

Bloco ISP

128.20.224.0/20

- a) Dividir endereços
- b) tabela R1 com agregação e sem agregação

a)

128.20.224.0/20

10000000 00010100 11100000 00000000

Mask: 255.255.240.0 (11111111 11111111 11110000 00000000) Bcast: 128.20.239.255 (10000000 00010100 11101111 11111111)

[1000 hosts] x2

 $2^{10} - 2 \leftarrow$ 1000 hosts

10000000 00010100 111000XX XXXXXXXX → 128.20.224.0/22 10000000 00010100 111001XX XXXXXXXX → 128.20.228.0/22

[500 hosts] x2

$$2^9 - 2 \leftarrow 500 \text{ hosts}$$

[250 hosts] x3

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2^8 - 2 \leftarrow 250 \text{ hosts}
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[50 hosts] x3

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2^6 - 1 \leftarrow 50 \text{ hosts}
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b)

Distribuição de Endereços:

R2:

- 128.20.227.0/22
- 128.20.228.0/22
- 128.20.232.0/23
- 128.20.234.0/23

R3:

- 128.20.236.0/24
- 128.20.237.0/24
- 128.20.238.0/24
- 128.20.239.0/26
- 128.20.239.64/26

R1:

- 128.20.239.128/26 (128.20.239.190)

Tabela R1:

Endereço: Interface saída:

0.0.0.0/0 e7 128.20.239.128/26 e8

128.20.224.0/22 e1 128.20.228.0/22 e1 128.20.232.0/23 e1 128.20.234.0/23 e1

128.20.236.0/24 e6 128.20.237.0/24 e6 128.20.238.0/24 e6 128.20.239.0/26 e6 128.20.239.64/26 e6

Tabela R2 c/ agregação:

Endereço: Interface Saida:

0.0.0.0/0 e7 128.20.239.128/26 e8

128.20.224.0/20 e1

128.20.236.0/22 e6