

# jKool Performance Analysis

## Enterprise Metrics

Monitoring performance, availability and compliance can produce a lot of data. In order to meet internal SLAs and externally imposed regulatory requirements these systems are always on, constantly writing their data to a database and maintaining an audit trail.

While the intent of monitoring is problem avoidance, the side effect of pervasive monitoring is that it can be time-consuming and costly. The data volumes produced can be viewed as big data and with that comes the challenge of finding what's important in massive amounts of data within the time allotted.

Often, managing this data becomes a bigger problem than acquiring it. Expensive databases that may not scale sufficiently, along with high personnel costs and internal MIPS-based chargebacks are required for this to be effective. Activities required for database maintenance such as purging and data reorganization

can have an unexpected adverse impact on the availability of mission critical applications. They can also negatively impact adjacent systems such as monitoring and other enabling technologies that rely on databases.

## jKool®

jKool addresses the challenges in maintaining enterprise metrics in the following ways:

- NoSQL big data repository scales to the largest volumes and transaction rates
- Self-services access to data reduces personnel costs
- No charges for MIPS utilization
- English-like query language makes its to find the data you need



jKool's easy-to-use and highly configurable web dashboard makes analyzing your enterprise metrics data easy. Queries drive each of the Viewlets which are easily entered using the dynamic Query Builder.

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## Store Metrics from AutoPilot

jKool can be used to store IT monitoring metrics such as :

- Memory, CPU and disk utilization
- JMX metrics, queue depth
- Log file data and more

Instead of writing this data to a database such DB2 on zOS, where MIPS and maintenance costs are high, stream the data to jKool. Users can then take advantage of web-based self-service reporting. This will reduce support calls, improve staff productivity and eliminate maintenance windows due to database availability and performance issues.

Nastel uses jKool technology either in SaaS or on-premises format to store and manage enterprise metrics. AutoPilot and data from other monitoring systems can be streamed to its repository.

## How Nastel/jKool can help

Nastel is an acknowledged industry-leader in monitoring



jKool's sophisticated charting includes multi-panel charts with candlesticks, as seen above. This chart shares an X axis (time) across three panels showing concurrently: elapsed time, average gains and losses,



and real-time analytics and has worked with the largest enterprise customers in the world to provide real-time monitoring dashboards displaying analytics using complex event processing and reporting.

### Analyze Performance Metrics

jKool visualization of streaming analytics as a service detects actionable insights in Enterprise Metrics stored in its Big Data repository, uncovering opportunities such as preventable losses. There is no need to manage a server, database or schema. jKool provides a rich set of streaming operators including Bollinger Bands and Exponential Moving Averages to immediately identify outliers and anomalies hidden in your metrics.

### Respond to Trends

Insight comes from jKool's real-time, in-memory trend analysis. With today's volume of data and rate of change the RDBMS approach is no longer viable –too slow and expensive. Trends are perishable, have a shelf-life and rapidly expire. jKool provides the instant awareness to enable you to rapidly respond to trends and stay ahead.

### Self-Service

Using jKool's flexible, easy-to-use dashboard and English query language the business user can create ad-hoc queries and immediately capture insights from their enterprise metrics data.

### Ease-of-use

Talk to your data in English. jKool provides the business user with an English-like query language, jKQL (jKool Query Language) to interactively explore their data. There is a web-based, mobile-ready dashboard that is query driven and provides a variety of streaming operators to make analysis deep, fast and easy.

### Scalability

jKool's Lambda Architecture can handle the largest volume of complex, concurrent data streams in near real-time. The compute grid automatically parallelizes queries for the utmost in performance and elasticity.

**About jKool** jKool, LLC, provides a SaaS, cloud-based solution for real-time visualization and analysis of streaming Big Data. Differentiating via ease-of-use, and scale, jKool delivers a solution that help the business, developers and data scientists visualize, analyze and understand their data in real-time.

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