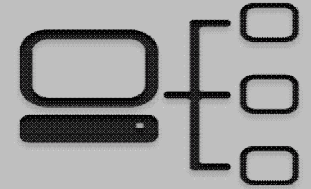


# Class B Example #2



## Details & Requirements

- Network Address: 155.14.0.0
- Default Subnet Mask: 255.255.0.0
- 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?

- 14 host bits left,  $2^{14} = 16,384$  Addresses / Subnet
- $2^{14} - 2 = 16,382$  Addresses / Subnet

## New Subnet Mask?

- 11111111.11111111.11000000.00000000
- 255.255.192.0 or /18

## What are the valid subnets?

- Equation:  $256 - \text{Subnet Mask} = 256 - 192 = 64$
- 0, 64, 128 and 192 in 3<sup>rd</sup> Octet:
- 155.14.0.0, 155.14.64.0, 155.14.128.0, 155.14.192.0

Subnet	Network /Subnet Address	Host IP Addresses	Broadcast Address
1	155.14.0.0	155.14.0.1 to .63.254	155.14.63.255
2	155.14.64.0	155.14.64.1 to .127.254	155.14.127.255
3	155.14.128.0	155.14.128.1 to .191.254	155.14.191.255
4	155.14.192.0	155.14.192.1 to .255.254	155.14.255.255