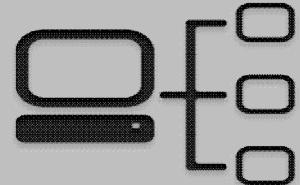


Class C Example #3



- **Details & Requirements**
 - Network Address: 192.168.1.0
 - Default Subnet Mask: 255.255.255.0 or /24
 - Requires 22 hosts / Subnet
- **How many host bit do we need to borrow?**
 - 3 host bits, $2^3 = 8$ Subnets
- **How many addresses hosts per subnet?**
 - 5 host bits left, $2^5 = 32$ Addresses / Subnet
 - $32 - 2 = 30$ Addresses / Subnet
- **What are the valid subnets?**
 - .0, .32, .64, .96..... .224
- **New Subnet Mask?**
 - 11111111.11111111.11111111.11100000
 - 255.255.255.224 or /27

Subnet	Network Address	Host IP Addresses	Broadcast Address
1	192.168.1.0	1 thru 30	192.168.1.31
2	192.168.1.32	33 thru 62	192.168.1.63
3	192.168.1.64	65 thru 94	192.168.1.95
4	192.168.1.96	97 thru 126	192.168.1.127
5	192.168.1.128	129 thru 128	192.168.1.159
6	192.168.1.160	161 thru 190	192.168.1.191
7	192.168.1.192	193 thru 222	192.168.1.223
8	192.168.1.224	225 thru 254	192.168.1.255