

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 the second of t

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 programming
- Justification

To develop an

in-depth

the TCP/IP stack
Relevant to Site
Reliability/DevOps
Engineering

understanding of

ThomasObriem@MacBook-Pro-3:[~/Documents/Stuff/School/SS/Semester_2/CUSI_402/project/client-server-application]: go run unix-client.go hello.to
ThomasObriem@MacBook-Pro-3:[~/Documents/Stuff/School/SS/Semester_2/CUSI_402/project/client-server-application]: cat testingNewFile.txt
hello world!
I'm just testing this out
to see if I can read a file!
ThomasObriem@MacBook-Pro-3:[~/Documents/Stuff/School/SS/Semester_2/CUSI_402/project/client-server-application]:



ThomasObrien@MacBook-Pro-3:[/tmp]:

|ThomasObrien@MacBook-Pro-3:[_/Documents/Stuff/School/SS/Semester_2/CMSI_402/pr |ject/client-server-application]: go run unix-server.go |Let's listen

|Found connection

