

Extreme-Scale Interactive Cross-Platform Streaming Analytics - The INFORE Approach

Architecture & Key Components devoted to face the challenges of:

Building a system for Interactive Streaming Analytic Workflows

- real-time, online analytics
- adaptive at runtime based on observed output or system performance metrics

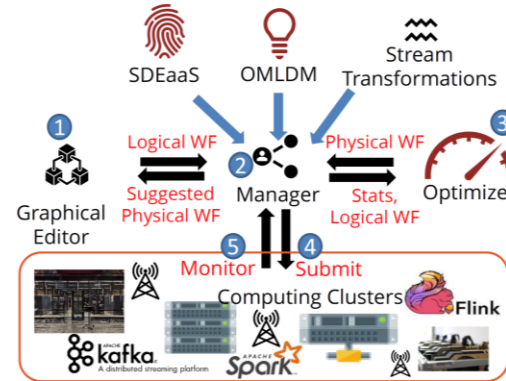
Cross-platform, multi-cluster execution

Many scalability aspects

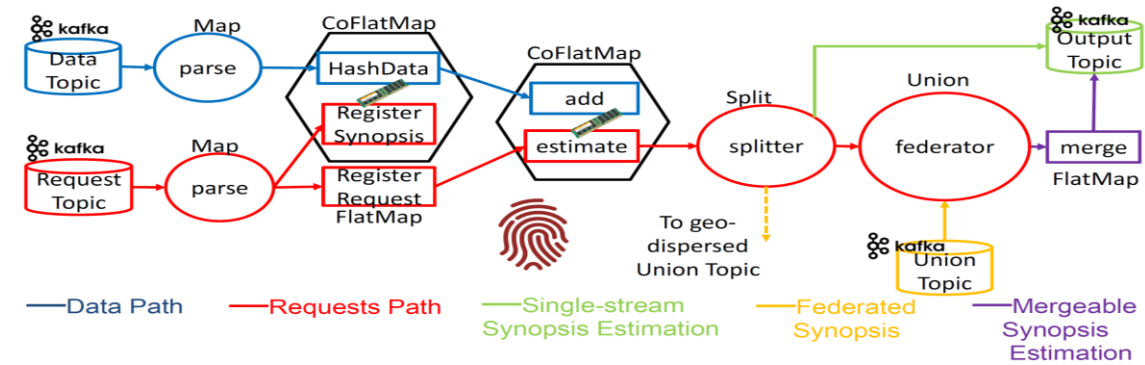
- Enhanced Horizontal Scalability
- Vertical Scalability
- Federated Scalability

Added-value via Component Synergies

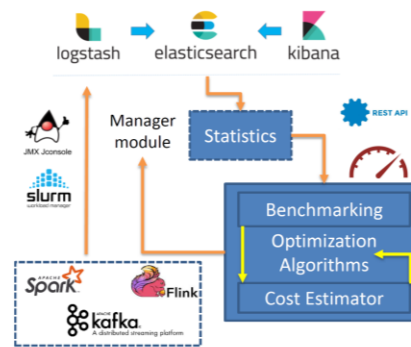
- Synopses-based Optimization
- Pumped Parameter Server
- Boosted Vertical Scalability



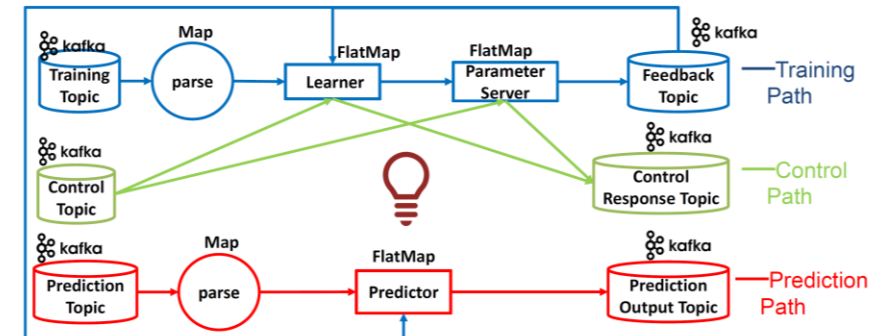
(a) Overall INFORE Architecture.



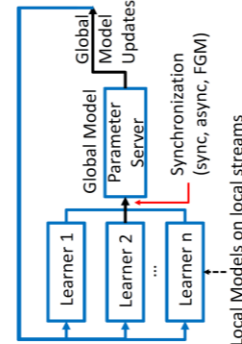
(b) SDEaaS Component (Condensed View).



(c) Optimizer Component



(d) OMLDM Component (Condensed View).



(e) Param. Server View.

Overall INFORE Architecture & Internal Architecture of Key Components

