**AX i AB:**

**IP = 192.168.1.43/24**

**MX = 255.255.255.0**

**MX = 11111111.11111111.11111111.00000000**

**192.168.1.66**

**192.168.1.235**

**192.168.1.1**

**AX = 192.168.1.0**

**HostMin = 192.168.1.1**

**HostMax = 192.168.1.254**

**AB = 192.168.1.255**

**172.16.4.12/24 -> AX 172.16.4.0 -- +1 --> Hm 172.16.4.1**

**AB 172.16.4.255 -- -1 --> HM 172.16.4.254 256 - (2 = (AX y AB))**

**172.16.4.12/8 ⇒ 8x 24 h → 2²⁴ - 2**

**AX = 172.16.0.0 -- +1 --> Hm = 172.16.0.1**

**AB = 172.16.255.255 -- -1 --> HM = 172.16.255.254**

**VLSM:**

Exemple: 192.168.1.0/24

| **Red** | **N. host** | **MX** | **AX** | **Parte de Red (AB)** | **Parte de host (AB)** | **Decimal** |
| --- | --- | --- | --- | --- | --- | --- |
| X3 | 110 | /25 | 192.168.1.0 | 11000000.10101000.00000001.0 | 1111111 | 192.168.1.127 |
| X2 | 60 | /26 | 192.168.1.128 | 11000000.10101000.00000001.10 | 111111 | 192.168.1.191 |
| X1 | 28 | /27 | 192.168.1.192 | 11000000.10101000.00000001.110 | 11111 | 192.168.1.223 |

**110 dispositivos**

**2^n - 2 >= 110, n=nùm de bits de dispositivos**

**n = 7**

**MX = 32 - 7 = 25**

**AX = 11000000.10101000.00000001.00000000**

**AB = 11000000.10101000.00000001.01111111**

**60 disp**

**2^n -2 >= 60; n = 6; MX = 32 - 6 = 26**

**AX = 11000000.10101000.00000001.10000000**

**AB = 11000000.10101000.00000001.10111111**

**28 disp**

**2^n -2 >= 28; n = 5; MX = 32 - 5 = 27**

**AX = 11000000.10101000.00000001.11000000**

**AB = 11000000.10101000.00000001.11011111**