

AutoSys™
by Broadcom

AutoSys Integrations

20250701

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Why Integrate with AutoSys?

Modern enterprise workflows rely heavily on cloud-native tools and hybrid systems. While these platforms offer great scalability, they lack the robust scheduling, cross-platform integration, and automation required for mission-critical production environments.

AutoSys bridges this gap. It unifies complex interactions across on-premises, cloud, and hybrid environments into a single, cohesive workflow that overcomes the limits of standalone tool automation. Acting as an Intelligent Control Plane, AutoSys centrally orchestrates schedules, dependencies, monitoring, logging and more.

- Centralize control to streamline and automate highly complex, end-to-end workflows.
- Simplify compliance and auditing with improved security and governance.
- Deliver service quality and rapid troubleshooting with real-time monitoring, alerting, and logging.
- Connect seamlessly with existing IT tools and infrastructure with flexibility for the future, avoiding vendor lock-in.

Automation Marketplace: An Extensive Integrations Catalog

In addition to its rich library of native job types, AutoSys offers an extensive ecosystem of integrations via the Broadcom Automation Marketplace.

These integrations allow you to seamlessly connect diverse tools, platforms, and systems to AutoSys.

Discover how AutoSys can enable operational efficiency and greater visibility and control over end-to-end automation in your enterprise.

Learn more about AutoSys integrations



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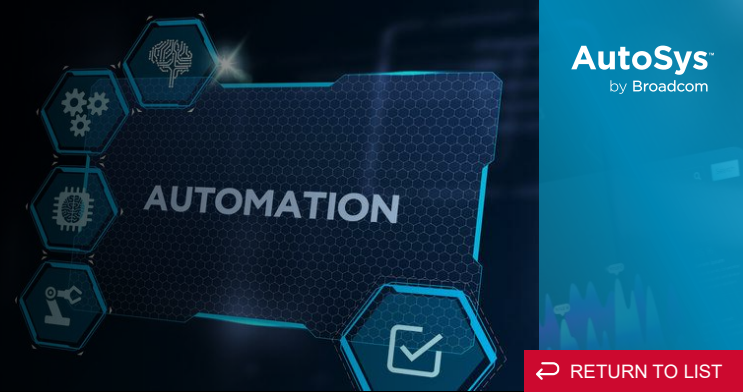
[SAP S/4HANA Application
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Ansible Tower

Ansible Tower is an enterprise tool that helps organizations automate and manage their IT tasks more efficiently. It builds on Ansible, an open-source automation engine, by adding a user-friendly interface, central control, basic scheduling and real-time monitoring. With Ansible Tower, teams can streamline repetitive IT processes, manage systems across different environments, and ensure consistent task execution, all while providing better visibility, security, and control.

[RETURN TO LIST](#)**Ansible Tower**

Benefits and Use Cases

- Schedule and execute Ansible job templates and workflow templates to streamline complex workflows and reduce manual errors.
- Monitor execution status in real time within the AutoSys interface.
- Capture detailed execution logs for auditing and compliance.

Example Use Case: Application Deployment and Maintenance

Fully automate the deployment of a new application version, apply critical server patches, and validate the system across multiple environments, all orchestrated by AutoSys.

AutoSys Features

- ✓ Run Ansible Tower Jobs and Workflow Templates
- ✓ Monitor Ansible Tower Jobs and Workflow Templates to completion
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of Ansible Tower processes
- ✓ Coordinate Ansible Tower processing with other AutoSys jobs
- ✓ Provide advanced scheduling rules for Ansible Tower processing
- ✓ Centralize and standardize monitoring, alerting and problem resolution

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Apache Airflow

Apache Airflow is an open-source platform designed to help organizations build, schedule, orchestrate, and monitor data pipelines, ETL processes, and other complex workflows. It offers basic CRON-like scheduling capabilities, allowing users to set workflows to run at specified intervals based on time, day of week or month. Airflow uses Directed Acyclic Graphs (DAGs), where tasks are represented as nodes, and the dependencies between them are clearly defined. It enables users to programmatically author workflows using Python.

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Benefits and Use Cases

- Automate complex data workflows, pipelines, and task dependencies for greater control and visibility.
- Manage and monitor Airflow jobs with enterprise workloads in a single automation platform.
- View DAG execution status and task-level progress directly within the AutoSys interface.
- Access execution logs and trigger retries from AutoSys to reduce manual intervention and downtime.

Example Use Case: Data Pipeline Orchestration and Monitoring

Schedule, execute, and monitor critical data pipelines across cloud and on-prem environments.

