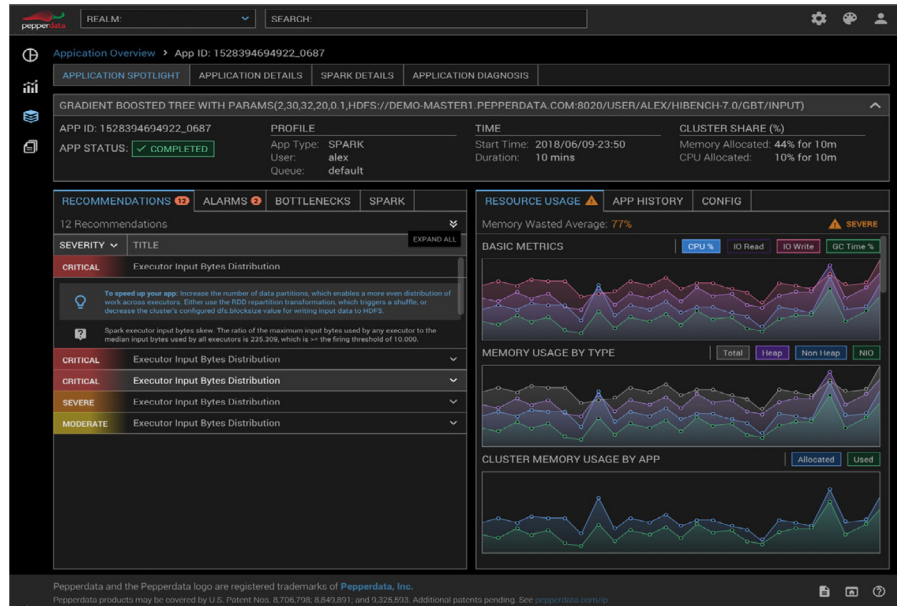# Application Spotlight

Get a 360° view of all your applications in real time—in the context of the entire cluster —in one place.

Create a Holistic Source of Application Performance Truth Across Your Big Data Clusters

You submit queries and wait. You have no insight into when a query or application starts running, if there are delays, or whether it will even finish. Without the right data, understanding your application performance to ensure SLAs, avoid failure, improve efficiency, and monitor resource capacity is hard. Developing fast and efficient applications requires an understanding of dozens of performance metrics and tuning parameters.

"Visibility into the metrics and being able to visualize Java metrics was critical. Before we installed Pepperdata, we didn't have a way to access JVM metrics or drill down to the level of granularity that was needed to effectively find and resolve issues the way we do now."

Jesse Escobedo, Rubicon Project

Get a 360° View of Your Applications

Pepperdata® Application Spotlight provides you with a 360° view of all your data in one place, so you can gauge performance in the context of the entire cluster. This allows you to quickly diagnose application performance issues up to 90% faster, and improve overall efficiency. Pepperdata also provides automatic tuning for recurring applications, delivers job-specific recommendations, and allows you to set up alerts on specific behaviors and outcomes to avoid the risk of failure.

- Self-service access to all of the data on your applications in one place – distinguish whether performance issues were caused by your application or a symptom of cluster performance.
- Profile and optimize application performance via recommendations and key performance indicators.
- Understand exactly what CPU and memory resources it requested, what it needs, what it used, and what it wasted.
- Identify the impact that the queue congestion, bottlenecks, and hardware failures have on application performance.

Pepperdata Experience

- We continuously monitor over 275 customer production clusters.
- These clusters have over 50,000 nodes spanning all big data distributions and hardware configurations.
- We monitor over one billion jobs and collect over 900 trillion data points annually.

Pepperdata Expertise

- We have extensive experience with Fortune 1000 customers.
- Our vast real-time proprietary data helps inform best practices and platform tuning.
- Our extensive experience with Fortune 1000 clusters provides insight to help you select the best hardware and software stack for your applications.
- Our experts help you squeeze the most performance out of your existing capacity and accurately forecast capacity needs.

Pepperdata Support

- Amazon Web Services
- Azure
- Google Cloud Platform
- Qubole
- Spark
- HDFS
- YARN
- MapReduce
- Kafka
- Tez
- Impala
- Hive
- HBASE

Get Recommendations to Optimize Applications

Improve the performance and efficiency of your applications and achieve optimal application performance on multi-tenant systems.

- Change configuration parameters to optimize performance. Get self-service recommendations on data partitioning and serialization.
- Tune CPU and member reservations based on actual consumption and get self-service recommendations on container sizes and heap reservations.
- Change queue selection or launch time based on cluster activity–Identify the best queue and launch time for applications based on current workloads to improve runtime and maximize performance.

Create and Recieve Alerts on Application Performance

Create and receive alerts about events that interfere with application performance.

- Identify cluster bottlenecks–Use rich real-time data provided by Pepperdata to identify resource bottlenecks, including CPU, memory, and IO.
- Identify application bottlenecks–Use the data provided by Pepperdata to pinpoint straggling tasks or poor parallelization that can significantly impact runtime.
- Identify applications at risk of missing their SLAs–Use the data provided by Pepperdata to alert on duration, amount of data processed or other milestones.

Accurately Report on Applications with 360° Insights

Make informed capacity and resource decisions.

- Accurately plan for growth with access to reports with all the relevant real-time and historical information about the cluster—including system demand, users, and applications—on one cohesive capacity planning report.
- Identify wasteful use of system resources – Identify users and applications.

About Pepperdata

Pepperdata provides analytics performance management that guarantees SLAs and reliability for your infrastructure and apps.

pepperdata.

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