

Client Server Application Thomas O'Brien

An exercise in TCP communications via Unix programming

Server

Establishes ownership over an available port on some UNIX based machine Listens for an incoming of TCP request to make a 3 way handshake becoes incoming files and stores them at a given existing directory

Client

Attempts to make a simulated TCP connection with a server
- Utilizes a TCPHeader
struct
Sends encoded files from the
client side to the server side Returns whether or not the
file was sent over
successfully

Technologies

Golang is a powerful systems programming language gaining popularity in modern tech stacks
Unix programming libraries are utilized for lower level

Justification

To develop an
in-depth
understanding of
the TCP/IP stack
Relevant to Site
Reliability/DevOps
Engineering



ThomasObrien@MacBook-Pro-3:[-/client-server-application]: go run unix-server.go | | | ThomasObrien@MacBoo Let's listen | t.go test.txt

ThomasObrien@MacBook-Pro-3:[~/client-server-application]: go run unix-clien t.go test.txt

