

Control-M

End-to-end orchestration of data pipelines

Product description

To go from raw data to actionable intelligence, you need an enterprise-ready workflow orchestration product that can accelerate time to insights. Data platforms rely heavily on data movement and integration with the rest of your application ecosystem. Control-M helps you orchestrate and automate complex data pipelines across hybrid and multi-cloud environments and leading technologies to ensure consistent service levels.

Business challenge

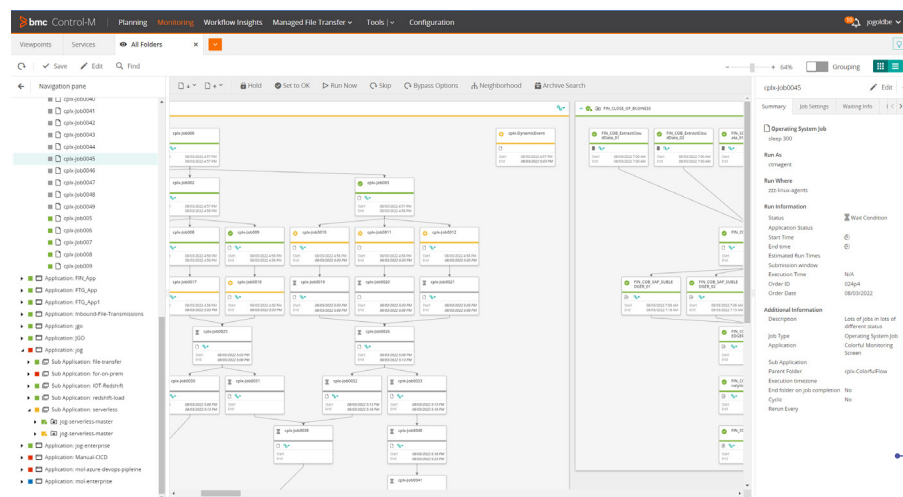
Every day you ingest vast amounts of data from various sources, such as transactional systems of record, operational databases, logs, applications, sensors, and devices. The data must be synchronized, ingested, consolidated, cleansed, and analyzed to give the actionable intelligence your business needs. Many disparate technologies are used to ingest, store, process and analyze the data. Orchestration of such workflows is difficult to build, and development is typically done with multiple disconnected scripts, which are time-consuming to develop and maintain. This complexity limits the speed at which data applications can be delivered, making it difficult to adapt to the challenges posed by accelerated applications, disparate data, and increasingly diverse infrastructure.

SIMPLIFY WORKFLOW ORCHESTRATION

- **End-to-end visibility** – Manage data workflows through a simple drag-and-drop interface that provides universal visibility and control for all your workflows
- **Rich ecosystem support** – Apache® Spark®, Apache® Oozie®, EMR, Snowflake, Azure Data Factory, Redshift and others
- **Improved reliability** – Detects and prevents potential problems with forecasting features and predictive analytics; restarts can be attempted automatically without requiring human intervention
- **Embedded in your DevOps toolchain** – Using a Jobs-as-Code approach, data workflows can be tested, versioned and deployed within a CI/CD toolchain

BENEFITS

- **Execute fast and accurate implementation** by replacing manual scripting with automated workflow orchestration and data integration, dramatically shortening development time and preventing coding errors
- **Improve business focus** instead of spending time building connectors and coordinating multiple tools



Control-M makes it easy to view, manage, and understand data and associated workflows.

BMC solution

With Control-M, you can orchestrate data workflows on premises and in the cloud, while managing complex workflow dependencies during ingestion and processing of data in many modern data platforms such as Amazon EMR, Azure Data Factory, Google Big Query, Spark, Hadoop, and Snowflake. You get an end-to-end view of data pipelines at every stage, from ingestion and processing to storage and analytics.

Capabilities

Powerful, simple interface: Build, run and manage your data pipelines from an interface of your choice. Use a modern web user interface to rapidly build workflows using drag and drop capability or develop the same workflows using an as-code approach with Python or JSON.

- Rapidly build workflows using a wide variety of integrations to cloud services and other applications.
- Make changes to your workflows with peace of mind using out-of-the-box version control
- Utilize existing CI/CD pipelines to build, validate, test and promote using Control-M Automation API.
 - Easily define your own integrations with Control-M Application Integrator to achieve the level of abstraction that is best for your environment.
 - Manage business critical data pipelines with Control-M SLA Management to ensure data pipelines complete on-time, every time.
- Trigger pipelines based on events or time-based schedules.

Comprehensive support: Control-M can orchestrate workflows and integrate data from multiple sources. Supported solutions and formats include:

- **Data platforms and technologies** such as, AWS EMR, AWS Glue, Azure HDInsights, Azure Data Factory, Azure Functions, Spark, Databricks, GCP Dataflow, GCP Cloud Functions, GCP Dataproc, Hive™, Sqoop, Airflow
- **Enterprise Data Warehouses (EDW)** – AWS Redshift, Informatica®, IBM® InfoSphere® DataStage®, IBM DB2, Microsoft® SQL Server™, Oracle® databases, and others
- **Technologies** – FTP, sFTP, Web Services, Enterprise Java Beans (EJB), and Java® applications
- **ETL functions and business intelligence systems** – Informatica, IBM® Cognos®, SAP® BusinessObjects™, Oracle® Business Intelligence, and SQL Server SSIS
- **RDBMS** – Oracle, Sybase®, DB2/UDB, SQL Server, and PostgreSQL®
- **Cloud services** – AWS Lambda, Step Functions, Batch, SQS, SNS and S3 Azure Logic Apps, Functions, Blob and Batch
- **Backup systems** – Symantec® NetBackup™ and IBM® Tivoli® Storage Manager
- **Operating systems** – Microsoft® Windows®, UNIX®, Linux®, IBM® z/OS®, IBM® iSeries®, Tandem®, and OpenVMS

Self-service: Users can monitor and manage their own workflows from any browser-based device, including mobile iOS® and Android™ devices

FOR MORE INFORMATION

To learn more please visit bmc.com/it-solutions/control-m-big-data

About BMC

BMC works with 86% of the Forbes Global 50 and customers and partners around the world to create their future. With our history of innovation, industry-leading automation, operations, and service management solutions, combined with unmatched flexibility, we help organizations free up time and space to become an Autonomous Digital Enterprise that conquers the opportunities ahead.

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