

Title pls

## I. Server

### A. Listener

1. Listen for incoming connection requests
2. Accept incoming connections
3. Pass connection info into the creation of a new pthread (Agent)
4. Continue for any other connection requests

### B. Agent

1. Allocate structures for client
2. Exchange rkeys and MR addresses with the client
3. Allow client to RW while waiting to receive an operation
  - Disconnect
  - View open MRs
  - Request an open MR's address and key
  - Open or close a client's MR

### C. Interface

1. Set up and create listener thread
2. Perform various server side operations
  - View connected clients
  - Disconnect a specific client
  - Shutdown server after all clients have disconnected
  - Disconnect all clients and immediately shutdown the server

## II. Client

### A. Interface

1. Connect to a server and create the listener thread
2. Perform various operations
  - RDMA read
    - Display data
    - Write data into a file
  - RDMA write inline
  - RDMA write
  - Request more memory on the server
  - Open MR on server for other clients to use
  - Close MR on server from other clients' use
  - View open MRs on the server
  - Request an open MR's address and key

### B. Listener

1. Listens for commands sent from the server
  - Server initiated disconnect