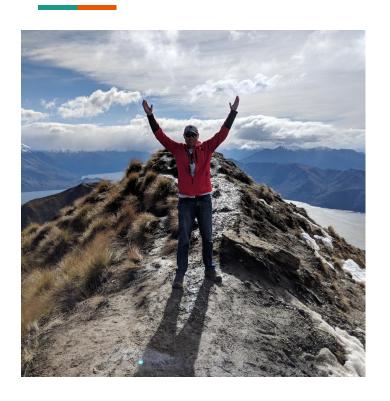
Flink & Kafka

An Apache Love Story June 18, 2020

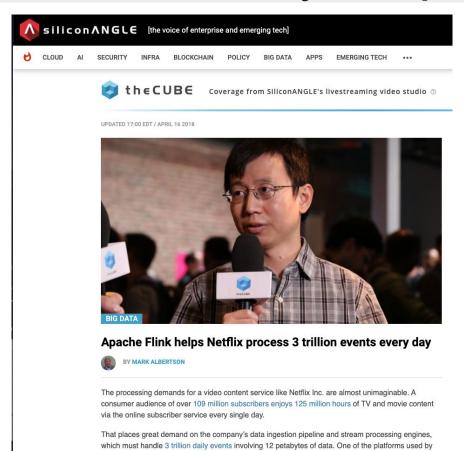


Introduction - Who Is The Data Jedi



- Completed PhD in Computer Science in 2015 from the University of North Texas
- Experienced Software Engineer, Data Architect, Data Scientist, and University Instructor
- Involved in Big Data and Spark since 2015
- Joined HWX/Cloudera as a SE with the US Federal team
- DS SME 2018
- Hobbies: Travel, Fitness, Texas, and Beer

Why Use Apache Flink??



Netflix is Apache Flink, an open-source tool for distributed stream and batch data processing.



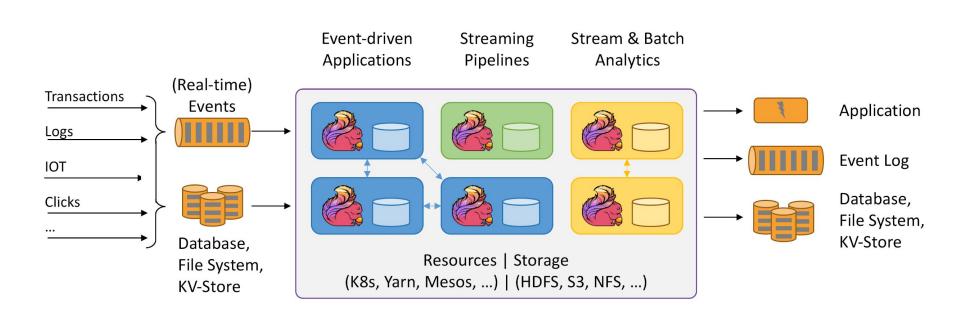
IoT Data Processing With Apache Flink: A Game Changer?

Organizations implementing an IoT strategy face the challenge of finding the right data processing architecture. Apache Flink is an excellent option for processing streaming IoT data.



