

# Fully-managed, end-to-end open source implementation

Organizations looking to leverage the power of open-source big data frameworks like Spark often face a critical skill shortage in implementation, or find themselves saddled with unexpected time and cost overruns. Open source frameworks offer infinite scalability, but must be properly harnessed for usability and time-to-value for the enterprise.

Equalum's first-of-its-kind technology marries the power of open-source frameworks with the robustness and reliability of an enterprise-grade solution.

## The Equalum Edge



### Automated installation and configuration

Moving past operating a single node to installing and configuring an entire Sparkcluster requires specialized DevOps and automation expertise. Configuring even a basic open source environment (e.g., Zookeeper – Spark – HDFS – Kafka) requires hundreds of settings and configurations, along with exploration and testing to optimize performance.

#### The Equalum Value

Equalum automates the installation of a big data environment, providing teams with a fully-configured, out-of-the-box Spark cluster that is completely customized to their needs. From automatically optimizing the number of nodes to tuning system settings for optimal performance, Equalum offers "Spark in a box."



### Zero-coding approach

Once a Spark cluster has been configured, creating new ETL or streaming jobs to make use of the cluster typically requires a high degree of Scala coding expertise. Individual data sources – e.g., business applications or relational databases – have different behavioral profiles and idiosyncrasies. And additional coding is required to perform critical transformations on the data, or to correlate data from multiple sources.

#### The Equalum Value

Equalum offers a completely zero-coding approach to setting up new jobs. A drag-and-drop UI offers business users the ability to specify a data source, indicate any desired transformations, and distribute the output to any supported targets. And with just the push of a button, users can toggle between "batch" and "streaming" mode, providing enterprises a path to support real-time analytics.



### Production-ready environment

Ensuring optimal performance of a Spark cluster at scale requires careful synchronization, harmonization of resources, and maintenance. Critical enterprise infrastructure elements like monitoring (for example, Prometheus to collect metrics, Grafana for visualization, ELK to collect and query logs for troubleshooting) make the task of operating a production-ready open source environment complex and time-consuming.

#### The Equalum Value

Equalum offers an end-to-end solution, ensuring that the environment operates at peak performance with cluster monitoring, tracking throughput, load balance, job time, and data integrity. A system of real-time alerts and notifications enable Equalum to escalate issues when critical intervention is required.

## Equalum Technology in Action

A Fortune 100 financial services corporation that had spent two years trying to implement its own Spark computing cluster went live with Equalum – and was powering real-time data ingestion within a single week.

Learn more, schedule a [demo](#) with Equalum today.