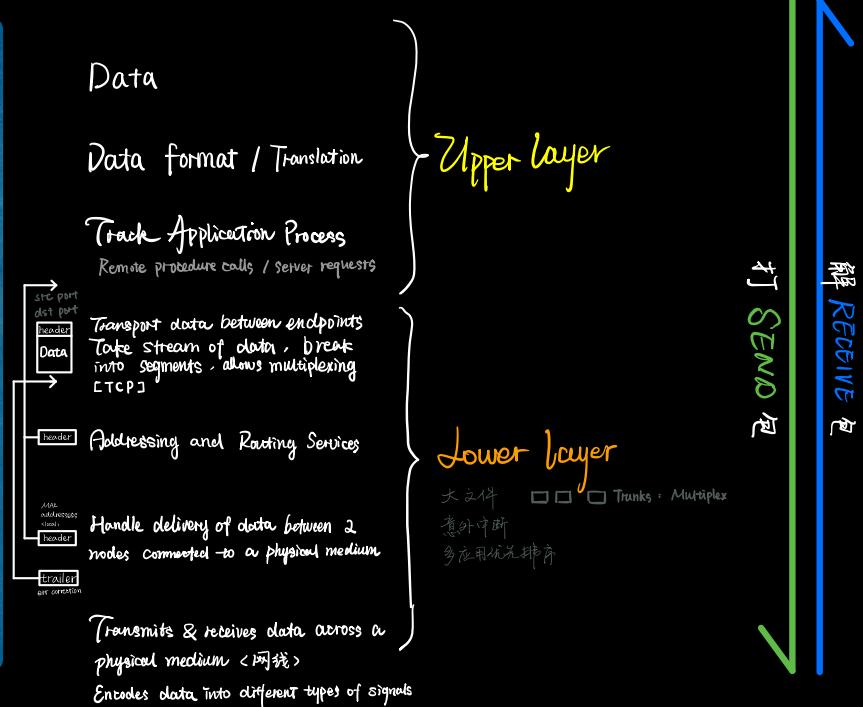
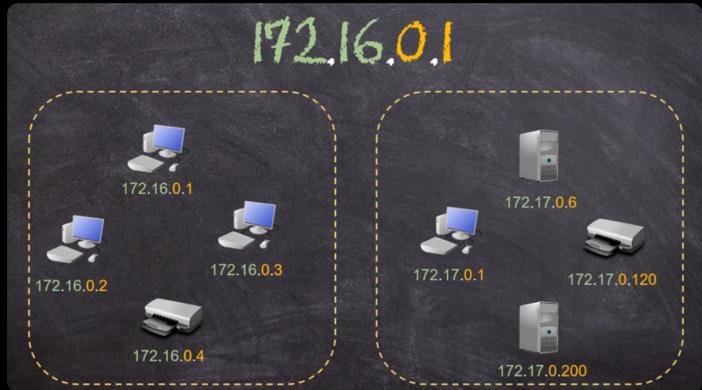
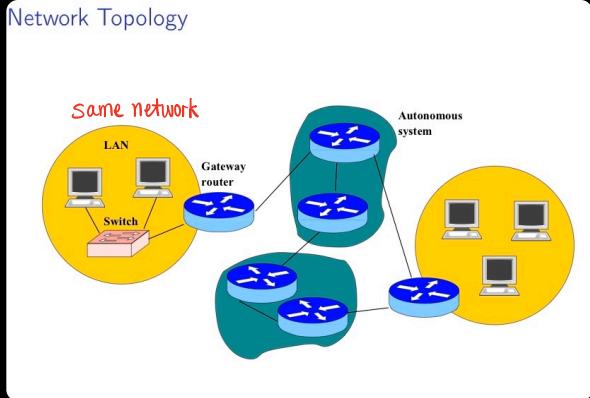


# Open System InterConnect



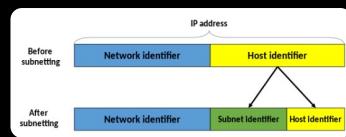
## IP Addresses

Network Topology



Class A	network . host . host . host	Large Networks
Class B	network . network . host . host	Medium Networks
Class C	network . network . network . host	Small Networks
Class D . E	Reserved for special uses	

## Subnet Mask



## CIDR Notation

172.16.1.0 /24  
/24 = 255.255.255.0

1111 1111 1111 1111 1111 1111 0000 0000

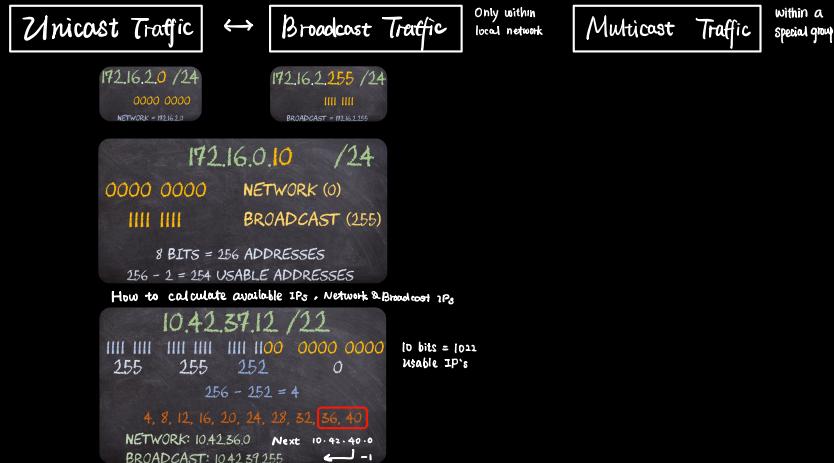
Joining networks is **supernetting**

192.168.0.0 /24 + 192.168.1.0 /24

= 192.168.0.0 /23  
(255.255.254.0)

# VLSM - Variable Length Subnet Mask

create addresses on different lengths



## Assigning Addresses

Static address

Dynamic address < DHCP server >

Automatic Private IP addressing < miss DHCP, random choose >

## IP Headers

