Aia: Backtesting - How it works

During the week

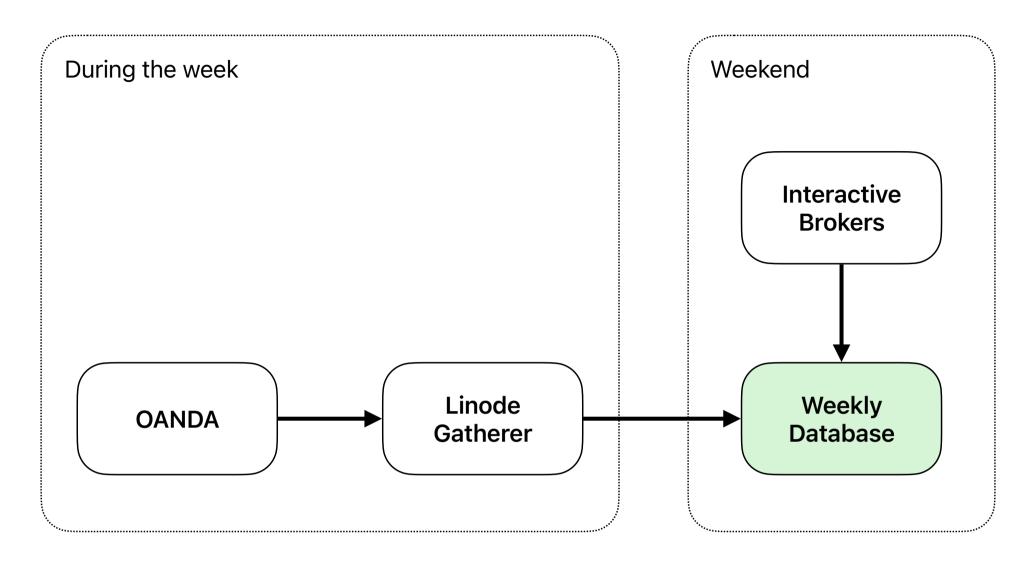OANDA → Linode Gatherer → Weekly Database

Weekend

Interactive Brokers → Weekly Database

Steps
- During the week, a gatherer running on a remote server gathers price data from OANDA for instruments of interest into a database.
- At end of week, Interactive Brokers is queried to get price data for other instruments of interest which are inserted into the database.
- Databases are kept in a vault, one database per week.

Backtesting
- For each week
  - For each instrument
    - For each strategy
      - Run algorithms
      - Generate signals
      - Make decisions
      - Calculate outcomes
    - Compare strategies
  - Compare outcomes
- Tweak strategies for better outcomes

Replay

Weekly Database, Weekly Database, Weekly Database → Instrument, Instrument

Strategy

Instrument → Algorithm / Algorithm → Signal → Decision → Outcome

Outcome ⇢ Strategy