

Quantitative Trading Analyst Technical Test

Business Context :

The startup SmartTrading wants to build an architecture capable of trigger and process options trading alerts in “real time”, so SmartTrading will be capable of run those trades or spread the alerts to customers offering the capability to replicate trades automatically in the customers’ accounts. With the right alerts configuration SmartTrading thinks they can generate thousands or millions of dollars for them and for their customers.

The base architecture should be implemented using the free tier of [TradingView](#) and [AWS](#).

User Stories:

1. As a trading analyst I want to configure one chart/layout in TradingView and create in that layout alerts of BUY CALL, CLOSE CALL, BUY PUT, CLOSE PUT for the market symbols SPY, IWM and QQQ.
2. As a trading analyst I want to connect the alerts to a webhook hosted by AWS API Gateway.
3. As an operational trader I want receive TradingView alerts in an AWS Lambda using python and store the simulated trades in DynamoDB or in a Google Sheet. (Choose the best that fits you)
4. As a trading analyst I want to see the Realized gains in the simulated trades stored.

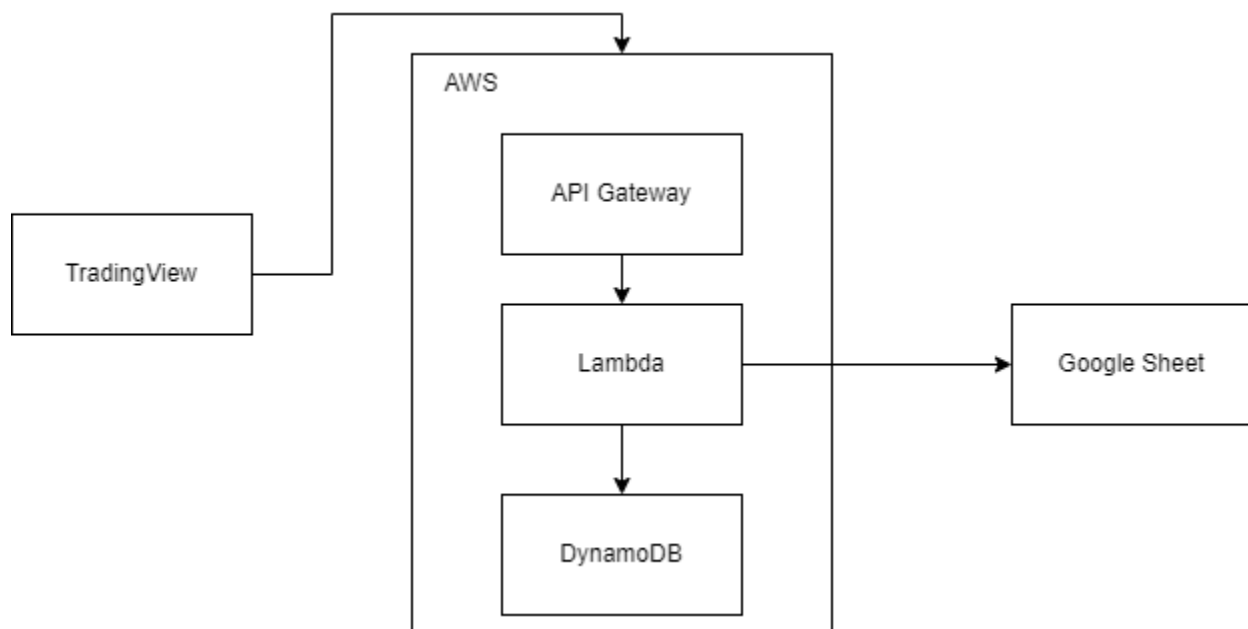


Fig 1. Base Architecture



Fig 2. Sample chart emitting alerts

Deliverables:

1. Link to TradingView chart/layout.
2. Github invite to the python Lambda repository.
3. Postman collection with an example of the TradingView request to the APIGateway.
4. If the trades are stored in Google Sheets, invites to the Google Sheet.
5. Loom video in English describing the problem and the solution with a duration of 5 minutes max.

Evaluation Criteria:

Criteria	Weight
TradingView chart	30%
APIGateway and Lambda	40%
Simulated trades with Realized Gains	30%
Proactive extras	-

Happy coding!