

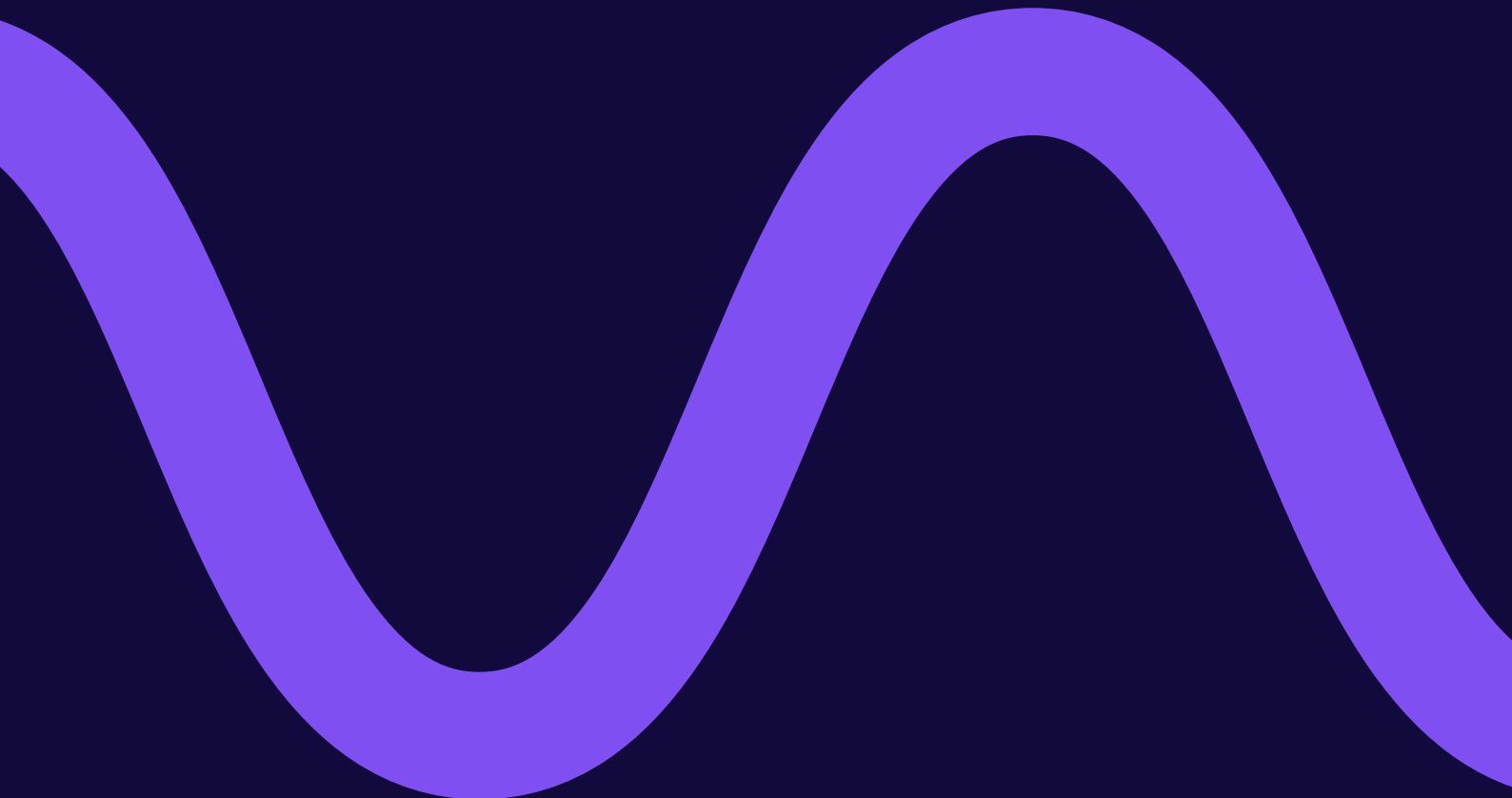
Case Study

Ververica Platform + Fintech Studios

Leveraging the power of stream processing and real-time data to empower a data-driven finance industry of tomorrow.

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Overview

Leveraging the power of stream processing and real-time data to empower a data-driven finance industry of tomorrow.

As a technology-first organization, FinTech Studios leverages Ververica Platform to ingest millions of research, news & regulatory sources in real-time and build an AI-based intelligent search and analytics platform for financial services professionals.



