

Tugas Praktikum Komunikasi Data dan Jaringan Komputer

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Kelas: C

1. Subnetting apa yang terjadi pada IP Address 192.168.1.0/25?

- Subnet Mask: 11111111.11111111.11111111.10000000 atau 255.255.255.128
- Jumlah Subnet: $2^1 = 2$
- Jumlah Host per Subnet: $2^7 - 2 = 128 - 2 = 126$
- Block Subnet: $256 - z = 256 - 128 = 128$
- Block Subnet Valid: 0 dan 128
- Jadi di dapatkanlah Subnet, Host Address dan Broadcast Address:

Subnet	IP Valid (IP Awal - IP Akhir)	Broadcast
192.168.1.0	192.168.1.1 - 192.168.1.126	192.168.1.127
192.168.1.128	192.168.1.129 - 192.168.1.254	192.168.1.255

2. Subnetting apa yang terjadi pada IP Address 192.168.1.0/29 ?

- Subnet Mask: 11111111.11111111.11111111.11111000 atau 255.255.255.248
- Jumlah Subnet: $2^5 = 32$
- Jumlah Host per Subnet: $2^3 - 2 = 8 - 2 = 6$
- Block Subnet: $256 - z = 256 - 248 = 8$
- Block Subnet Valid: 0, 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96, 104, 112, 120, 128, 136, 144, 152, 160, 168, 176, 184, 192, 200, 208, 216, 224, 232, 240, dan 248
- Jadi di dapatkanlah Subnet, Host Address dan Broadcast Address:

Subnet	IP Valid (IP Awal - IP Akhir)	Broadcast
192.168.1.0	192.168.1.1 - 192.168.1.6	192.168.1.7
192.168.1.8	192.168.1.9 - 192.168.1.14	192.168.1.15
192.168.1.16	192.168.1.17 - 192.168.1.22	192.168.1.23
192.168.1.24	192.168.1.25 - 192.168.1.30	192.168.1.31
192.168.1.32	192.168.1.33 - 192.168.1.38	192.168.1.39
192.168.1.40	192.168.1.41 - 192.168.1.46	192.168.1.47
192.168.1.48	192.168.1.49 - 192.168.1.54	192.168.1.55
192.168.1.56	192.168.1.57 - 192.168.1.62	192.168.1.63
192.168.1.64	192.168.1.65 - 192.168.1.70	192.168.1.71
192.168.1.72	192.168.1.73 - 192.168.1.78	192.168.1.79
192.168.1.80	192.168.1.81 - 192.168.1.86	192.168.1.87
192.168.1.88	192.168.1.89 - 192.168.1.94	192.168.1.95
192.168.1.96	192.168.1.97 - 192.168.1.102	192.168.1.103
192.168.1.104	192.168.1.105 - 192.168.1.110	192.168.1.111
192.168.1.112	192.168.1.113 - 192.168.1.118	192.168.1.119

192.168.1.120	192.168.1.121 - 192.168.1.126	192.168.1.127
192.168.1.128	192.168.1.129 - 192.168.1.134	192.168.1.135
192.168.1.136	192.168.1.137 - 192.168.1.142	192.168.1.143
192.168.1.144	192.168.1.145 - 192.168.1.150	192.168.1.151
192.168.1.152	192.168.1.153 - 192.168.1.158	192.168.1.159
192.168.1.160	192.168.1.161 - 192.168.1.166	192.168.1.167
192.168.1.168	192.168.1.169 - 192.168.1.174	192.168.1.175
192.168.1.176	192.168.1.177 - 192.168.1.182	192.168.1.183
192.168.1.184	192.168.1.185 - 192.168.1.190	192.168.1.191
192.168.1.192	192.168.1.193 - 192.168.1.198	192.168.1.199
192.168.1.200	192.168.1.201 - 192.168.1.206	192.168.1.207
192.168.1.208	192.168.1.209 - 192.168.1.214	192.168.1.215
192.168.1.216	192.168.1.217 - 192.168.1.222	192.168.1.223
192.168.1.224	192.168.1.225 - 192.168.1.230	192.168.1.231
192.168.1.232	192.168.1.233 - 192.168.1.238	192.168.1.239
192.168.1.240	192.168.1.241 - 192.168.1.246	192.168.1.247
192.168.1.248	192.168.1.249 - 192.168.1.254	192.168.1.255