

			IP	Mask	
EJERCICIO 1			140.35.0.0/17	255.255.192.0	
Hosts	IP Segmento	Mask CIDR	Máscara en decimal	Rango utilizable	IP Difusión
115	140.35.0.0	25	255.255.255.128	140.35.1 - 140.35.0.126	140.35.0.127
80	140.35.0.128	25	255.255.255.128	140.35.0.129 - 140.35.0.254	140.35.0.255
63	140.35.1.0	26	255.255.255.192	140.35.1.1 - 140.35.1.62	140.35.1.63
45	140.35.1.64	26	255.255.255.192	140.35.1.65 - 140.35.1.126	140.35.1.127
15	140.35.1.128	28	255.255.255.240	140.35.1.129 - 140.35.1.142	140.35.1.143
2	140.35.1.144	30	255.255.255.252	140.35.1.145 - 140.35.1.146	140.35.1.147
2	140.35.1.148	30	255.255.255.252	140.35.1.149 - 140.35.1.150	140.35.1.151

140.35.	128	64	32	16	8	4	2	1	128	64	32	16	8	4	2	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Hosts	115 ->	7 bits
		IP Seg. 140.35.0.0/25
		IP Dif. 140.35.0.127
		Rango: 140.35.1 - 140.35.0.126
		Mask: 255.255.255.128

140.35.	128	64	32	16	8	4	2	1	128	64	32	16	8	4	2	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
									1							

Hosts	80 ->	7 bits																	
		IP Seg.	140.35.0.128/25																
		IP Dif.	140.35.0.255																
		Rango:	140.35.0.129 - 140.35.0.254																
		Mask:	255.255.255.128																
	128	64	32	16	8	4	2	1		128	64	32	16	8	4	2	1		
140.35.	0	0	0	0	0	0	0	0	.	0	0	0	0	0	0	0	0		
								1											

Hosts	63 ->	6 bits	
		IP Seg.	140.35.1.0/26
		IP Dif.	140.35.1.63
		Rango:	140.35.1.1 - 140.35.1.62
		Mask:	255.255.255.192

	128	64	32	16	8	4	2	1		128	64	32	16	8	4	2	1
140.35.	0	0	0	0	0	0	0	1	.	0	0	0	0	0	0	0	0
											1						

Hosts	45 ->	6 bits	
		IP Seg.	140.35.1.64/26
		IP Dif.	140.35.1.127
		Rango:	140.35.1.65 - 140.35.1.126
		Mask:	255.255.255.192

	128	64	32	16	8	4	2	1		128	64	32	16	8	4	2	1
140.35.	0	0	0	0	0	0	0	1	.	0	0	0	0	0	0	0	0
											1						

Hosts	15 ->	4 bits	
		IP Seg.	140.35.1.128/28
		IP Dif.	140.35.1.143
		Rango:	140.35.1.129 - 140.35.1.142
		Mask:	255.255.255.240

	128	64	32	16	8	4	2	1		128	64	32	16	8	4	2	1
140.35.	0	0	0	0	0	0	0	1	.	1	0	0	0	0	0	0	0
													1				

Hosts	2 ->	2 bits	
		IP Seg.	140.35.1.144/30
		IP Dif.	140.35.1.147
		Rango:	140.35.1.145 - 140.35.1.146
		Mask:	255.255.255.252

	128	64	32	16	8	4	2	1		128	64	32	16	8	4	2	1
140.35.	0	0	0	0	0	0	0	1	.	1	0	0	1	0	0	0	0
															1		

Hosts	2 ->	2 bits	
		IP Seg.	140.35.1.148/30
		IP Dif.	140.35.1.151
		Rango:	140.35.1.149 - 140.35.1.150
		Mask:	255.255.255.252

Hosts	35 ->	6 bits	
		IP Seg.	125.0.4.0/26
		IP Dif.	125.0.4.63
		Rango:	125.4.1 - 125.0.4.62
		Mask:	255.255.255.192

	128	64	32	16	8	4	2	1	128	64	32	16	8	4	2	1	128	64	32	16	8	4	2	1
125	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
																	1							

Hosts	2 ->	2 bits	
		IP Seg.	125.0.4.68/30
		IP Dif.	125.0.4.71
		Rango:	125.0.4.69 - 125.0.4.70
		Mask:	255.255.255.252

EJERCICIO 3		128.192.0.0/12	255.248.0.0	
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Hosts	IP Segmento	Mask CIDR	Máscara en decimal	Rango utilizable	IP Difusión
1550	128.192.0.0	21	255.255.248.0	128.192.0.1 - 128.192.7.254	128.192.7.255
710	128.192.8.0	22	255.255.252.0	128.192.8.1 - 128.192.11.254	128.192.11.255
500	128.192.12.0	23	255.255.254.0	128.192.12.1 - 128.192.13.254	128.192.13.255
100	128.192.14.0	25	255.255.255.128	128.192.14.1 - 128.192.14.126	128.192.14.127
50	128.192.14.128	26	255.255.255.192	128.192.14.129 - 128.192.14.190	128.192.14.191
2	128.192.14.192	30	255.255.255.252	128.192.14.193 - 128.192.14.194	128.192.14.195

[illegible]

Hosts	1550 ->	11 bits	
		IP Seg.	128.192.0.0/21
		IP Dif.	128.192.7.255
		Rango:	128.192.0.1 - 128.192.7.254
		Mask:	255.255.248.0

Máscara

Nueva Máscara

Hosts

Nuevo Bit

[illegible]

Hosts	710 ->	10 bits	
		IP Seg.	128.192.8.0/22
		IP Dif.	128.192.11.255
		Rango:	128.192.8.1 - 128.192.11.254
		Mask:	255.255.252.0

[illegible]

Hosts	500 ->	9 bits	
		IP Seg.	128.192.12.0/23
		IP Dif.	128.192.13.255
		Rango:	128.192.12.1 - 128.192.13.254
		Mask:	255.255.254.0

[illegible]

Hosts	100 ->	7 bits	
		IP Seg.	128.192.14.0/25
		IP Dif.	128.192.14.127
		Rango:	128.192.14.1 - 128.192.14.126
		Mask:	255.255.255.128

		128	64	32	16	8	4	2	1		128	64	32	16	8	4	2	1		128	64	32	16	8	4	2	1
128	.	1	1	0	0	0	0	0	0	.	0	0	0	0	1	1	1	0	.	0	0	0	0	0	0	0	0
																				1							

Hosts	50 ->	6 bits	
		IP Seg.	128.192.14.128/26
		IP Dif.	128.192.14.191
		Rango:	128.192.14.129 - 128.192.14.190
		Mask:	255.255.255.192

		128	64	32	16	8	4	2	1		128	64	32	16	8	4	2	1		128	64	32	16	8	4	2	1
128	.	1	1	0	0	0	0	0	0	.	0	0	0	0	1	1	1	0	.	1	0	0	0	0	0	0	0
																				1							

Hosts	2 ->	2 bits	
		IP Seg.	128.192.14.192/30
		IP Dif.	128.192.14.195
		Rango:	128.192.14.193 - 128.192.14.194
		Mask:	255.255.255.252