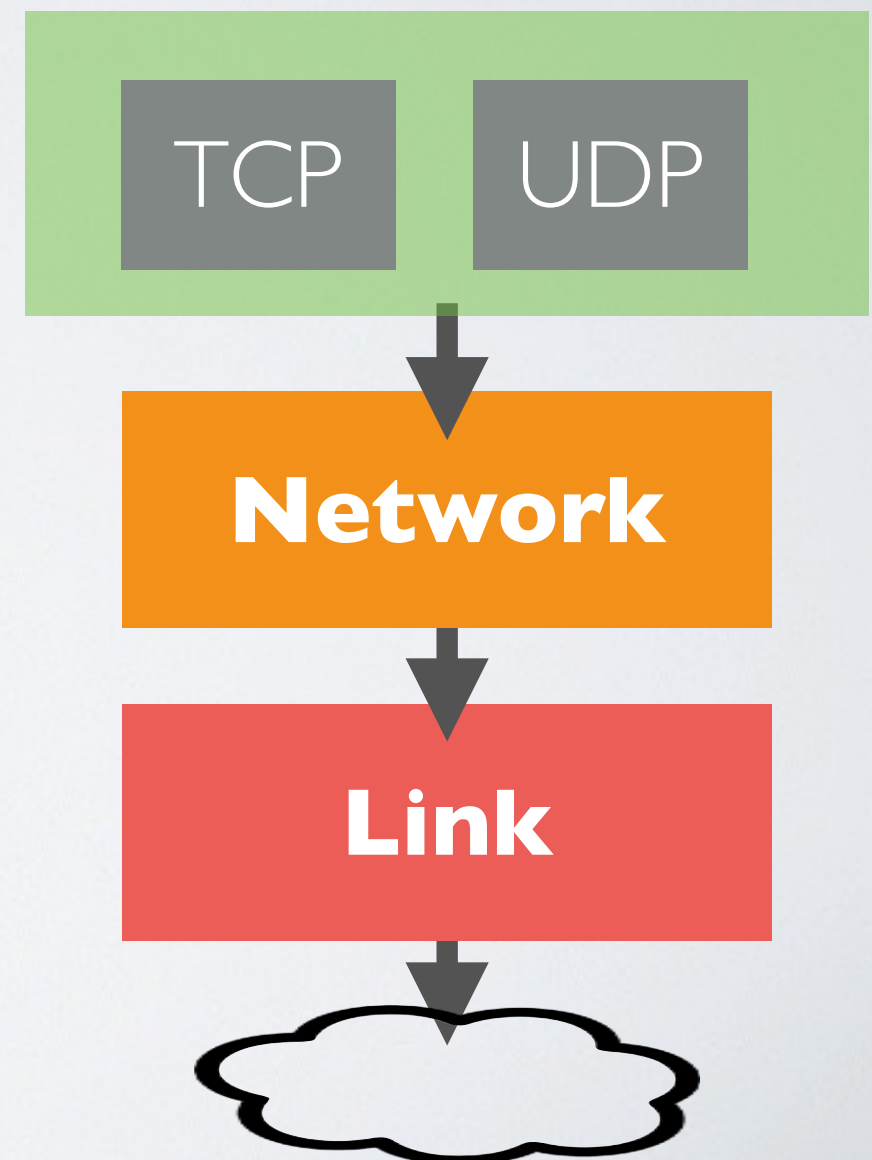


The Transport Layer

Collection of protocols to ensure end-to-end connections

- ➡ Allows hosts to have multiple connections through **ports**
- ➡ Allows messages to be **fragmented** into small IP packets
- ➡ Make sure that all packets are received



TCP - Transmission Control Protocol

- The sender divides data-stream into packets sequence number is attached to every packet
 - The receiver checks for packets errors, reassembles packets in correct order to recreate stream
 - ACK (acknowledgements) are sent when packets are well received and lost/corrupt packets are re-sent
- ➡ Connection state maintained on both ends