**Subnetting para que tengamos redes de 39 ordenadores:**

**IP: 194.45.6.78/24**

**MASK: 255.255.255.0**

IMPORTANTE --> 2^N -2

39

N=6

2^6 - 2 = 62

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SUBRED | DIRECCIÓN DE SUBRED | PRIMERA DIRECCION DE HOST UTILIZABLE | ÚLTIMA DIRECCIÓN DE HOST UTILIZABLE | DIRECCIÓN DE DIFUSIÓN / BROADCAST |
| 0 | 194.45.6.0 | 194.45.6.1 | 194.45.6.62 | 194.45.6.63 |
| 1 | 194.45.6.64 | 194.45.6.65 | 194.45.6.126 | 194.45.6.127 |
| 2 | 194.45.6.128 | 194.45.6.129 | 194.45.6.190 | 194.45.6.191 |
| 3 | 194.45.6.192 | 194.45.6.193 | 194.45.6.254 | 194.45.6.255 |
|  |  |  |  |  |
|  |  |  |  |  |
| 194 | 45 | 6 | 78 | ip |
| 11000010 | 00101101 | 00000110 | 01001110 |  |
| 255 | 255 | 255 | 0 | mask |
| 11111111 | 11111111 | 11111111 | 00000000 | mask |
| 255 | 255 | 255 | 11000000 (192) | NEW MASK |
|  |  |  |  |  |
| 194 | 45 | 6 | 00000000 (0) | RED 0 |
| 194 | 45 | 6 | 01000000 (64) | RED 1 |
| 194 | 45 | 6 | 10000000 (128) | RED 2 |
| 194 | 45 | 6 | 11000000(192) | RED 3 |
|  |  |  |  |  |
| 194 | 45 | 6 | 00000001 |  |
|  |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SUBRED | DIRECCIÓN DE SUBRED | PRIMERA DIRECCION DE HOST UTILIZABLE | ÚLTIMA DIRECCIÓN DE HOST UTILIZABLE | DIRECCIÓN DE DIFUSIÓN / BROADCAST |
| 0 | 194.45.6.0 | 194.45.6.1 | 194.45.6.62 | 194.45.6.63 |
| 1 | 194.45.6.64 | 194.45.6.65 | 194.45.6.126 | 194.45.6.127 |
| 2 | 194.45.6.128 | 194.45.6.129 | 194.45.6.190 | 194.45.6.191 |
| 3 | 194.45.6.192 | 194.45.6.193 | 194.45.6.254 | 194.45.6.255 |
|  |  |  |  |  |
|  |  |  |  |  |
| 194 | 45 | 6 | 78 | ip |
| 11000010 | 00101101 | 00000110 | 01001110 |  |
| 255 | 255 | 255 | 0 | mask |
| 11111111 | 11111111 | 11111111 | 00000000 | mask |
| 255 | 255 | 255 | 1100000 (192) | NEW MASK |
|  |  |  |  |  |
| 194 | 45 | 6 | 0000000 (0) | RED 0 |
| 194 | 45 | 6 | 01000000 (64) | RED 1 |
| 194 | 45 | 6 | 10000000 (128) | RED 2 |
| 194 | 45 | 6 | 11000000(192) | RED 3 |
|  |  |  |  |  |
| 194 | 45 | 6 | 00000001 |  |
|  |  |  |  |  |