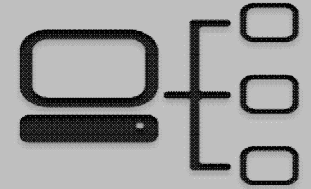


# Class C Example #2



- **Details & Requirements**
  - Network Address: 192.168.1.0
  - Default Subnet Mask: 255.255.255.0
  - Requires 4 Subnets
- **How many host bit do we need to borrow?**
  - 2 host bit,  $2^2 = 4$  Subnets
- **How many addresses hosts per subnet?**
  - 6 host bits left,  $2^6 = 64$  Addresses / Subnet
  - $2^6 - 2 = 62$  Addresses / Subnet
- **What are the valid subnets?**
  - 192.168.1.0, 192.168.1.64, 192.168.1.128, 192.168.1.192
- **New Subnet Mask?**
  - 11111111.11111111.11111111.00000000
  - 255.255.255.192 or /26

Subnet	Network /Subnet Address	Host IP Addresses	Broadcast Address
1	192.168.1.0	1 thru 62	192.168.1.63
2	192.168.1.64	65 thru 126	192.168.1.127
3	192.168.1.128	129 thru 190	192.168.1.191
4	192.168.1.192	193 thru 254	192.168.1.255