About Fintech Studios

Driving forward continuous delivery pipelines for Flink applications.

FinTech Studios leverages Ververica Platform to move to production with its Kubernetes-native, real time intelligence platform serving the modern financial services sector.

FinTech Studios has developed a revolutionary AI-based intelligent search and analytics platform designed for Wall Street that delivers real-time intelligent search and analytics across millions of sources of business and financial news, blogs, research, market data and big-data analytics in 32 languages.

FinTech Studios' products provide investors, brokers, RIA's, financial advisors, portfolio managers, analysts, bankers, hedge funds, VC firms, private equity firms and corporations with integrated, secure access to intelligent news, research, financial information and big-data analytics at a fraction of the cost of traditional vendors and technology solutions.

“With the help of Ververica Platform we were able to move our Kubernetes-native, continuous delivery pipeline to production and push new features to our technology faster.”

Austin Cawley-Edwards
Senior Engineer at Fintech Studios

Website: <https://fintechstudios.com/>

Industry: Application Software

No. of employees: 11 - 50

Region: North America

Challenge

As a startup organization, FinTech Studios wanted to add features to its highly-secure, real-time intelligence and analytics platform for FinTech Studios' customers with a quick turn-around

Solution

FinTech Studios uses Ververica Platform to build a real-time intelligence and analytics platform for financial professionals, in no time, leveraging distributed computing technology and stream processing as the backbone of the company's technology stack.

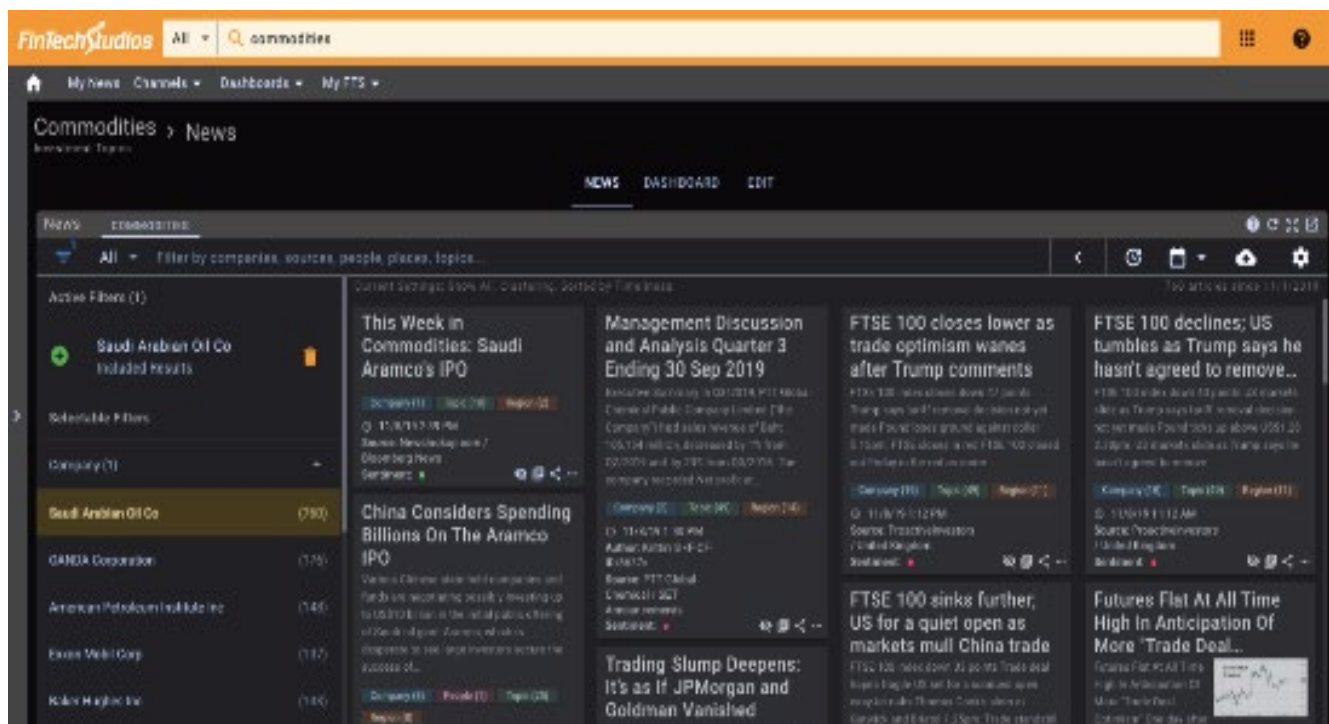
Results

- Developed and deployed the first Flink application in 1 month with a team largely new to Flink and Kubernetes
- Deployed 2 more jobs in 2 months with almost no increased operational or deployment overhead
- Integrated all jobs with their logging and metrics system in under 1 day
- Invested 3X more time writing Flink code, instead of maintenance and monitoring

The Challenge

As a FinTech Startup working with many organizations in the financial services sector, FinTech Studios needed to address multiple challenges when it came to processing real-time data.

