Transform Your Informatica Cloud Automation

Informatica Cloud:
IT Automation Boundaries Identified
The disparity of analytic, reporting, and BI solutions, combined with the growing volume of data, is leading to increasingly complex ETL and data warehousing processes. Automating these complex data pathways and managing the dependencies between systems is typically accomplished via a collection of scripting and multiple platform-specific scheduling tools.
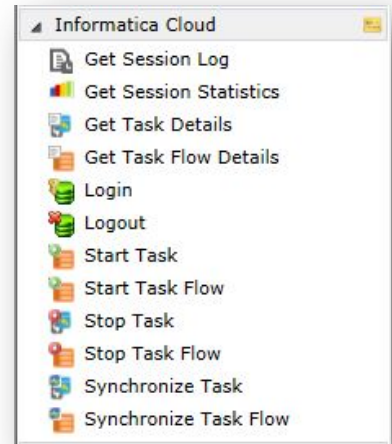
Informatica Cloud's native scheduler is a platform-specific tool intended for scheduling only Informatica processes. As a result, IT organizations must rely on senior-level administrators and ETL architects to leverage hardcode complex workflow triggers and logic to integrate Cloud ETL processes with dependent process types. Accessing and integrating these large volumes of data and managing the heterogeneous collection of data sources and applications needs a simpler approach.

ActiveBatch's enterprise automation solution provides Informatica users with the ability to seamlessly integrate Informatica Cloud and PowerCenter processes with other technologies, applications, and databases with the power of drag & drop Job Steps from our award-winning Integrated Jobs Library. With ActiveBatch, users can build dynamic end-to-end workflows and pass data across cloud-based and on-premise systems, without the need for custom scripting to integrate Informatica Cloud with dependent systems. In addition, ActiveBatch provides more advanced scheduling and workflow management capabilities to eliminate manual intervention and improve overall IT agility.

Efficiently Automate and Integrate Workflows Across Your Data Warehousing Environment
ActiveBatch, by Advanced Systems Concepts, is an IT Automation solution that consolidates platform-specific schedulers, scripts and process types within a single point of control. The ActiveBatch Extension for Informatica Cloud provides a series of 12 production-ready Job Steps for common Cloud functions to the ActiveBatch Integrated Jobs Library. With these Job Steps, users can designate Informatica Cloud job criteria such as Task and Task Flow Name from auto-populating dropdown menus, drag-and-drop these steps into end-to-end workflows using the Jobs Library's workflow designer, and establish dependencies and constraints.

- Trigger Workflows Based on Events
- Trigger Workflows Across Folders
- Dynamically Set Runtime Parameters
- Ensure Dependencies Are Met (like having exclusive access to a file) Prior to Downstream Processing
- Access full log files

Informatica Cloud
- Get Session Log
- Get Session Statistics
- Get Task Details
- Get Task Flow Details
- Login
- Logout
- Start Task
- Start Task Flow
- Stop Task
- Stop Task Flow
- Synchronize Task
- Synchronize Task Flow

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Additionally, users can retrieve full Informatica Cloud log files programmatically and display them through the GUI. These Cloud Job Steps, combined with over 150 other "templated" Job Steps for common IT tasks/functions, applications, databases, and computing platforms, allow users to integrate Informatica Cloud processes with dependent process types and technologies, removing the need for custom scripting. This includes production-ready Job Steps for a broad range of systems that commonly comprise end-to-end processes, including database types, other data warehousing applications, and BI/reporting solutions.

Advanced Date/Time Scheduling and Event Automation

ActiveBatch's advanced date/time scheduling and event automation framework allows for Informatica Cloud ETL task flows to be triggered dynamically based on granular calendaring, IT and business events, and job dependencies to eliminate manual intervention and ensure reliable data quality. For example, rather than relying on scripting run dates within a Cloud Task to execute a task flow on certain dates, users can leverage ActiveBatch's advanced date/time scheduling, including support of Fiscal, Business, and Gregorian calendars, to schedule Informatica Cloud workloads tied to business processing requirements. Moreover, ActiveBatch allows a calendar or schedule to be associated with multiple task flows, thereby saving users' time spent hard-coding run dates across individual Informatica Cloud task flows.

