Datorios

Apache Flink, Observability, and Operational Quality
How Datorios Solves the Complex Puzzle

Apache Flink has become the industry-standard framework for real-time data processing, playing a pivotal role in delivering high-quality, real-time AI applications. Its ability to process vast amounts of streaming data in real-time is essential for organizations looking to derive immediate value from their data. However, with this power comes **the challenge of maintaining operational quality** - a challenge that Flink users are all too familiar with.

Observability is not just about knowing when something goes wrong; it's about being able to quickly detect and act on it. Datorios stands as the only observability solution tailored specifically for Apache Flink, addressing a critical gap in the industry.

Operational quality refers to the ability to maintain continuous operations and consistently deliver high-quality data products. **When operational quality falters, it can lead to significant direct and indirect losses** - whether from downtime or poor data quality seeping into business processes. Ensuring high operational quality is a complex task, influenced by three key factors: the data (which is often outside your control), the code that transforms it, and the infrastructure that powers everything.

When more than one of these factors - data, code, or infrastructure - contributes to a Flink - related issue, the complexity of identifying and resolving the problem multiplies. It's like searching for a needle in a haystack, or worse, facing the "chicken or egg" paradox: pinpointing which factor is the cause and which is the effect becomes nearly impossible without the right tools.

This is where Datorios steps in.

Datorios provides a unified platform that connects data traces across these three critical domains - data, code, and infrastructure - allowing you to **detect, isolate, and resolve issues quickly**. With Datorios, complexities are unraveled, empowering Flink users to maintain the operational quality they need to succeed.

Integrating a robust observability solution into your Apache Flink operations isn't just a luxury; it's a responsible choice for ensuring long-term operational success. It helps extract **maximum value from Apache Flink while avoiding unnecessary costs** in both development and production.