Datorios

Flink® Needs Datorios to Shine

Apache Flink is renowned for its high-performance stream processing, excelling in handling massive data streams with lightning-fast, real-time capabilities. However, Flink has a significant blind spot: **Its limited built-in observability.**

The slogan **"Flink shines but the job remains blind!"** perfectly encapsulates this issue. While Flink processes data efficiently, it fails to offer a comprehensive understanding of the processes. This lack of insight poses challenges during development, debugging, and production monitoring. During development, everything may seem flawless. You've built and tested your Flink job, deploying it confidently. However, once in production, issues can arise: expected results may not materialize, metrics may flatline, and alerts may trigger. Performance can degrade, errors can emerge, and downstream failures can cascade.

The troubleshooting process becomes a desperate search in the dark without integrated observability, which includes data tracing, Flink log, and cluster metrics. Is the memory leak caused by a lack of resources, an uncontrolled state built, or a bug in the code? Flink's basic metrics and other APM tools that rely on these metrics, provide limited insight into the complex issues.

ENTER DATORIOS

The only all-in-one observability suite.

Datorios steps in as a crucial companion, providing the necessary visibility to illuminate Flink's complex processing landscape.

Job Topology

Datorios provides a clear understanding of data flow through your Flink job, identifying bottlenecks and inefficiencies.

Operator Metrics

Datorios delves into individual operators, exposing metrics like processing time, record count, and backpressure levels, allowing precise issue identification.

Logs and Metrics Alignment

Datorios collects and unifies Flink's error, exception, and cluster health metrics with operator metrics, providing a 360-degree view of job performance.

Historical Data Analysis

Datorios retains historical data, enabling trend analysis and identification of recurring issues, which is invaluable for proactive maintenance and optimization.

Beyond troubleshooting, Datorios enhances the entire development lifecycle with Flink, providing real-time insights into Flink job behavior. This enables validation of code functionality and performance optimization before deployment and shortens debugging cycles by offering detailed information on errors and their root causes.

Integrating Datorios with Flink unlocks the true potential of your data pipelines:

Ensure Data Quality

Identify and rectify data quality issues before they impact downstream applications.

Reduce Downtime

Speed up problem resolution by providing detailed error information, leading to significant time savings.

Optimize Resource Utilization

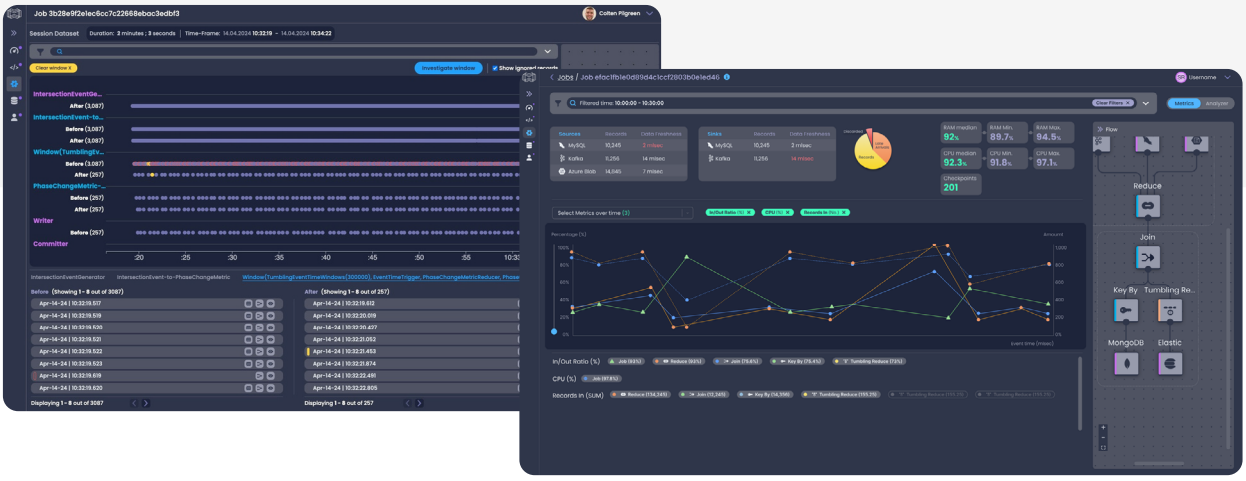
Optimize Flink cluster configurations, save costs and improve performance by understanding resource bottlenecks.

Boost Developer Productivity

Reduce time spent on debugging and troubleshooting, resulting in faster development cycles and higher developer satisfaction.

Flink's processing power is remarkable. However, it needs the guiding light of observability provided by Datorios to realize its full potential. Datorios offers the only comprehensive view of your Flink applications, ensuring your data pipelines run not only fast but also smoothly, efficiently, and transparently.

Embrace observability with Datorios, and let your data pipelines truly shine.



About Datorios

Datorios is a Silicon Valley and Tel-Aviv based company backed by leading VCs and founded by senior leaders from the Israeli Elite Intelligence Forces, built by industry veterans to address the challenges we ourselves experienced.

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