***220.1.2.0/24 (5 Subredes)***

**Número de bits prestados** 🡪 2^(n) >= 5 🡪 2^3 >= 5 🡪 n=3  
**Número de host por subred** 🡪 2^(n bit host) – 2 = 2^(5) – 2 = 30 hosts  
**Máscara de subred** 🡪 11100000 🡪 224 = 255.255.255.224 🡪 27 bits  
**Dirección de broadcast 1º subred** 🡪 00011111 🡪 31 = 220.1.2.31  
**Intervalo de subredes** 🡪 256 -224 = 32

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ***Nº Subred*** | ***Dirección Subred*** | ***1º Ordenador*** | ***Último Ordenador*** | ***Broadcast*** |
| ***1*** | 0 | 220.1.2.0/27 | 220.1.2.1/27 | 220.1.2.30/27 | 220.1.2.31/27 |
| ***2*** | 32 | 220.1.2.32/27 | 220.1.2.33/27 | 220.1.2.62/27 | 220.1.2.63/27 |
| ***3*** | 64 | 220.1.2.64/27 | 220.1.2.65/27 | 220.1.2.94/27 | 220.1.2.95/27 |
| ***4*** | 96 | 220.1.2.96/27 | 220.1.2.97/27 | 220.1.2.126/27 | 220.1.2.127/27 |
| ***5*** | 128 | 220.1.2.128/27 | 220.1.2.129/27 | 220.1.2.158/27 | 220.1.2.159/27 |
| ***6*** | 160 | 220.1.2.160/27 | 220.1.2.161/27 | 220.1.2.190/27 | 220.1.2.191/27 |
| ***7*** | 192 | 220.1.2.192/27 | 220.1.2.193/27 | 220.1.2.222/27 | 220.1.2.223/27 |
| ***8*** | 224 | 220.1.2.254/27 | 220.1.2.255/27 | 220.1.2.254/27 | 220.1.2.255/27 |

***192.1.2.0/24 (3 Subredes)***

**Número de bits prestados** 🡪 2^(n) >= 3 🡪 2^2 >= 3 🡪 n=2  
**Número de host por subred** 🡪 2^(n bit host) – 2 = 2^(6) – 2 = 62 hosts  
**Máscara de subred** 🡪 11000000 🡪 192 = 255.255.255.192 🡪 26 bits  
**Dirección de broadcast 1º subred** 🡪 00111111 🡪 63 = 192.1.2.63  
**Intervalo de subredes** 🡪 256 -192 = 64

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ***Nº Subred*** | ***Dirección Subred*** | ***1º Ordenador*** | ***Último Ordenador*** | ***Broadcast*** |
| ***1*** | 0 | 192.1.2.0/26 | 220.1.2.1/26 | 220.1.2.62/26 | 220.1.2.63/26 |
| ***2*** | 64 | 192.1.2.64/26 | 220.1.2.33/26 | 220.1.2.126/26 | 220.1.2.127/26 |
| ***3*** | 128 | 192.1.2.128/26 | 220.1.2.65/26 | 220.1.2.190/26 | 220.1.2.191/26 |

***155.20.0.0/16 (5 Subredes)***

**Número de bits prestados** 🡪 2^(n) >= 5 🡪 2^3 >= 5 🡪 n=3  
**Número de host por subred** 🡪 2^(n bit host) – 2 = 2^(13) – 2 = 8190 hosts  
**Máscara de subred** 🡪 1110 0000 🡪 224 = 255.255.224.0 🡪 /19  
**Dirección de broadcast 1º subred** 🡪 00011111 🡪 31 = 155.20.31.255  
**Intervalo de subredes** 🡪 256 – 224 = 32

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ***Nº Subred*** | ***Dirección Subred*** | ***1º Ordenador*** | ***Último Ordenador*** | ***Broadcast*** |
| ***1*** | 0 | 155.20.0.0 /19 | 155.20.0.1 /19 | 155.20.31.254 /19 | 155.20.31.255 /19 |
| ***2*** | 32 | 155.20.32.0 /19 | 155.20.32.1 /19 | 155.20.63. 254 /19 | 155.20.63. 255 /19 |
| ***3*** | 64 | 155.20.64.0 /19 | 155.20.64.1/19 | 155.20.95.254 /19 | 155.20.95.255 /19 |
| ***4*** | 96 | 155.20.96.0 /19 | 155.20.96.1 /19 | 155.20.127.254 /19 | 155.20.127.255 /19 |
| ***5*** | 128 | 155.20.128.0 /19 | 155.20.128.1 /19 | 155.20.159.254 /19 | 155.20.159.255 /19 |

***140.130.0.0/16 (3 Subredes)***

**Número de bits prestados** 🡪 2^(n) >= 3 🡪 2^2>= 3 🡪 n=2  
**Número de host por subred** 🡪 2^(n bit host) – 2 = 2^(14) – 2 hosts  
**Máscara de subred** 🡪 1100 0000 🡪 192 = 255.255.192.0 🡪 /18  
**Dirección de broadcast 1º subred** 🡪 00011111 🡪 31 = 140.130.63.255  
**Intervalo de subredes** 🡪 256 – 192 = 64

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ***Nº Subred*** | ***Dirección Subred*** | ***1º Ordenador*** | ***Último Ordenador*** | ***Broadcast*** |
| ***1*** | 0 | 140.130.0.0 /18 | 140.130.0.1 /18 | 140.130.63.254 /18 | 140.130.63.255 /18 |
| ***2*** | 64 | 140.130.64.0 /18 | 140.130.64.1 /18 | 140.130.127.254 /18 | 140.130.127.255 /18 |
| ***3*** | 128 | 140.130.128.0 /18 | 140.130.128.1/ 18 | 140.130.191.254 /18 | 140.130.191.255 /18 |

***15.0.0.0/8 (4 Subredes)***

**Número de bits prestados** 🡪 2^(n) >= 4 🡪 2^2>= 4 🡪 n=2  
**Número de host por subred** 🡪 2^(n bit host) – 2 = 2^(22) – 2 hosts  
**Máscara de subred** 🡪 1100 0000 🡪 192 = 255.192.0.0 🡪   
**Dirección de broadcast 1º subred** 🡪 00111111 🡪 63 = 15.63.255.255  
**Intervalo de subredes** 🡪 256 – 192 = 64

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | ***Nº Subred*** | ***Dirección Subred*** | ***1º Ordenador*** | ***Último Ordenador*** | ***Broadcast*** |
| ***1*** | 0 | 15.0.0.0 /10 | 15.0.0.1 /10 | 15.63.255.254 /10 | 15.63.255.255 /10 |
| ***2*** | 64 | 15.64.0.0 /10 | 15.64.0.1 /10 | 15.127.255.254 /10 | 15.127.255.255 /10 |
| ***3*** | 128 | 15.128.0.0 /10 | 15.128.0.1 /10 | 15.191.255.254 /10 | 15.191.255.255 /10 |
| ***4*** | 192 | 15.192.0.0 /10 | 15.192.0.1 /10 | 15.255.255.254 /10 | 15.255.255.255 /10 |