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Mata kuliah : Praktikum Jaringan Komputer

Carilah jumlah subnet, jumlah host per subnet, blok subnet, alamat host dan broadcast yang valid darinetwork address sebagai berikut :

Network Address Kelas C: 192.168.30.0/29
Subnet Mask : 255.255 255.248/29 berarti 11111111.11111111.11111111.11111000

$$2^x = 2^5$$
$$= 32$$
$$2^y-2 = 2^3-2$$
$$= 8-2$$
$$= 6$$

SUBNET	HOST PERTAMA	HOST TERAKHIR	BROADCAST
192.168.30.0	192.168.30.1	192.168.30.6	192.168.30.7
192.168.30.8	192.168.30.9	192.168.30.14	192.168.30.15
192.168.30.16	192.168.30.17	192.168.30.22	192.168.30.23
192.168.30.24	192.168.30.25	192.168.30.30	192.168.30.31
192.168.30.32	192.168.30.33	192.168.30.38	192.168.30.39
192.168.30.40	192.168.30.41	192.168.30.46	192.168.30.47
192.168.30.48	192.168.30.49	192.168.30.54	192.168.30.55
192.168.30.56	192.168.30.57	192.168.30.62	192.168.30.63
192.168.30.64	192.168.30.65	192.168.30.70	192.168.30.71
192.168.30.72	192.168.30.73	192.168.30.78	192.168.30.79
192.168.30.80	192.168.30.81	192.168.30.86	192.168.30.87
192.168.30.88	192.168.30.89	192.168.30.94	192.168.30.95
192.168.30.96	192.168.30.97	192.168.30.102	192.168.30.103
192.168.30.104	192.168.30.105	192.168.30.110	192.168.30.111
192.168.30.112	192.168.30.113	192.168.30.118	192.168.30.119
192.168.30.120	192.168.30.121	192.168.30.126	192.168.30.127
192.168.30.128	192.168.30.129	192.168.30.134	192.168.30.135
192.168.30.136	192.168.30.137	192.168.30.142	192.168.30.143
192.168.30.144	192.168.30.145	192.168.30.150	192.168.30.151
192.168.30.152	192.168.30.153	192.168.30.158	192.168.30.159
192.168.30.160	192.168.30.161	192.168.30.166	192.168.30.167

192.168.30.168	192.168.30.169	192.168.30.174	192.168.30.175
192.168.30.176	192.168.30.177	192.168.30.182	192.168.30.183
192.168.30.184	192.168.30.185	192.168.30.190	192.168.30.191
192.168.30.192	192.168.30.193	192.168.30.198	192.168.30.199
192.168.30.200	192.168.30.201	192.168.30.206	192.168.30.207
192.168.30.208	192.168.30.209	192.168.30.214	192.168.30.215
192.168.30.216	192.168.30.217	192.168.30.222	192.168.30.223
192.168.30.224	192.168.30.225	192.168.30.230	192.168.30.231
192.168.30.232	192.168.30.233	192.168.30.238	192.168.30.239
192.168.30.240	192.168.30.241	192.168.30.246	192.168.30.247
192.168.30.248	192.168.30.249	192.168.30.254	192.168.30.255

Network Address Kelas B: 172.16.0.0/20
Subnet Mask : 255.255.240.0/20 berarti
11111111.11111111.11110000.00000000 2^x = 2^4

$= 16$

$2^y-2 = 2^{12}-2$

$= 4096-2$

$= 4094$

SUBNET	HOST PERTAMA	HOST TERAKHIR	BROADCAST
172.16.0.0	172.16.0.1	172.16.15.254	172.16.15.255
172.16.16.0	172.16.16.1	172.16.31.254	172.16.31.255
172.16.32.0	172.16.32.1	172.16.47.254	172.16.47.255
172.16.48.0	172.16.48.1	172.16.63.254	172.16.63.255
172.16.64.0	172.16.64.1	172.16.79.254	172.16.79.255
172.16.80.0	172.16.80.1	172.16.95.254	172.16.95.255
172.16.96.0	172.16.96.1	172.16.111.254	172.16.111.255
172.16.112.0	172.16.112.1	172.16.127.254	172.16.127.255
172.16.128.0	172.16.128.1	172.16.143.254	172.16.143.255
172.16.144.0	172.16.144.1	172.16.159.254	172.16.159.255
172.16.160.0	172.16.160.1	172.16.175.254	172.16.175.255
172.16.176.0	172.16.176.1	172.16.191.254	172.16.191.255
172.16.192.0	172.16.192.1	172.16.207.254	172.16.207.255
172.16.208.0	172.16.208.1	172.16.223.254	172.16.223.255

172.16.224.0	172.16.224.1	172.16.239.254	172.16.239.255
172.16.240.0	172.16.240.1	172.16.255.254	172.16.255.255

Network Address Kelas A: 10.0.0.0/10

Subnet Mask : 255.255.240.0/20 berarti

$11111111.11000000.00000000.00000000 \quad 2^x = 2^2$

$\qquad = 4$

$2^y - 2 = 2^{22} - 2$

$\qquad = 4194304 - 2$

$\qquad = 4194302$

SUBNET	HOST PERTAMA	HOST TERAKHIR	BROADCAST
10.0.0.0	10.0.0.1	10.63.255.254	10.63.255.255
10.64.0.0	10.64.0.1	10.127.255.254	10.127.255.255
10.128.0.0	10.128.0.1	10.191.255.254	10.191.255.255
10.192.0.0	10.192.0.1	10.255.255.254	10.255.255.255