.216. 26/19				
10.169.27.178/19				
215.85.211.143/29				
70.162.127.78/8				
18.136.26.74/9				
152.162.127.78/10				
15.175.26.94/11				
51.122.29.23/23				
65.145.26.74/15				
32.162.127.178/26				
85.44.33.74/17				
52.22.27.78/22				
85.45.26.74/28				
152.162.127.178/12				
15.145.256.178/13				
22.152.27.28/14				
85.25.126.34/15				
52.12.129.48/16				
180.148.20.14/27				
85.64.33.68/27				
52.22.27.18/12				
85.45.10.0/21				
5.16.12.178/13				
85.15.9.48/14				
52.2.27.128/18				
85.5.16.14/30				
77.12.19.208/25				
88.48.121.14/21				