# Socket RAW programming

### Client

- must handle every field of the datagram
- must send a datagram to the network

### Server

- must handle every field of the datagram
- Must receive a datagram from the network

- when using socket raw
  - the programmer must handle the protocols headers and payload, and any every type of protocol control
  - create and receive link level datagrams or you can filter any protocol level!

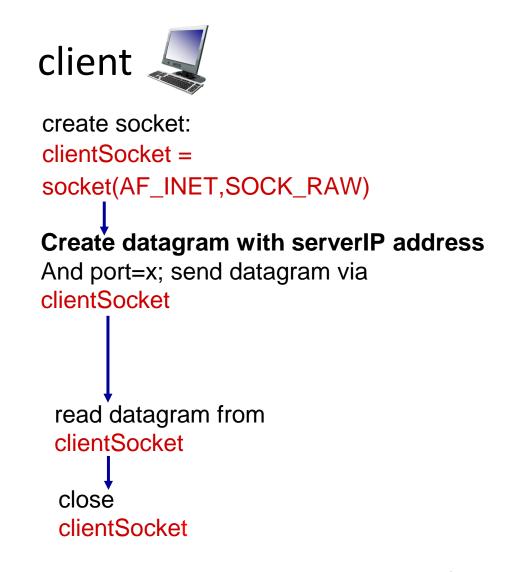
### Application viewpoint

It must be transparent!

## Client/server socket interaction: RAW



```
create socket RAW
serverSocket =
socket(AF_INET,SOCK_RAW)
read datagram from
serverSocket
  write reply to
  serverSocket
   (specifying
  client address,
  port number
  int the
  headers)
```



# Example app: Python RAW client

