

## Session

- pipe: Pipe
- session\_id: unsigned int
- observers: std::vector<std::shared\_ptr<TLS\_Observer>>
- listen\_thread: std::thread

- listen\_for\_messages(): void
- notify(tls::MessageWrapper): void

- + Session(asio::ip::tcp::socket, unsigned int)
- + ~Session()
- + bool(): operator
- + start(): void
- + send(tls::Message\_Wrapper): void
- + subscribe(TLS\_Observer\_ptr): void
- + unsubscribe(TLS\_Observer\_ptr): void
- + get\_session\_id(): unsigned int

## Pipe

- std::shared\_ptr<asio::ip::tcp::socket>
- delay: unsigned int
- mtx: std::mutex
- open: bool
- send(google::protobuf::Message&): void

- wait\_random(): void
- + Pipe(asio::ip::tcp::socket)
- + ~Pipe()
- + is\_open(): bool
- + send\_message(google::protobuf::Message&): void
- + receive(google::protobuf::Message&): void
- + set\_delay(unsigned int): void