3) LAN 4 (20 hosts):
H = 5 bits -> 2<sup>5</sup>-2 = 30 hosts
S = 3 bits -> 2<sup>3</sup> = 8 subnets
/mask = N + S = 8+(16+3) = /27 =(255.255.255.224)
Choose any one of the unused subnets such as
10.23.22.160

| Subnet<br>no. | Subnet ID in binary                 | Subnet ID in decimal | Subnet<br>mask | No of<br>hosts per<br>subnet | Network |
|---------------|-------------------------------------|----------------------|----------------|------------------------------|---------|
| 0             | 00001010.00010111.00010110.00000000 | 10.23.22.0           | /25            | 126 hosts                    | LAN2    |
| 1             | 00001010.00010111.00010110.20000000 | 10.23.22.128         | /27            | 30 hosts                     | LAN3    |
| 2             | 00001010.00010111.00010110.00100000 | 10.23.22.160         | /27            | 30 hosts                     | LAN4    |
| 3             | 00001010.00010111.00010110.1000000  | 10.23.22.192         | /27            | 30 hosts                     | unused  |
| 4             | 00001010.00010111.00010110.21100000 | 10.23.22.224         | /27            | 30 hosts                     | unused  |

#### 4) LAN 1 (4 hosts):

H = 3 bits -> 23-2 = 6 hosts

S = 5 bits ->  $2^5 = 32$  subnets

/mask = N + S = 8+(16+5) = /29 =(255.255.255.248)

LAN1 size is smaller than the available networks sizes so we will choose any "unused" subnet and subnet it to smaller size as follows:

Choose 10.23.22.192 and subdivide it into smaller subnets

N = 8 S=21 H=3

00001010.00010111.00010110.000000000

| Subnet<br>no. | Subnet ID in binary                | Subnet ID in decimal | Subnet | No of<br>hosts per<br>subnet | Network |
|---------------|------------------------------------|----------------------|--------|------------------------------|---------|
| 0             | 00001010.00010111.00010110.0000000 | 0 10.23.22.0         | /25    | 126 hosts                    | LAN2    |
| 1             | 00001010.00010111.00010110.2000000 | 0 10.23.22.128       | /27    | 30 hosts                     | LAN3    |
| 2             | 00001010.00010111.00010110.2010000 | 0 10.23.22.160       | /27    | 30 hosts                     | LAN4    |
| 3             | 00001010.00010111.00010110.2100000 | 0 10.23.22.192       | /29    | 6 hosts                      | LAN1    |
| 4             | 00001010.00010111.00010110.5100100 | 0 10.23.22.200       | /29    | 6 hosts                      | unused  |
| 5             | 00001010.00010111.00010110.2101000 | 0 10.23.22.208       | /29    | 6 hosts                      | unused  |
| 6             | 00001010.00010111.00010110.2101100 | 0 10.23.22.216       | /29    | 6 hosts                      | unused  |
| 7             | 00001010.00010111.00010110.2110000 | 0 10.23.22.224       | /27    | 30 hosts                     | unused  |

# **Examples Of Subnetting With Answer**

**Todd Lammle** 

#### **Examples Of Subnetting With Answer:**

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