Universidad de Costa Rica

Facultad de Ingeniería

Escuela de Ciencias de la Computación e Informática

Redes de comunicación de datos

Tarea 6

Subnetting homework

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Subnetting homework

Assigned network: 192.168.24.0

Host address requests:

- 16 addresses for range A
- 127 addresses for range B
- 30 addresses for range C
- 15 addresses for range D
- 63 addresses for range E
- 7 addresses for range F

Task: ordering requests from bigger to lower, and assigning IP addresses from lower to higher, divide the original set to satisfy all requests.

Rango	Hosts req.	Bloque mínimo	CIDR	Direcciones totales	Usables	Rango de direc.
В	127	$2^7 = 128$	/25	.0 – .127	126 (.1 – .126)	192.168.24.0/25
Е	63	$2^6 = 64$	/26	.128 – .191	62 (.129 – .190)	192.168.24.128/26
С	30	$2^5 = 32$	/27	.192 – .223	30 (.193 – .222)	192.168.24.192/27
A	16	$2^4 = 16$	/28	.224 – .239	14 (.225 – .238)	192.168.24.224/28
D	15	$2^4 = 16$	/28	.240 – .255	14 (.241 – .254)	192.168.24.240/28
F	7	$2^3 = 8$	/29	25.0 – 25.7	6 (.25.1–.25.6)	192.168.25.0 /29