AutoSys Features

- ✓ Schedule execution of Apache Airflow DAGs
- ✓ Monitor to completion Airflow DAGs
- ✓ Retrieve DAG logs for problem diagnosis
- ✓ Alert on failure of DAG processing
- ✓ Create dependencies between DAG executions
- ✓ Incorporate DAG processing in existing enterprise automation workflows including dependency enforcement

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>> Native Job Type in v24.1+

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Apache Kafka

Apache Kafka is an open-source distributed event streaming platform designed for building real-time data pipelines and streaming applications. It allows systems to publish, store, process, and subscribe to streams of records or events in a fault-tolerant and highly scalable way. Kafka enables real-time data integration and processing by decoupling systems that send data from systems that receive data and ensures durability and order of data. Kafka is commonly used for real-time analytics, log aggregation, and building event-driven architectures.



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Benefits and Use Cases

- Trigger jobs and process Kafka messages in real time for event-driven job execution.
- Send messages to Kafka topics to trigger downstream processing and consume messages from Kafka topics to trigger jobs in AutoSys.
- Manage and monitor Kafka-based workflows directly from AutoSys.
- Configure producer and consumer settings using a standard Kafka properties file.

Example Use Case: Real-Time Order Processing

Automate workflows in response to business events, such as incoming customer orders or transaction updates to process payments, update inventory, or notify fulfillment system.

AutoSys Features

- ✓ Publish a message to Apache Kafka Topic
- ✓ Subscribe for an Apache Kafka Topic message
- ✓ Monitor on success or failure of Apache Kafka message processing
- ✓ View execution log for problem diagnosis
- ✓ Incorporate Apache Kafka processing in existing enterprise automation workflows including dependency enforcement

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Amazon Managed Workflows for Apache Airflow (MWAA)

Amazon Managed Workflows for Apache Airflow (MWAA) is a fully managed service that makes it easy to run and scale Apache Airflow. This open-source tool efficiently orchestrates data pipelines, ETL processes, and other complex workflows. With MWAA, organizations can build, schedule, and monitor workflows without managing the underlying infrastructure.

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Benefits and Use Cases

- Trigger Airflow DAGs on a schedule or on demand to automate ETL processes, machine learning, and other data workflows to Control and manage your data pipelines at scale, seamlessly.
- Centralize oversight of DAG execution status and task progress in AutoSys with real time monitoring
- Access DAG run logs and failure details to support compliance and troubleshooting.

Example Use Case: Data Pipeline Orchestration and Monitoring

Execute scheduled or on-demand Airflow DAGs to orchestrate ETL workflows that extract, transform, and load data across systems. Monitor these DAG status and individual task progress in real time and automatically recover from failures by triggering retries or fallback DAGs based on scheduler logic.

AutoSys Features

- ✓ Schedule execution of Apache Airflow DAGs
- ✓ Monitor to completion Airflow DAGs
- ✓ Retrieve DAG logs for problem diagnosis
- ✓ Alert on failure of DAG processing
- ✓ Create dependencies between DAG executions
- ✓ Incorporate DAG processing in existing enterprise automation workflows including dependency enforcement



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Amazon Storage (S3)

Amazon S3 (Simple Storage Service) is a cloud-based storage solution offered by Amazon Web Services (AWS) that allows users to store and retrieve any amount of data anytime from anywhere on the web. It is designed to be highly scalable, secure, and durable. S3 organizes data into "buckets" and supports a wide array of data types as well as integrating with other AWS services.



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Benefits and Use Cases

- Schedule and execute file transfers to and from Amazon S3 to support data ingestion, archival, or distribution use cases.
- Automate the movement of critical files across environments as part of end-to-end job chains.
- Track file operations and transfer status in real time.
- Leverage secure credential management and built-in retry logic to ensure reliable, policy-compliant file handling.

Example Use Case: Data Staging for Downstream Processing

Automate data staging with AutoSys to seamlessly trigger secure, validated S3 file transfers to and from your processing environments, accelerating downstream ETL, ML, and batch jobs while ensuring data integrity and instant failure remediation.

AutoSys Features

- ✓ Monitor S3 objects for create, update or for existence
- ✓ Schedule upload or download of S3 cloud storage objects
- ✓ Delete S3 objects
- ✓ Retrieve processing log for problem diagnosis
- ✓ Alert on failure of S3 processing or if it is late
- ✓ Create dependencies between S3 objects
- ✓ Incorporate S3 objects in existing enterprise automation workflows including dependency enforcement

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AWS Batch

AWS Batch is a fully managed service by Amazon Web Services (AWS) that enables developers and scientists to run batch-computing workloads in the cloud. It dynamically provisions the optimal compute resources, including CPU or GPU instances, based on the specific job requirements, removing the need to manage infrastructure. AWS Batch is ideal for handling large-scale computational tasks such as data analysis, image processing, or simulations, making it easier to process vast amounts of data in parallel.

