

Atividade de Aula 02

1. Máscaras, Grupos e Interfaces

Prefixo	Máscara	Nº de sub-redes possíveis (grupos).	Nº de interfaces (hosts) disponíveis em cada rede.
/16	255.255.0.0	1	65.534
/17	255.255.128.0	2	32.766
/18	255.255.192.0	4	16.382
/19	255.255.224.0	8	8.190
/20	255.255.240.0	16	4.094
/21	255.255.248.0	32	2.046
/22	255.255.252.0	64	1.022
/23	255.255.254.0	128	510
/24	255.255.255.0	256	254
/25	255.255.255.128	512	126
/26	255.255.255.192	1.024	62
/27	255.255.255.224	2.048	30
/28	255.255.255.240	4.096	14
/29	255.255.255.248	8.192	6
/30	255.255.255.252	16.384	2

2. Sub-redes /24 até /30

/24 (1 sub-rede)

salto = 256

#	Rede	Broadcast	1ª interface	Última interface
1	192.168.0.0/24	192.168.0.255	192.168.0.1	192.168.0.254

/25 (2 sub-redes)

salto = 128

#	Rede	Broadcast	1ª interface	Última interface
1	192.168.0.0/25	192.168.0.127	192.168.0.1	192.168.0.126
2	192.168.0.128/25	192.168.0.255	192.168.0.129	192.168.0.254

/26 (4 sub-redes)

salto = 64

#	Rede	Broadcast	1ª interface	Última interface
1	192.168.0.0/26	192.168.0.63	192.168.0.1	192.168.0.62
2	192.168.0.64/26	192.168.0.127	192.168.0.65	192.168.0.126
3	192.168.0.128/26	192.168.0.191	192.168.0.129	192.168.0.190
4	192.168.0.192/26	192.168.0.255	192.168.0.193	192.168.0.254

/27 (8 sub-redes)

salto = 32

#	Rede	Broadcast	1ª interface	Última interface
1	192.168.0.0/27	192.168.0.31	192.168.0.1	192.168.0.30
2	192.168.0.32/27	192.168.0.63	192.168.0.33	192.168.0.62
3	192.168.0.64/27	192.168.0.95	192.168.0.65	192.168.0.94
4	192.168.0.96/27	192.168.0.127	192.168.0.97	192.168.0.126
5	192.168.0.128/27	192.168.0.159	192.168.0.129	192.168.0.158
6	192.168.0.160/27	192.168.0.191	192.168.0.161	192.168.0.190
7	192.168.0.192/27	192.168.0.223	192.168.0.193	192.168.0.222
8	192.168.0.224/27	192.168.0.255	192.168.0.225	192.168.0.254

/28 (16 sub-redes)

salto = 16

#	Rede	Broadcast	1ª interface	Última interface
1	192.168.0.0/28	192.168.0.15	192.168.0.1	192.168.0.14
2	192.168.0.16/28	192.168.0.31	192.168.0.17	192.168.0.30
3	192.168.0.32/28	192.168.0.47	192.168.0.33	192.168.0.46
4	192.168.0.48/28	192.168.0.63	192.168.0.49	192.168.0.62
5	192.168.0.64/28	192.168.0.79	192.168.0.65	192.168.0.78
6	192.168.0.80/28	192.168.0.95	192.168.0.81	192.168.0.94
7	192.168.0.96/28	192.168.0.111	192.168.0.97	192.168.0.110
8	192.168.0.112/28	192.168.0.127	192.168.0.113	192.168.0.126

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/29 (32 sub-redes)

salto = 8

#	Rede	Broadcast	1ª interface	Última interface
1	192.168.0.0/29	192.168.0.7	192.168.0.1	192.168.0.6
2	192.168.0.8/29	192.168.0.15	192.168.0.9	192.168.0.14
3	192.168.0.16/29	192.168.0.23	192.168.0.17	192.168.0.22
4	192.168.0.24/29	192.168.0.31	192.168.0.25	192.168.0.30
5	192.168.0.32/29	192.168.0.39	192.168.0.33	192.168.0.38
6	192.168.0.40/29	192.168.0.47	192.168.0.41	192.168.0.46
7	192.168.0.48/29	192.168.0.55	192.168.0.49	192.168.0.54
8	192.168.0.56/29	192.168.0.63	192.168.0.57	192.168.0.62

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/30 (64 sub-redes)

salto = 4

#	Rede	Broadcast	1ª interface	Última interface
1	192.168.0.0/30	192.168.0.3	192.168.0.1	192.168.0.2
2	192.168.0.4/30	192.168.0.7	192.168.0.5	192.168.0.6
3	192.168.0.8/30	192.168.0.11	192.168.0.9	192.168.0.10
4	192.168.0.12/30	192.168.0.15	192.168.0.13	192.168.0.14

#	Rede	Broadcast	1ª interface	Última interface
5	192.168.0.16/30	192.168.0.19	192.168.0.17	192.168.0.18
6	192.168.0.20/30	192.168.0.23	192.168.0.21	192.168.0.22
7	192.168.0.24/30	192.168.0.27	192.168.0.25	192.168.0.26
8	192.168.0.28/30	192.168.0.31	192.168.0.29	192.168.0.30

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