Alternatively, ActiveBatch's event automation framework supports both Job triggers and constraints, allowing workloads to be executed based on IT and/or business events. ActiveBatch supports a wide array of triggers, including Email, File, JMS/JMX, Web Service, WMI, database triggers and more. For example, PowerCenter architects can trigger ETL workloads using file triggers/constraints or based on a SQL Server query or Oracle database trigger to ensure downstream data quality.

Reuse Rather Than Rewrite

ActiveBatch is an object-based architecture that promotes reusability to allow workflow developers to build it once and use it multiple times. ActiveBatch's Reference Object functionality allows hundreds or even thousands of reference jobs to mimic the same logic of the original template job. As a result, a single change to the template object will automatically be passed down to each reference, eliminating copy & paste and simplifying maintenance for ETL architects managing multiple ETL workloads that share common objects.

ActiveBatch Variables extend these capabilities further by allowing users to simplify the repetitive and time consuming nature of developing and maintaining individual jobs with variables that can share job properties across different objects. For example, users can easily set Informatica Cloud parameter files dynamically at runtime using ActiveBatch Job Variables to ensure accurate workload execution and reliable data quality.

Faster Time to Insight
Powerful automation of workflows, tasks, and processes from beginning to end.

Integrated Jobs Library
Hundreds of prebuilt, production ready integrations so you don't have to write a single line of code.

Complex Scheduling
Advanced date/time and event-driven scheduling capabilities.

Conditional Logic
Incorporate conditional logic/flow control like if/then/else statements without custom scripting.

Built-in Monitoring and SLAs
Monitor and alert users on the progress of jobs with SLAs.

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ActiveBatch Extension for Informatica Cloud Workflow
as displayed in the ActiveBatch Integrated Jobs Library

Automate Informatica Cloud Processes with Advanced Capabilities

To manage inter-job dependencies and conditions within multi-step workflows that span heterogeneous applications and systems, ActiveBatch provides more advanced capabilities than Informatica's native scheduler. With the Integrated Jobs Library, users can execute different Informatica Cloud task flows, thereby allowing cross-task flow triggering within a single ActiveBatch Job. Moreover, the Integrated Jobs Library's Flow Control Job Steps allow task flow developers to easily embed complex task flow logic and procedures into ETL processes without having to hardcode it, such as the If-Branch Job Step to manage the execution of downstream jobs based on the successful completion of a preceding Cloud task flow.

Monitoring Informatica Processes

Users can leverage ActiveBatch's built-in runtime monitoring to proactively monitor a job's progress and send an alert if the job is running longer than expected based on historical average runtimes. Alternately, a user can assign an SLA to a job or plan and allow ActiveBatch to proactively take action (increase queue priority, build a priority fence to prioritize machine resources, etc.) if the job or plan breaches a preset threshold. If an issue occurs at any point, ActiveBatch can automatically restart the task flow from the point of failure, while also notifying the proper person or group directly via a broad range of alert types and notification methods.

With ActiveBatch, Informatica users can integrate and automate ETL/data warehousing/BI workloads into automated, repeatable processes that deliver a high degree of visibility and control over all steps in the ETL/BI processes.

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"Advanced Systems Concepts, long-time Informatica Partner and maker of ActiveBatch® Workload Automation, offers Informatica PowerCenter and Cloud users a simplified and powerful approach to automating their workflows and tasks. ActiveBatch's job scheduling capabilities and rich library of pre-built integrations help organizations more easily and reliably build end-to-end workflows across Informatica and non-Informatica applications. The result is a streamlined, reliable integration that is unparalleled in ease of use."

Ronen Schwartz
Senior Vice President & General Manager
Data Integration & Cloud Integration, Informatica

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