

Subnetting Lab

- 0) Given IP address and a mask: 35.94.88.134 / 28
- 1/28 - Borrowing 4 bits \rightarrow 16 subnets (2^4)
- each supports 14 hosts, 1 for subnet address,
- 1 for Broadcast Address $\rightarrow 2^4 - 2$

For subnet Mask: 255.255.255.240 (/28)

1111 1111 1111 1111 1111 0000
 (240) for host

\Rightarrow we have 16 subnets with 16 addresses

02) Network Address Broadcast Address subnet mask

- 0) 35.94.88.0 - 35.94.88.15 - 0
- 1) 35.94.88.16 - 35.94.88.31 - 1
- 2) 35.94.88.32 - 35.94.88.47 - 2
- 3) 35.94.88.48 - 35.94.88.63 - 3
- 4) 35.94.88.64 - 35.94.88.79 - 4
- 5) 35.94.88.80 - 35.94.88.95 - 5
- 6) 35.94.88.96 - 35.94.88.111 - 6
- 7) 35.94.88.112 - 35.94.88.127 - 7
- 8) 35.94.88.128 - 35.94.88.143 - 8
- 9) 35.94.88.144 - 35.94.88.159 - 9
- 10) 35.94.88.160 - 35.94.88.175 - 10
- 11) 35.94.88.176 - 35.94.88.191 - 11
- 12) 35.94.88.192 - 35.94.88.207 - 12
- 13) 35.94.88.208 - 35.94.88.223 - 13
- 14) 35.94.88.224 - 35.94.88.239 - 14
- 15) 35.94.88.240 - 35.94.88.255 - 15

255.255.255.240

0b) Given IP address 35.94.88.134