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AWS BATCH

Benefits and Use Cases

- Schedule and submit AWS Batch jobs directly from AutoSys.
- Automate and integrate AWS Batch workloads into broader enterprise workflows, including upstream data preparation and downstream analysis.
- Monitor job execution status, capture logs, and surface errors for operational visibility and troubleshooting.
- Optimize resource utilization by leveraging AWS Batch's dynamic compute provisioning.

Example Use Case: Large-Scale Data Processing

Maximize data processing efficiency and maintain strict compliance by scheduling automated, upstream-triggered batch jobs that seamlessly manage dependency dependent tasks and capture critical logs directly within AutoSys.

AutoSys Features

- ✓ Schedule/Run AWS Batch jobs
- ✓ Monitor AWS Batch jobs to completion
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of AWS Batch jobs
- ✓ Incorporate AWS Batch jobs into enterprise automation workflows including dependency enforcement

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AWS Elastic MapReduce (EMR)

Amazon Elastic MapReduce (AWS EMR) is a fully managed cluster platform that enables fast, cost-effective processing and analysis of large datasets.



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Benefits and Use Cases

- Integrate cloud-based EMR processing with on-premises and multi-cloud systems for unified orchestration.
- Trigger Amazon EMR jobs to run Spark, Hadoop, or Presto-based processing as part of scheduled workflows.
- Monitor EMR job progress and completion status in real time through AutoSys.
- Cancel or restart EMR steps and clusters directly from AutoSys in response to job dependencies or failures.

Example Use Case: Scheduled Data Transformation Pipeline

Schedule recurring batch processing jobs that transform large datasets for analytics and reporting. Seamlessly ingest raw S3 data into clean datasets, maximize resource efficiency through programmatic job termination, and automatically trigger downstream reporting based on real-time execution status.

AutoSys Features

- ✓ Add steps to a cluster
- ✓ Schedule Notebook process
- ✓ Monitor Notebook jobs to completion
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of Amazon EMR jobs
- ✓ Incorporate Amazon EMR jobs into enterprise automation workflows including dependency enforcement



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AWS EventBridge

Amazon EventBridge is a fully managed event bus service by AWS that makes building applications that react to real-time data and events easy without managing the underlying infrastructure. It routes events from various sources, such as AWS services, Software as a Service (SaaS) applications, and custom applications, to target destinations like AWS Lambda, Step Functions, and other AWS services. EventBridge helps ensure the right data is sent to the right services, enabling automation and seamless integration between services. It is often used to trigger workflows, monitor application state changes, and integrate microservices.

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**Amazon
EventBridge**

Benefits and Use Cases

- Automatically launch jobs in response to events from AWS services.
- Send custom events from the Broadcom scheduler to trigger downstream AWS workflows.
- Integrate cloud-native events into broader automation chains for real-time responsiveness.
- Track event publishing and consumption directly from AutoSys for transparency and compliance.

Example Use Case: Real-Time Cloud Resource Automation

Automatically respond to cloud events, such as resource creation, state changes, or custom application triggers to coordinate real-time, event-driven responses across hybrid environments.

AutoSys Features

- ✓ Publish custom events to Amazon EventBridge
- ✓ Retrieve processing log for problem diagnosis
- ✓ Alert on failure of event processing
- ✓ Incorporate Amazon EventBridge events in existing enterprise automation workflows including dependency enforcement



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AWS Glue

AWS Glue is a fully managed cloud service from Amazon Web Services (AWS) that simplifies discovering, preparing, and integrating data for analytics, machine learning, and application development. It offers tools for extracting, transforming, and loading (ETL) data from various sources into a centralized data repository, making it easier for users to prepare data for analysis. AWS Glue is often used to automate data preparation tasks, build scalable ETL pipelines, and integrate data across various systems and environments.

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Benefits and Use Cases

- Start and monitor AWS Glue jobs to automate extract, transform, and load (ETL) operations across multiple data sources.
- Trigger crawlers to catalog and prepare data for processing.
- Orchestrate Glue workflows, blueprints, and triggers as part of end-to-end data pipelines.
- Monitor execution status in real time within AutoSys.

Example Use Case: Data Preparation for Analytics

Automate the preparation and transformation of raw data for analytics and reporting in real time, ensuring analytics-ready data is consistently delivered with minimal manual effort.

