

The **GOLDEN RULES** for allocating IP numbers

1. All hosts on the same **physical network** must use the **same unique prefix** (*network number*)

10101001 11011110 00010000 0xxxxxxx

2. The remaining part (*host number*) must be different for each host

10101001 11011110 00010001 0xxxxxxx

3. Host numbers of all zeros and all ones are reserved

Network number

10101001 11011110 00010001 00000000

Broadcast address

10101001 11011110 00010001 01111111