

Class A N.H.H.H

Class B N.N.H.H

Class C N.N.N.H

7 departman 7 LAN ~300 Hosts/dep.

148.37.0.0 ---> 1 Network 2^{16} 65356 host

Subnetting

10010100.00100101.00000000.00000000	148.37.0.0
10010100.00100101.00010000.00000000	148.37.16.0
10010100.00100101.00100000.00000000	148.37.32.0
10010100.00100101.00110000.00000000	148.37.48.0
10010100.00100101.01000000.00000000	148.37.64.0
10010100.00100101.01010000.00000000	148.37.80.0
10010100.00100101.01100000.00000000	148.37.96.0
10010100.00100101.01110000.00000000	148.37.112.0

10010100.00100101.10000000.00000000 148.37.128.0
.
.
10010100.00100101.11110000.00000000 148.37.240.0

LAN-1

10010100.00100101.00010000.00000000 148.37.16.0 10
10010100.00100101.00010000.00000001 148.37.16.1
10010100.00100101.00010000.00000010 148.37.16.2
10010100.00100101.00010000.00000011 148.37.16.3
10010100.00100101.00010000.00000100 148.37.16.4
10010100.00100101.00010000.00000101 148.37.16.5
10010100.00100101.00010000.00000110 148.37.16.6
.
.
.
10010100.00100101.00010000.11111111 148.37.16.255
10010100.00100101.00010001.00000000 148.37.17.0
10010100.00100101.00010001.00000001 148.37.17.1

10010100.00100101.00010001.00000010 148.37.17.2
.
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10010100.00100101.00010001.00101101 148.37.17.45
.
.
10010100.00100101.00011111.11111111 148.37.31.255 b/c

LAN-2

10010100.00100101.00100000.00000000 148.37.32.0 10
10010100.00100101.00100000.00000001 148.37.32.1
10010100.00100101.00100000.00000010 148.37.32.2
10010100.00100101.00100000.00000011 148.37.32.3
.
.
10010100.00100101.00100000.11111111 148.37.32.255
10010100.00100101.00100001.00000000 148.37.33.0
10010100.00100101.00100001.00000001 148.37.33.1

.
.
10010100.00100101.00100001.00101101 148.37.33.45
.
10010100.00100101.00101111.11111111 148.37.47.255

148.37.56.25 - 255.255.240.0

Subnet Mask
11111111.11111111.11110000.00000000

10010100.00100101.00111000.00011001 148.37.56.25
11111111.11111111.11110000.00000000 255.255.240.0

10010100.00100101.00110000.00000000 148.37.48.0

CIDR: Classless Inter-Domain Routing

148.37.56.25 /20

Logical AND

T T : T

T F : F

F T : F

F F : F