

RISOLUZIONE ESERCIZI DEL 9/04/2024

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

- 1. 1.1.1.1/8
- 2. 128.1.6.5/12
- 3. 200.1.2.3/24
- 4. 192.192.1.1/22
- 5. 126.5.4.3/9
- 6. 200.1.9.8/24
- 7. 172.16.0.4/16

Es.1

IP: 1.1.1.1/8
SUBNET MASK: 255.0.0.0

OTTETTI DISPONIBILI:

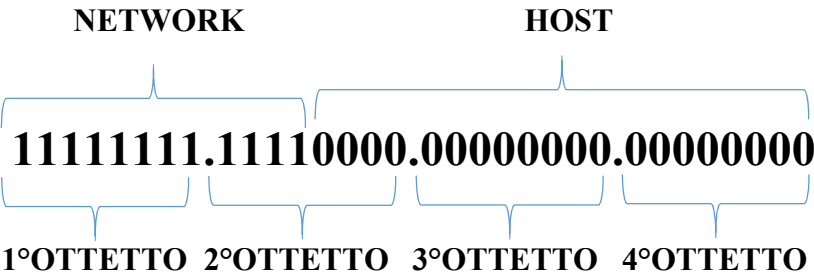


IP NETWORK	IP GATEWAY	IP BROADCAST	IP HOST
1.0.0.0/8	1.0.0.1	1.255.255.255	da 1.0.0.2 a 1.254.255.255

Es.2

IP: 128.1.6.5/12
SUBNET MASK: 255.240.0.0

OTTETTI DISPONIBILI:



IP NETWORK	IP GATEWAY	IP BROADCAST	IP HOST
128.0.0.0/12	128.0.0.1/12	128.15.255.255	Da 128.0.0.2 a 128.15.255.255

Es.3

IP: 200.1.2.3/24
SUBNET MASK: 255.255.255.0

OTTETTI DISPONIBILI:

The diagram illustrates the structure of an IPv4 address, which is a 32-bit binary number represented in dotted decimal notation. It is divided into two main sections: **NETWORK** and **HOST**.

The address shown is **11111111.11111111.11111111.00000000**. The first three octets (11111111.11111111.11111111) are grouped under the **NETWORK** label, and the fourth octet (00000000) is grouped under the **HOST** label.

Each octet is further labeled as **1° OTTETTO**, **2° OTTETTO**, **3° OTTETTO**, and **4° OTTETTO** respectively, indicating they are 8-bit segments.

IP NETWORK	IP GATEWAY	IP BROADCAST	IP HOST
200.1.2.0/24	200.1.2.1/24	200.1.2.255	Da 200.1.2.2 a 200.1.2.254

Es.4

IP: 192.192.1.1/22
SUBNET MASK: 255.255.252.0

OTTETTI DISPONIBILI:

The diagram illustrates the structure of an IPv4 address, which is a 32-bit binary number. It is divided into two main sections: **NETWORK** and **HOST**.

The address is shown as **11111111.11111111.11111100.00000000**. Brackets above the address indicate the **NETWORK** portion (the first three octets) and the **HOST** portion (the last octet). Brackets below the address divide each octet into an **OTTOETTO** (octet).

The address is divided into four octets, each labeled as **OTTOETTO** (octet):

- 1°OTTOETTO (1st octet)
- 2°OTTOETTO (2nd octet)
- 3°OTTOETTO (3rd octet)
- 4°OTTOETTO (4th octet)

IP NETWORK	IP GATEWAY	IP BROADCAST	IP HOST
192.192.0.0/22	192.192.0.1/22	192.192.4.255	Da 192.192.0.2 a 192.192.4.254

Es.5

IP: 126.5.4.3/9
SUBNET MASK: 255.127.0.0

OTTETTI DISPONIBILI:

The diagram illustrates the structure of an IPv4 address, which is a 32-bit binary number. It is divided into two main parts: the **NETWORK** portion and the **HOST** portion. The address is shown as **11111111.10000000.00000000.00000000**. The first octet (8 bits) is labeled as the **1° OTTETTO** (1st octet). The remaining three octets (24 bits) are collectively labeled as the **HOST** portion. Each octet is further labeled as **2° OTTETTO**, **3° OTTETTO**, and **4° OTTETTO** respectively. Blue brackets and lines indicate the grouping of bits into octets and the division between the network and host portions.

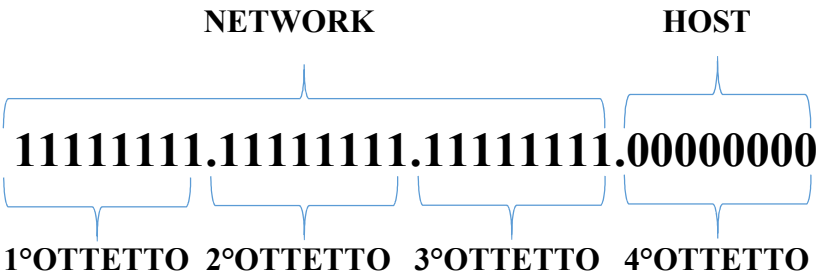
IP NETWORK	IP GATEWAY	IP BROADCAST	IP HOST
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126.128.0.0/9	126.128.0.1/9	126.129.255.255/9	Da 126.128.0.2 a 126.129.254.255
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Es.6

IP: 200.1.9.8/24
SUBNET MASK: 255.255.255.0

OTTETTI DISPONIBILI:



IP NETWORK	IP GATEWAY	IP BROADCAST	IP HOST
200.1.9.0/24	200.1.9.1/24	200.1.9.255	Da 200.1.9.2 a 200.1.9.254

Es.7

IP: 172.16.0.4/16
SUBNET MASK: 255.255.0.0

OTTETTI DISPONIBILI:



IP NETWORK	IP GATEWAY	IP BROADCAST	IP HOST
172.16.0.0/16	172.16.0.1/16	172.16.255.255/16	Da 172.16.0.2 a 172.16.254.255