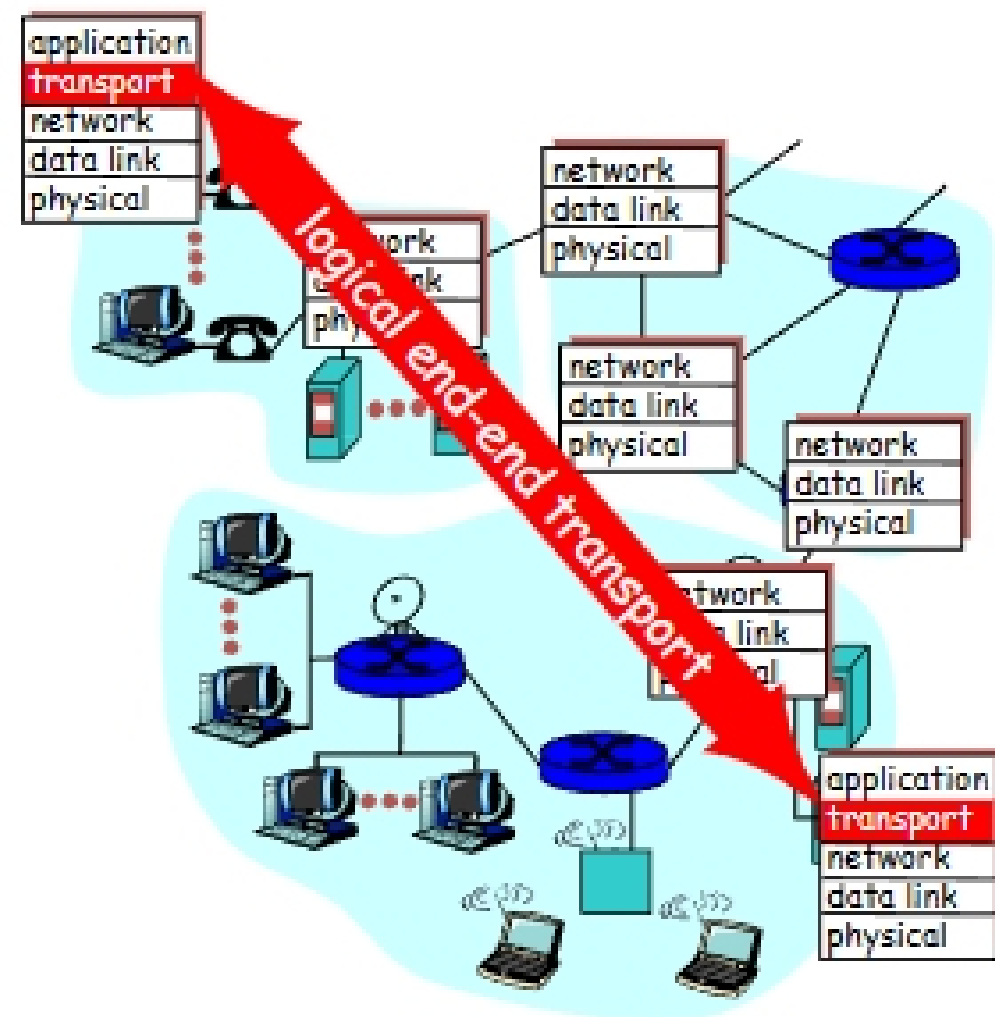


TCP

Transport Layer vs. Network Layer

- Provide *logical communication* between app' processes
- Transport protocols run in end systems
- **Transport vs. network layer services:**
 - *network layer*
 - data transfer between end systems
 - *transport layer*
 - data transfer between processes
 - relies on, enhances, network layer services



Transport Layer Services and Protocols

- r Transport services
 - m multiplexing/demultiplexing
 - m flow control
 - m reliable data transfer
 - m congestion/rate control
- r Transport protocols in the Internet
 - m UDP
 - m TCP