

Scrivere per i seguenti IP: IP Network, IP Gateway 'convenzionale', IP Broadcast, quanti e quali per gli host, quanti e quali per la network.

- 1.1.1.1/8
- 128.1.6.5/12
- 200.1.2.3/24
- 192.192.1.1/22
- 126.5.4.3/9
- 200.1.9.8/24
- 172.16.0.4/16

1.1.1.1/8

Classe A (nnnnnnnnn.hhhhhhhh.hhhhhhhh.hhhhhhhh)

N=8 H=24

11111111.00000000.00000000.00000000

subnetmask->255.0.0.0

IP Network-> 1.0.0.0/8

IP broadcast -> 1.255.255.255/8

IP gateway->1.0.0.1/8

IP Host->1.0.0.2/8-1.255.255.254/8

128.1.6.5/12

N=12 H=20

Classe B -> 11111111.11110000.00000000.00000000

subnet mask-> 11110000

16+32+64+128=240

256.240.0.0

IP Network-> 128.0.0.0/12

IP Broadcast-> 256-240=16 ->128.15.255.255/12

IP Gateway-> 128.0.0.1/12

IP Host->128.15.0.2/12 - 128.15.255.254/12

200.1.2.3/24

Classe C-> 11111111.11111111.11111111.00000000

N=24 H=8

Subnet mask->255.255.255.0

IP Network->200.1.2.0/24

IP Broadcast->200.1.2.255/24

IP Gateway->200.1.2.1/24

IP Host-> 200.1.2.2/24 - 200.1.2.254/24

192.192.1.1/22

Classe C -> 11111111.11111111.11111100.00000000 N=22 H=10

$4+8+16+32+64+128=252$

Subnet Mask-> 255.255.252.0

IP Network->192.192.0.0/22

IP Broadcast-> $256-252=4$ -> 192.192.4.255/22

IP Gateway->192.192.0.1

IP Host-> 192.192.0.2/22 - 192.192.4.254/22

126.5.4.3/9

N=9 H=21

Classe B-> 11111111.10000000.00000000.00000000

Subnet Mask-> 255.128.0.0

IP Network-> 126.0.0.0/9

IP Broadcast -> 126.128.255.255/9

IP Gateway-> 126.0.0.1/9

IP Host-> 126.0.0.2/9 - 126.128.255.254/9

200.1.9.8/24

Classe C-> 11111111.11111111.11111111.00000000

N=24 H=8

subnet Mask-> 255.255.255.0

IP Network->200.1.9.0/24

IP Broadcast-> 200.1.9.255/24

IP Gateway->200.1.9.1/24

IP Host-> 200.1.9.2/24 - 200.1.9.254/24

172.16.0.4/16

N=16 H=16

Classe B-> 11111111.11111111.00000000.00000000

Subnet Mask-> 255.255.0.0

IP Network->172.16.0.0/16

IP Broadcast->172.16.255.255/16

IP Gateway->172.16.0.1/16

IP Host-> 172.16.0.2/16 - 172.16.255.254/16