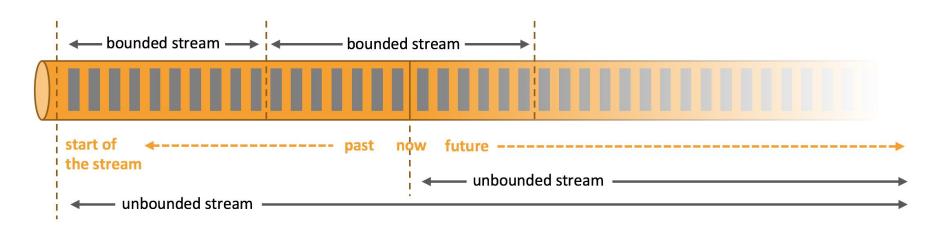


Apache Flink Is A Distributed Data Processing System

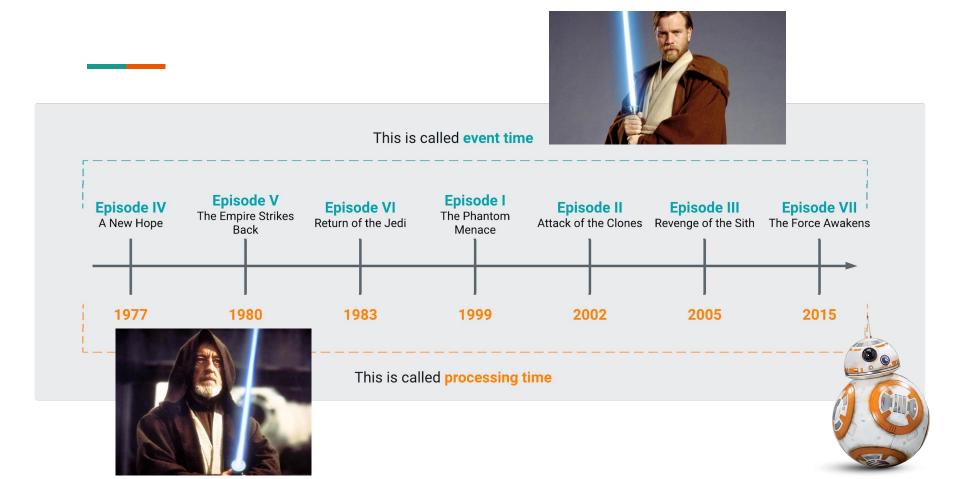


Flink Unifies Stream and Batch Processing

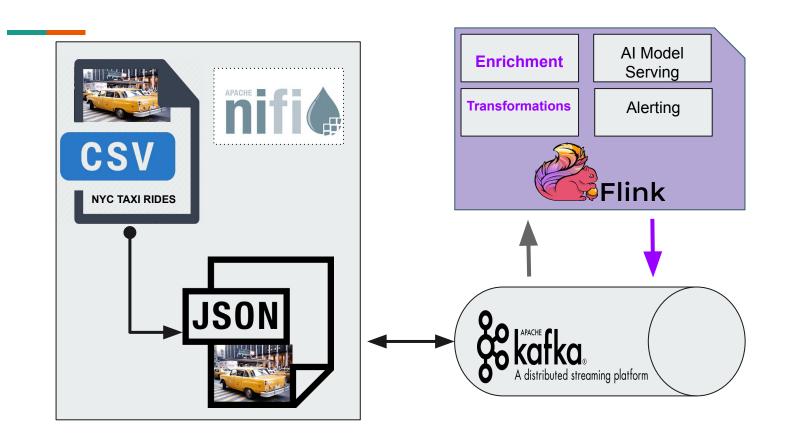
- Processes unbounded (stream) and bounded (batch) data
- Processes recorded (offline) and live (real-time) data
- Serves most streaming & batch use cases
 - Data Pipelines, Analytics, CEP, Event-driven Applications



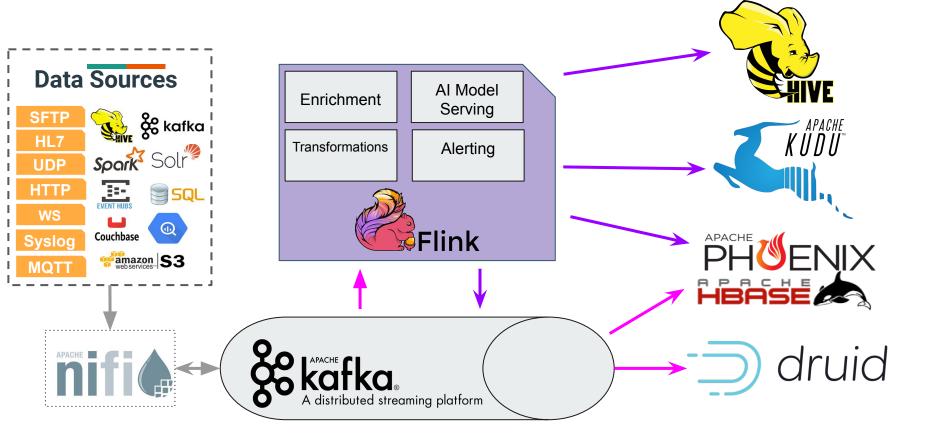
Event-Time and Processing-Time



Today's Demo Reference Architecture



Apache Zoo Animal Reference Architecture



Additional Documentation

- Additional project documentation on Flink and Kafka from lan's <u>Github collection</u>
- Netflix Real-time Stream <u>Processing Platform</u>
- Apache Flink helps Netflix process <u>3 trillion events every day</u>
- IoT Data Processing With Apache Flink: <u>A Game Changer</u>?



THANK YOU!