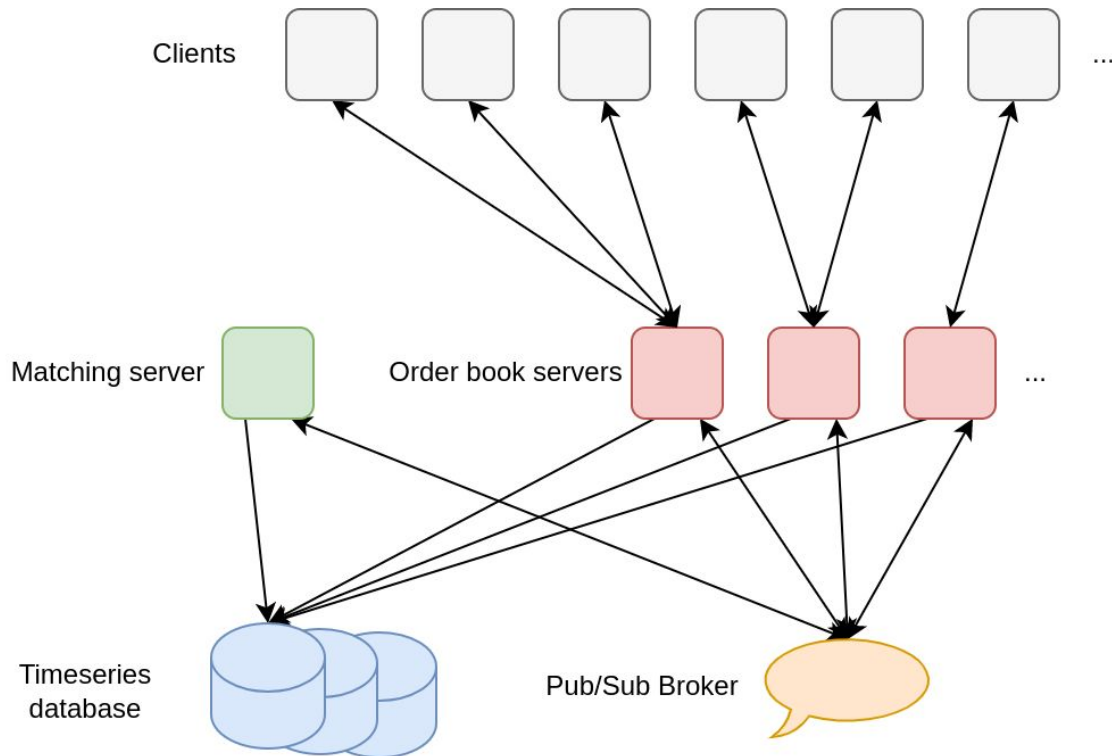


# Bloomberg Exchange

HackaTUM 2022

# Architecture



# Message Broadcasting

- Orders Channel
- Trade Channel
- Order Book Server
  - Subscribes to both channels to forward trades and update the aggregated order book
- Matching Server
  - Subscribes to orders channel only to trigger match checking

# Web Client

## Bloomberg Challenge - HackaTUM 2022

Last update: 7:24:02 PM

Price	Quantity	Total
9	20	180
8	20	160
7	20	140
5	20	100
4	10	40



Logged in as *Tom Böttger*

Market Order

Limit Order

Price

Price

Quantity

Quantity

Buy

Sell

# Server Implementation

- Written in Rust
- Async handling of requests
- Lock free
- WebSockets

# Thank you!

Naman Gupta

Jalil Salame

Theofilos Augoustis

Tom Böttger