

Lab 8

1. What are the major differences between TCP client and TCP server implementations?

A server listens on a host and a port, receives requests (e.g. through a socket connection), and then sends a response to the client who initiated the socket connection. The client is what sends a request to that server socket, and waits for a response.

2. What are the major differences between UDP server and TCP server implementations?

UDP:

- Used for streaming video, gaming, VoIP, live broadcasts
- Faster and requires fewer resources
- Packets do not necessarily arrive in order
- Allows missing packets; sender cannot know whether a packet has been received

TCP:

- Most widely used protocol on the internet
- TCP guarantees no packets are missing and all data sent makes it to the recipient
- TCP sends packets in order so they can be easily stitched back together
- Slower and requires more resources