Real-time Big Data Analytics – RFID Data Mining using Apache Spark

Slogan

Just give me the data.

Keywords

Spark, YARN, Real-time, Big Data Mining, HDFS, Hadoop, Java, Rails

Category

Distributed Systems, Technology, Data Science

Field of Service

Business Intelligence and Data Analysis

Department

Open Source Application Development

Branch

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Overview

Our project utilizes the power of advance big data analytics frameworks to provide real-time statistics over large datasets received from large groups of RFID sensors that would otherwise be difficult to handle. This powerful service is packaged in sleek, modern looking, usable web interface for clients to easily submit and monitor their tasks in real-time.

Services

- Calculate multiple statistics and metrics of the received data upon clients' request.
- Visualize the data in a beautiful, elegant web application.
- Store and maintain user data archives securly and privately on highly available cloud servers.

Features
- Real-time Analysis
- Secure File Transfer
- Multiple Data Presentation Methods
- Multiple Statistics

What is unique about the project?

Apache Spark is a technology in its adolescence. This project tries to capitalize on the true potential of the Spark framework and thus faces unique challenges of limited support and documentation. Only a few number of companies/entities are using this framework.

Feedback quote from end users (beneficiaries) after testing the project application

"We are surprised of the capability and efficiency of the end product. Excellent work!"

Avid-Beam Technologies