

PROVA PRATICA 30/07/2024

Esercizio1:

128.1.6.5/12

Subnet mask: CIDR 12 => 11111111.11110000.00000000.00000000=> 255.240.0.0

convertito 128.1.6.5 => 10000000.00000001.00000110.00000101

IP NETWORK: 10000000.00000000.00000000.00000000 => 128.0.0.0

IP GATEWAY : 128.0.0.1 => 10000000.00000000.00000000.00000001

IP BROADCAST : 10000000.00001111.11111111.11111111=> 128.15.255.255

Rete: 2¹² bit riservati.

Host: 2²⁰ bit riservati.

Esercizio2:

200.1.2.3/24

Subnet mask :CIDR 24 => 11111111.11111111.11111111.00000000 => 255.255.255.0

convertito 200.1.2.3 => 11001000.00000001.00000010.00000011

IP NETWORK : 200.1.2.0 => 11001000.00000001.00000010.00000000

IP GATEWAY : 200.1.2.1 => 11001000.00000001.00000010.00000001

IPBROADCAST: 11001000.00000001.00000010.11111111 => 200.1.2.255

Rete: 2²⁴ bit riservati.

Host: 2⁸ bit riservati.

Esercizio3:

192.192.1.1/22

Subnet mask: CIDR 22 => 11111111.11111111.11111100.00000000 => 255.255.252.0

convertito 192.192.1.1 => 11000000.11000000.00000001.00000001

IP NETWORK: 11000000.11000000.0000000000.00000000 => 192.192.0.0

IP GATEWAY : 192.192.0.1

IP BROADCAST: 11000000.11000000.0000000011.11111111 => 192.192.3.255

Rete: 2²² bit riservati.

Host: 2¹⁰ bit riservati.

Esercizio 4:

126.5.4.3/9

Subnet Mask : CIDR 9 => 11111111.100000000.00000000.00000000 => 255.128.0.0

convertito 126.5.4.3 => 01111110.00000101.00000100.00000011

IP NETWORK : 01111110.000000000.00000000.00000000 => 126.0.0.0

IP GATEWAY: 126.0.0.1

IP BROADCAST: 01111110.011111111.11111111.11111111 => 126.127.255.255

Rete: 2⁹ bit riservati.

Host: 2²³ bit riservati.

Esercizio 5:

200.1.9.8/24

Subnet Mask: CIDR 24 => 11111111.11111111.11111111.00000000 => 255.255.255.0

convertito 200.1.9.8 => 11001000.00000001.00001001.00001000

IP NETWORK: 11001000.00000001.00001001.00000000 => 200.1.9.0

IP GATEWAY : 200.2.9.1

IP BROADCAST : 11001000.00000001.00001001.11111111 => 200.1.9.255

Rete: 2²⁴ bit riservati.

Host: 2⁸ bit riservati.

Esercizio 6:

172.16.0.4/16

Subnet Mask: CIDR 16=> 11111111.11111111.00000000.00000000 => 255.255.0.0

convertito 172.16.0.4 => 10101100.00010000.00000000.00000100

IP NETWORK: 10101100.00010000.00000000.00000000 => 172.16.0.0

IP GATEWAY : 172.16.0.1

IP BROADCAST: 10101100.00010000.11111111.11111111 => 172.16.255.255

Rete: 2¹⁶ bit riservati.

Host: 2¹⁶ bit riservati.