Alert Redistribution System for Astronomy

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What is Fink?

The Large Synoptic Survey Telescope (LSST, 2022-2032) will send 20,000 alerts from the sky per minute.

Fink is a broker (alert processor) based on Apache Spark and Apache Kafka. Main modules:

- Connect [to stream of alerts]
- Process [alerts]
- Redistribute [to the world]
1) Design and implement the redistribution module in Fink
   a) Stream and filter from Fink HBase DB using Spark & stream out alerts using Apache Kafka.
   b) Redirect alerts of interest to Slack channels for quick inspection.
2) Implement a client for astrophysicists to manipulate output streams
   a) Connect to Fink streams and easily manipulate alerts using a simple Python client.
Project report

https://gist.github.com/cAbhi15/70619824a8a24dc70cf061a766788934