

# Specification for PaperTrader

altffour

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# 1 Sepecification

## 1.1 Master Servers

Per instance of the papertrader there should be exactly one master server.

- The master server contains all accounts.
- Calculates stock changes.
- Issues sell and buy of assets
- Keeps track of due sell and buy of assets.
- Has an external API to get values of assets.
- Receive commands from worker servers and choose whether to authorize them or not.
- A secure logging system.
- Only accept commands from worker systems.
- Has an event logging system.
- Manages online worker systems.

## 1.2 Worker Servers

- It Can be deployed as many times as needed.
- MUST be deployed at least once.
- Ability to organize sent commands to the master server with timestamps.
- Routes login information to the master server.