SandStorm: Enterprise Performance Testing Solution for Big Data Applications

Do you face challenges in defining the appropriate performance test strategy for your Big Data applications? Do you want to check the performance of your application components and make sure they are optimally used? Are you looking for solutions to measure the performance of NoSQL databases, messaging queue etc.?

The sheer volume of data coming into the mainstream of business is forcing enterprises to validate and test their Big Data projects. While scale is the promise of Big Data technologies, reliability under specific use cases and strict SLA conditions is paramount. Ensuring that a Big Data application is reliable and scalable is a critical business consideration. The ROI that a Big Data project delivers is often the direct result of meeting performance requirements at scale.

Our Solution

Impetus’ enterprise performance testing tool, SandStorm, enables you to predict the scalability, reliability, and performance issues of your Big Data applications. Following are some of the salient features that help in case of Big Data application performance testing:

1. Script development for NoSQL, Messaging, MapReduce technologies
   - User interface for Mongo, Cassandra, Hbase, Kafka, RabbitMQ, ActiveMQ, Hadoop Benchmarks
   - API for MapReduce and other Big Data components

2. Integrated resource monitoring
   - Hadoop
   - Cassandra, Mongo, Oracle NoSQL, Hbase
   - Apache Kafka, Apache ActiveMQ, RabbitMQ
   - JMX, SNMP

3. Cloud platform for scalability, high volume testing

4. Powerful analytics
Benefits

- Save your time and efforts by leveraging ready to use solution for performance testing of your Big Data applications
- Optimize infrastructure usage by tuning the existing components and servers

Big Data Performance Focus Areas

Big Data Application Performance Testing: How SandStorm Works?

SandStorm provides Recorder component, Controller component, and a scripting interface. This interface is used to load and stress test any Big Data stack. The Recorder component quickly creates test scripts for end-to-end workflows and performance tests the entire application. This script can be used to test any NoSQL, messaging components in the Big Data cluster. The Controller component creates and designs test scenarios. Additionally, it also provides resource monitoring of the Big Data cluster to identify the performance issues during the test execution.

About Impetus

Impetus is a Software Solutions and Services Company with deep technical maturity that brings you thought leadership, proactive innovation, and a track record of success. Our Services and Solutions portfolio includes Carrier grade large systems, Big Data, Cloud, Enterprise Mobility, and Test and Performance Engineering.

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