

CA Automic Workload Automation for Hadoop

At A Glance

CA Automic Workload Automation for Hadoop provides a centralized orchestration point for all Hadoop MapReduce and HDFS tasks, both in the cloud and in hybrid environments. With CA Automic Workload Automation for Hadoop, infrastructure and operations staff are able to automate Hadoop tasks without the additional stress of learning how to use a multitude of new tools.

KEY BENEFITS

- Reduces the amount of time application developers spend on scripting and internal systems research
- Increases visibility and control for data process flows
- Reduces risks for security and compliance
- Expands the set of big data services that IT is able to offer to the business
- Detects performance problems sooner and protects service levels

KEY FEATURES

- **Web services integration** that eliminates the need to install and create a local Hadoop client and allows flexibility to remotely access multiple Hadoop environments.
- **HDFS File Browser** that gives users an explorer view of the Hadoop file system.
- **Self-Service Portal** where non-technical users can submit workflows to process data or execute reports.
- **Schedule and run** different types of jobs as such as HDFS, Pig, Hive, MapReduce Jar, and MapReduce Stream.
- **Connection profiles** let access environments with different user credentials through WebHCat and WebHDFS.

Business Challenges

The insight provided by Big Data has become a prerequisite for companies to remain competitive. As dictated by creating an open source software project, Hadoop has grown from being a small distribution to becoming an integral part of many companies' IT ecosystems. The speed at which a company can generate business insights out of Hadoop is vital to the data they have available when making important business decisions. The challenge is how to integrate new Big Data applications and processes into existing IT processes, enabling data analysis without causing major disruptions that impact business-as-usual operations.

To remain agile and meet the timely needs of the business for new services and updates, Hadoop developers need to automate this process by organizing the steps into reusable workflows that can be used over and over again to industrialize and accelerate the development process. Put simply, automation eliminates the need to write new code.

Solution Overview

CA Automic Workload Automation for Hadoop gives users the ability to automate Hadoop jobs and HDFS actions without needing to write scripts. Hadoop jobs can then be integrated using CA Automic Workload Automation intuitive workflow designer, creating data pipelines and ensuring the right data is processed in the correct order at the right time.

As most Hadoop programs require extensive scripting that creates complexity, CA Automic Workload Automation for Hadoop utilizes a reusable object-oriented framework combined with out-of-the-box actions and templates. Using its drag-and-drop workflow designer, Data Engineers and non-technical users like Data Scientists can quickly build complex Hadoop workflows, reducing development effort and time.

Hadoop applications must be managed to the same ITIL-based standards as the rest of the infrastructure in the data center. CA Automic Workload Automation helps businesses meet all these requirements with comprehensive operational controls and governance such as SLA monitoring, event management and version management.

Related Products

CA Automic Workload Automation. Deliver the fully automated enterprise with intelligent business automation.

CA Automic Release Automation. Drive agility and speed to digital business apps and core commercial applications.

CA Automic Service Orchestration. Deliver the IT services your users, applications and infrastructure need, when they need it.

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