- First and foremost, the company needed to produce a highly-secure, continuously running pipeline of data to build a real time intelligence and analytics platform for the financial services industry of tomorrow.
- Secondly, with a short turn-around cycle, the team had to address the challenge of choosing the right technology tools that would allow getting to production faster, while adding multiple features to enhance the product functionality based on customer feedback.



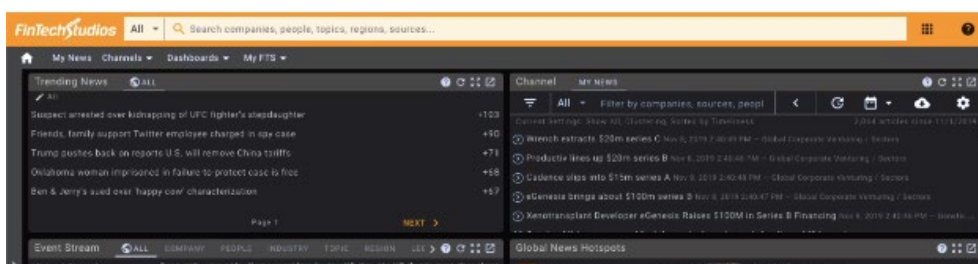
The Solution

With a constant change and news and information coming every second in the financial services sector, FinTech Studios adopted stream processing to leverage and process real-time data as soon as it is being produced and generated by multiple sources across the globe.

The company deployed Ververica Platform and Apache Flink to build a real-time feed of millions of news, research and regulatory sources and ingest those to the company's system to apply Machine Learning (ML), Natural Language Processing (NLP) and other enrichment processes to the data in order to provide data-driven workflows for financial services professionals, such as operational risk, sales & trading, know-your-customer (KYC), market intelligence, and general legal & regulatory change management.

Using the Ververica Platforms' APIs, FinTech Studios was able to develop and open-source a Kubernetes Operator, from scratch, in under a month. The operator defines mappings for Ververic Platform resources, like Flink Deployments, using Custom Resource Definitions allowing for native k8s management of Flink on Ververica Platform with widely-used tools like kubectl and Helm. As it acts as a simple bridge to the Ververica Platform, the operator doesn't need to store state, making it easy to deploy and upgrade without sacrificing any of the platform's functionality.

Though the Ververica Platform has a powerful UI, the team found that integrating with k8s tooling made deploying easy and reliable from CI, without needing to secure any additional entry points to their clusters. While they evaluated other open-source solutions for managing Flink, ultimately the choice to depend on Ververica to do the heavy-lifting, upgrading, and support of their Flink clusters was key to delivering the business needs both on time and with confidence.



The Results

With the use of Apache Flink and Ververica Platform, FinTech Studios is able to run their platform in a way that wouldn't be possible otherwise.

“ Using Flink and it's Kubernetes integration, we were able to go to production faster, something we couldn't achieve with our previous technology. ”

Austin Cawley-Edwards
Senior Engineer at Fintech Studios



Partnering with Ververica enabled FinTech Studios to achieve the following:

- Developed and deployed the first Flink application in 1 month with a team largely new to Flink and Kubernetes
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“ Not only is Ververica Platform a great asset and core element of our technology stack, but working with the Ververica team has been excellent as well! We find it incredibly valuable to be able to connect with the wider Ververica team and value the company’s commitment to open source. ”

Austin Cawley-Edwards

Senior Engineer at Fintech Studios



About Ververica Platform

Ververica Platform is a production-ready stream processing platform powered by open source Apache Flink®.

Ververica Platform enables the modern enterprise to build, operate, and run streaming applications in a secure, frictionless, scalable, and cost-efficient manner. The Platform allows you to harness the power of stream processing and start building streaming applications in a matter of days.



About Fintech Studios

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