STUDIOS DATA / /

SORC - Cálculo de subredes

200.24.30.0/24 em 16 subredes

↳ classe "C"

1- quant. de subredes em potência de base 2

$16 = 2^4$

2- somar expoente com ~~máscara~~ prefixo da rede

$24 + 4 = 28$

~~máscara~~ prefixo das subredes = /28

3- prefixo das subredes em máscara

/28 = 255.255.255.11110000 → 128 + 64 + 32 + 16 = 240

255.255.255.240

máscara das subredes = 255.255.255.240

4- fórmula do salto

$256 - 240 = 16$

número do salto = 16

5- lista das subredes

- 200.24.30.0/28
- 200.24.30.16/28
- 200.24.30.32/28
- 200.24.30.48/28
- 200.24.30.64/28
- 200.24.30.80/28
- 200.24.30.96/28
- 200.24.30.112/28
- 200.24.30.128/28
- 200.24.30.144/28
- 200.24.30.160/28
- 200.24.30.176/28
- 200.24.30.192/28
- 200.24.30.208/28
- 200.24.30.224/28
- 200.24.30.240/28

177.48.10.0/25 em 30 subredes

1- quant. de subredes em potência de base 2

$30 \cong 2^5 = 32$

2- somar expoente com prefixo ~~máscara~~ da rede

$25 + 5 = 30$

prefixo das subredes = /30

3- prefixo das subredes em máscara

/30 = 255.255.255.11111100 → 255.255.255.252

128
+64
32
16
8
4
252

máscara das subredes = 255.255.255.252

4- fórmula do salto

$256 - 252 = 4$

número do salto = 4

5- lista das subredes

- 177.48.10.0/30
- 177.48.10.4/30
- 177.48.10.8/30
- 177.48.10.12/30
- 177.48.10.16/30
- 177.48.10.20/30
- 177.48.10.24/30
- 177.48.10.28/30
- 177.48.10.32/30
- 177.48.10.36/30
- 177.48.10.40/30
- 177.48.10.44/30
- 177.48.10.48/30
- 177.48.10.52/30
- 177.48.10.56/30

[redacted]

- 177.48.10.60/30
- 177.48.10.64/30
- 177.48.10.68/30
- 177.48.10.72/30
- 177.48.10.76/30
- 177.48.10.80/30
- 177.48.10.84/30
- 177.48.10.88/30
- 177.48.10.92/30
- 177.48.10.96/30
- 177.48.10.100/30
- 177.48.10.104/30
- 177.48.10.108/30
- 177.48.10.112/30
- 177.48.10.116/30
- 177.48.10.120/30
- 177.48.10.124/30

135.45.10.0/26 em 5 subredes

1- quant. de subredes em potência de base 2

$5 \leq 2^3 = 8$

2- somar expoente com prefixo da rede

$26 + 3 = 29$

prefixo das subredes = /29

3- prefixo das subredes em máscara

/29 = 255.255.255.11111000

255.255.255.248

128
+ 64
32
16
8
248

máscara das subredes = 255.255.255.248

4- fórmula do salto

256 - 248 = 8

número do salto = 8

5- lista das subredes

- 135.45.10.0/29
- 135.45.10.8/29
- 135.45.10.16/29
- 135.45.10.24/29
- 135.45.10.32/29
- 135.45.10.40/29
- 135.45.10.48/29
- 135.45.10.56/29

172.48.30.0/20 em 100 subredes

1- quant. de subredes em potência de base 2

$100 \cong 2^7 = 128$

2- somar expoente com prefixo da rede

$20 + 7 = 27$

prefixo das subredes = /27

3- prefixo das subredes em máscara

/27 = 255.255.255.11100000 ⟷ 255.255.255.224

128
+64
32
224

máscara das subredes: 255.255.255.224

4- fórmula do salto

256 - 224 = 32 número do salto = 32

5- lista das subredes

- 172.48.30.0/27
- 172.48.30.32/27
- 172.48.30.64/27
- 172.48.30.96/27
- 172.48.30.128/27
- 172.48.30.160/27
- 172.48.30.192/27
- 172.48.30.224/27
- 172.48.31.0/27
- 172.48.31.32/27
- 172.48.31.64/27
- 172.48.31.96/27
- 172.48.31.128/27
- 172.48.31.160/27
- 172.48.31.192/27
- 172.48.31.224/27
- 172.48.32.0/27
- 172.48.32.64/27
- 172.48.32.96/27
- 172.48.32.128/27

- 172.48.32.160/27
- 172.48.32.192/27
- 172.48.32.224/27
- 172.48.33.0/27
- 172.48.33.32/27
- 172.48.33.64/27
- 172.48.33.96/27
- 172.48.33.128/27
- 172.48.33.160/27
- 172.48.33.192/27
- 172.48.33.224/27
- 172.48.34.0/27
- 172.48.34.32/27
- 172.48.34.64/27
- 172.48.34.96/27
- 172.48.34.128/27
- 172.48.34.160/27
- 172.48.34.192/27
- 172.48.34.224/27
- 172.48.35.0/27
- 172.48.35.32/27
- 172.48.35.64/27
- 172.48.35.96/27
- 172.48.35.128/27
- 172.48.35.160/27
- 172.48.35.192/27
- 172.48.35.224/27
- 172.48.36.0/27
- 172.48.36.32/27
- 172.48.36.64/27
- 172.48.36.96/27
- 172.48.36.128/27
- 172.48.36.160/27
- 172.48.36.192/27
- 172.48.36.224/27
- 172.48.37.0/27
- 172.48.37.32/27
- 172.48.37.64/27
- 172.48.37.96/27
- 172.48.37.128/27
- 172.48.37.160/27
- 172.48.37.192/27
- 172.48.37.224/27
- 172.48.38.0/27
- 172.48.38.32/27
- 172.48.38.64/27
- 172.48.38.96/27
- 172.48.38.128/27
- 172.48.38.160/27
- 172.48.38.192/27
- 172.48.38.224/27
- 172.48.39.0/27
- 172.48.39.32/27
- 172.48.39.64/27
- 172.48.39.96/27
- 172.48.39.128/27
- 172.48.39.160/27
- 172.48.39.192/27
- 172.48.39.224/27
- 172.48.40.0/27

- 172.48.40.32/27
- 172.48.40.64/27
- 172.48.40.96/27
- 172.48.40.128/27
- 172.48.40.160/27
- 172.48.40.192/27
- 172.48.40.224/27
- 172.48.41.0/27
- 172.48.41.32/27
- 172.48.41.64/27
- 172.48.41.96/27
- 172.48.41.128/27
- 172.48.41.160/27
- 172.48.41.192/27
- 172.48.41.224/27
- 172.48.42.0/27
- 172.48.42.32/27
- 172.48.42.64/27
- 172.48.42.96/27
- 172.48.42.128/27
- 172.48.42.160/27
- 172.48.42.192/27
- 172.48.42.224/27
- 172.48.43.0/27
- 172.48.43.32/27
- 172.48.43.64/27
- 172.48.43.96/27
- 172.48.43.128/27
- 172.48.43.160/27
- 172.48.43.192/27
- 172.48.43.224/27
- 172.48.44.0/27
- 172.48.44.32/27
- 172.48.44.64/27
- 172.48.44.96/27
- 172.48.44.128/27
- 172.48.44.160/27
- 172.48.44.192/27
- 172.48.44.224/27
- 172.48.45.0/27
- 172.48.45.32/27
- 172.48.45.64/27
- 172.48.45.96/27
- 172.48.45.128/27
- 172.48.45.160/27
- 172.48.45.192/27
- 172.48.45.224/27
- 172.48.46.0/27