IP

Datagram
- src/dest IP addr
- TTL - time to live
- fragment information

transport

network

mtu
IP addresses

32 bit number

0.0.0.0

ISPs
138.

Subnets
138.234.

Subnet masks
255.255.255.255.
Class A: 8 bit network
   24 bit "host"

Class B: 16 net
   16 host

Class C: 24 net
   8 host

CIDR - classless interdomain routing

200.33.4.0/22
   net host # of bits in net
255.255.255.255 - Broadcast
- every host on subnet
10.---
192.168.--
\{ non-routed \}
DHCP - dynamic host configuration protocol

Client

DHCP Discover (broadcast)

DHCP Offer (broadcast)

IP addr

request

has IP addr.

ACK

DHCP Server

- IP
- subnet mask
- "first hop Router"
- expiration