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TUGAS

Sebuah perusahaan swasta memiliki 5 divisi yang masing :
- Divisi HRD membutuhkan 9 user
- Divisi Marketing membutuhkan 60 user
- Divisi Financial membutuhkan 12 User
- Divisi Teknisi Gangguan membutuhkan 100 User
- Divisi Operator dan Administrasi membutuhkan 30 User

Diberikan alamat network 192.168.1.0 /24
Desainlah IP Address jaringan tersebut dengan menggunakan metode VLSM

JAWABAN

=> Dari kelima user diurutkan dari terbanyak / terbesar

1.	Teknisi Gangguan	100 User
2.	Marketing	60 User
3.	Operator dan Administrasi	30 User
4.	Financial	12 User
5.	HRD	9 User

=> Alamat network 192.168.1.0 /24

=> Menentukan Jumlah Host per Subnet

1. TG → 100 = /25 = 2^7 → 10000000 = 128 - 2 = 126
2. M → 60 = /26 = 2^6 → 11000000 = 64 - 2 = 62
3. OA → 30 = /27 = 2^5 → 11100000 = 32 - 2 = 30
4. F → 12 = /28 = 2^4 → 11110000 = 16 - 2 = 14
5. HRD → 9 = /28 = 2^4 → 11110000 = 16 - 2 = 14

=> Dicari Satu - Satu :

Alamat network → 192.168.1.0/24

a. 100 User → /25 = 128

Subnet = 192.168.1.0 / 25

Range = Host Pertama — Host terakhir

192.168.1.1 - 192.168.1.126

Broadcast = 192.168.1.127

b. 60 user → / 26 = 64

Subnet - 192.168.1.128 / 26

Range = Host Pertama - Host terakhir

192.168.1.129 - 192.168.1.190

Broadcast = 192.168.1.191

c. 30 user → /27 = 32

Subnet = 192.168.1.192/27

Range = Host Pertama - Host terakhir

= 192.168.1.193 - 192.168.1.222

Broadcast - 192.168.1.223

d. 12 user → / 28 - 16

Subnet = 192.168.1.224 /28

Range = Host pertama - Host Terakhir

192.168.1.225 - 192.168.1.238

Broadcast = 192.168.1.239

e. 9 User → /28 = 16

Subnet = 192.168.1.240 /28

Range = Host Pertama - Host terakhir

192.168.1.241 - 192.168.1.254

Broadcast = 192.168.1.255

Tabel

	TS (100)	Mrktg (60)	OA (30)	F (12)	HRD (9)
Network / Subnet	192.168.1.0	192.168.1.128	192.168.1.192	192.168.1.224	192.168.1.240
Host Pertama	192.168.1.1	192.168.1.129	192.168.1.193	192.168.1.225	192.168.1.241
Host Terakhir	192.168.1.126	192.168.1.190	192.168.1.222	192.168.1.238	192.168.1.254
Broadcast	192.168.1.127	192.168.1.191	192.168.1.223	192.168.1.239	192.168.1.255