

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?**

- 11111111.11111111.11111111.11000000
- 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