

TCP File

Nguyen The Xuan

21/11/2025

1 Protocol Design

Client sends filename, then file content via TCP socket. Server receives and reconstructs the file.

2 System Architecture

Client → Server over TCP using Socket API.

3 Implementation

Server side uses: socket, bind, listen, accept, recv.
Client side uses: socket, connect, send.

```
// Server snippet
recv(new_socket, buffer, BUFFER_SIZE, 0);
```

4 Task Distribution

Client code: Nguyen The Xuan
Server code: Nguyen The Xuan
Report: Nguyen The Xuan

5 Conclusion

We successfully implemented a simple TCP file transfer program using socket programming.