

Calculadora ip

Para linux tenemos un calculadora de redes llamada sipcalc.

```
sudo apt-get install sipcalc
```

Por ejemplo:

```
sipcalc 172.19.1.128/25
```

```
-[ipv4 : 172.19.1.128/25] - 0

[CIDR]
Host address      - 172.19.1.128
Host address (decimal) - 2886926720
Host address (hex) - AC130180
Network address   - 172.19.1.128
Network mask      - 255.255.255.128
Network mask (bits) - 25
Network mask (hex) - FFFFFFF80
Broadcast address - 172.19.1.255
Cisco wildcard    - 0.0.0.127
Addresses in network - 128
Network range     - 172.19.1.128 - 172.19.1.255
Usable range      - 172.19.1.129 - 172.19.1.254
```

Con ipcalc podemos con una ip y su máscara obtener la dirección de red o la de broadcast

Por ejemplo

```
ipcalc 172.19.1.205/25
```

```
Address: 172.19.1.205      10101100.00010011.00000001.1 1001101
Netmask: 255.255.255.128 = 25 11111111.11111111.11111111.1 00000000
Wildcard: 0.0.0.127        00000000.00000000.00000000.0 1111111
=>
Network: 172.19.1.128/25   10101100.00010011.00000001.1 00000000
HostMin: 172.19.1.129      10101100.00010011.00000001.1 00000001
HostMax: 172.19.1.254      10101100.00010011.00000001.1 11111110
Broadcast: 172.19.1.255    10101100.00010011.00000001.1 11111111
Hosts/Net: 126              Class B, Private Internet
```

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