Streaming Data Analysis Using Multi-Cloud Strategy

Ft. r/wallstreetbets

What is Multi-Cloud?

Multi-cloud is a strategy where an organization leverages two or more cloud computing platforms to perform various tasks.



Why Multi-Cloud?



- ✓ Choose best service from each provider
- ✓ Safe alternatives for cloud backup
- ✓ Selective pricing

Multi-Cloud Use Case



Following which stocks Reddit's WallStreetBets crowd is talking about was a tactic that paid off well in 2021 because of GameStop and AMC Entertainment.

We are interested in visualizing popular stocks from WallStreetBets using the latest multi-cloud strategy.



Data Source Multi-Cloud Strategy Azure Stream Analytics Data Transfer Service Google Cloud Data Storage Dashboarding Multi-Cloud Strategy Data Transfer Service

Process Roadmap





Data Source





Reddit API

Extract stock symbols for top trending posts.



Use python script to pull data from the API's and push it to cloud storage

Reddit API

Get: Stock Volume 50 Day Moving Avg 200 Day Moving Avg **Previous day closing price** Daily price for last 30 days

Live Price







Data Storage





Dashboard Overview







Scheduled SQL query to convert event data to a table





Stores the table from Stream Analytics job in a csv file

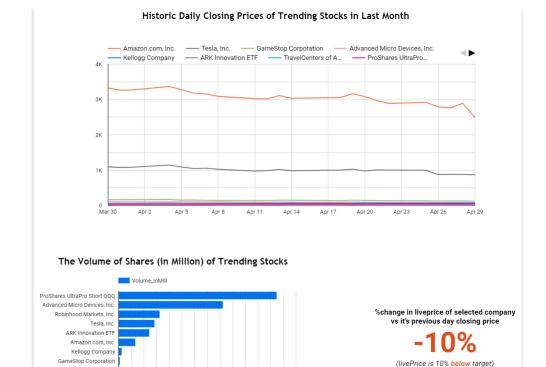


Scheduled data transfer job connects to Azure container

Google Cloud Storage

Files from Azure are stored in Google Cloud storage bucket







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https://youtu.be/iZopl_Rtcwo



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