

Histogram Re-streaming

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Situation

- Events streaming in via Kafka
- We want to have Live Visualization
 - e.g.: Using Mantid Instrument View
- Maybe some live analysis / reduction



Problem

- Event data grows very big very quickly
- Don't want to overload client machines
- Most software expects histograms / counts



Solution

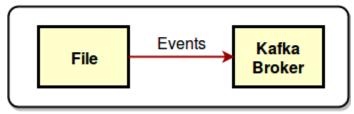
- Convert to histograms on the fly
- Potentially other live processing?
- Push back to Kafka



isis_nexus_streamer_for_mantid	

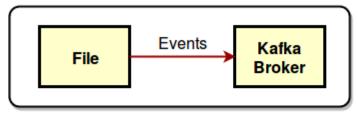


isis_nexus_streamer_for_mantid





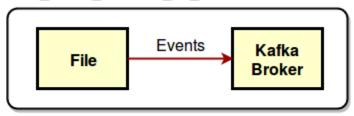
isis_nexus_streamer_for_mantid



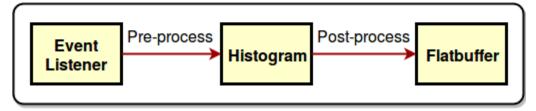
kafka_histo_streamer



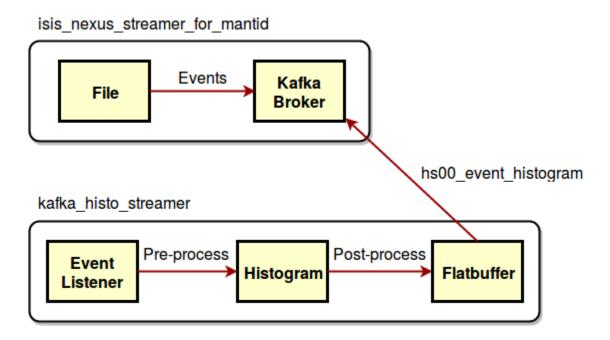
isis_nexus_streamer_for_mantid



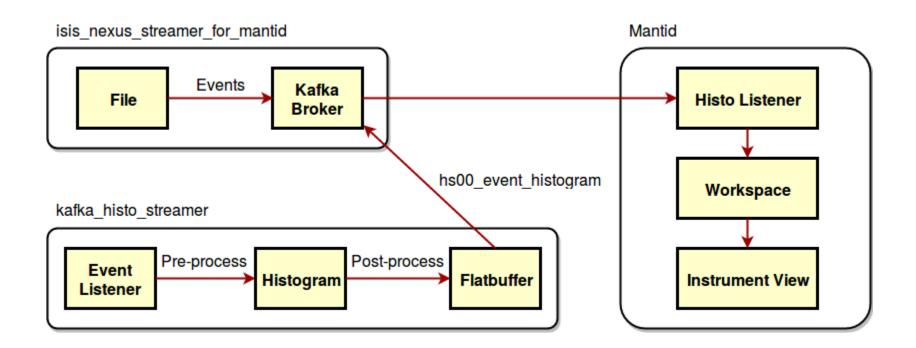
kafka_histo_streamer













Demo



Discussion

- Feedback
- Additional requirements
- Packaging
 - Docker container?
 - Requires Mantid
- AMOR Simulation?

