

Objective

Create a network server and client.

Assignment

- Take your assignment 3 and convert it to use the network instead of running just one host.

Program: server

- Run: `./server <ip address> <port>`
- The ip address and port are used to bind the server.

Program: client

- Run: `./client <ip address> <port>`
- The ip address and port are used to connect to the server.

Report

- Your report must follow the format [here](#).

Constraints

- You must use C18.
- Your program must run on **ALL** of Linux, macOS, or FreeBSD.
- Your program must compile with **BOTH** gcc and clang.
- You **MUST** compile with the generated makefile
- **The report must be in PDF form.**

Submission

Use the following directory structure (omit directories that are not needed):

Directory	Purpose
source	Any source code files (if applicable to the assignment)
report	Report files in .pdf format

You must hand in a pax.Z file to the assignment submission folder on Learning Hub (<https://learn.bcit.ca>).

You can hand in as many versions as you like. The last submission, based on the timestamp, will be the one to be marked. **Replace # with the actual version number of your assignment (e.g. 1, 2, 3, etc.).**

```
pax -w source/ report/ -f assign-4-v#.pax  
compress -f assign-4-v#.pax
```

Hand in the resulting assign-4-v#.pax.Z file.

Note: Failure to follow the submission requirements may result in a loss of marks, up to 100%.

Demo Requirements

- You will demonstrate the project in class.

Evaluation

Topic	Value
Design	10
Testing	70
Report	20
Total	100

Suggestions

- [listen/accept example](#)
- [connect example](#)