AutoSys Features

- ✓ Schedule/run AWS Glue jobs, workflows and Blueprints
- ✓ Monitor AWS Glue jobs, Workflows and Blueprints to completion
- ✓ Start AWS Crawlers
- ✓ Start Triggers
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of AWS Glue jobs
- ✓ Incorporate AWS Glue processing in existing enterprise automation workflows including dependency enforcement

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AWS Lambda

AWS Lambda is a serverless computing service provided by Amazon Web Services (AWS) that allows you to run code in response to specific events without needing to provision or manage servers. With Lambda, you simply upload your code, and AWS automatically handles the execution, scaling, and infrastructure management. It is highly scalable and cost-efficient because you only pay for the compute time your code actually uses, down to the millisecond. AWS Lambda is ideal for building event-driven applications, automating backend processes, and enabling microservices architectures.

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Benefits and Use Cases

- Invoke and monitor Lambda functions to execute business logic directly from AutoSys, enabling responsive, scalable automation without managing infrastructure.
- Incorporate Lambda function processing in existing enterprise automation workflows including dependency enforcement
- Capture execution logs and configure automated retries for improved resilience and troubleshooting.

Example Use Case: Scheduled Reports and Data Processing

Reduce operational overhead and optimize costs during off-peak hours by automating sales report generation, downstream data transformations, and Amazon Redshift, including centralized performance monitoring and automated error recovery workflows.

AutoSys Features

- ✓ Schedule/run Lambda function jobs
- ✓ Monitor Lambda function jobs to completion
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of Lambda function jobs

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AWS Step Function

AWS Step Functions is a fully managed service from Amazon Web Services (AWS) that enables developers to coordinate and orchestrate multiple AWS services into serverless workflows using visual workflows. It helps break down complex processes into individual steps, where each step can trigger AWS services like Lambda, ECS, or even custom applications. This makes it easier to build and automate long-running or multi-step applications. Step Functions automatically manage execution, retries, and error handling for each step, ensuring reliability and scalability.

**AUTOMATION**[RETURN TO LIST](#)AWS Step Functions
and how you can use it

Benefits and Use Cases

- Start AWS Step Functions State Machines to orchestrate complex, multi-step workflows across AWS services and external systems.
- Monitor execution status in real time and restart State Machines from AutoSys in response to failures or business logic.

Example Use Case: Coordinated Data Processing Workflow

Build a reliable automated data processing pipeline that integrates multiple AWS services with built-in error handling, automatic restarts based on scheduler-defined conditions, and real-time execution monitoring.

AutoSys Features

- ✓ Schedule/run AWS Step Functions
- ✓ Monitor AWS Step Functions to completion
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of AWS Step Functions
- ✓ Incorporate AWS Step Functions into enterprise automation workflows including dependency enforcement

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AWS Systems Manager (SSM)

AWS Systems Manager (SSM) is a secure, centralized AWS operations hub that provides end-to-end management, visibility, and control over servers and infrastructure across AWS cloud, on-premises data centers, and multi-cloud environments. AWS Systems Manager and Auto Scaling Groups (ASGs) together provide automated, scalable, and secure infrastructure management.



Benefits and Use Cases

- Issue a command to all EC2 instances in the AWS Auto Scaling Group (ASG) without looping through each instance
- Gain centralized control over your entire fleet of AWS compute instances without the need for SSH access
- Reduce manual interventions by triggering package updates, patching processes and runbooks in an ASG

Example Use Case: Security & Compliance Auditing

Apply and maintain consistent security policies with less effort by executing commands to run security vulnerability scans, verify firewall configurations, or check for specific file hashes across your entire fleet.

AutoSys Features

- ✓ Trigger commands to an ASG (AWS Auto Scaling Group) using AWS SSM
- ✓ Monitor to completion the AWS SSM
- ✓ Retrieve logs for problem diagnosis
- ✓ Alert on failure of AWS SSM
- ✓ Create dependencies between AWS SSM executions
- ✓ Incorporate AWS SSM processing in existing enterprise automation workflows including dependency enforcement



Azure Airflow (Workflow Orchestration Manager)

Azure Airflow (officially known as Workflow Orchestration Manager in Azure Data Factory) is a managed service that lets you easily build, schedule, and monitor complex data pipelines using Apache Airflow

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Benefits and Use Cases

- ✓ Automate complex data workflows, pipelines, and task dependencies for greater control and visibility.
- ✓ Manage and monitor Airflow jobs with enterprise workloads in a single automation platform.
- ✓ View DAG execution status and task-level progress directly within the AutoSys interface.
- ✓ Access execution logs and trigger retries from AutoSys to reduce manual intervention and downtime.

Example Use Case: Data Pipeline Orchestration and Monitoring

Schedule, execute, and monitor critical data pipelines across cloud and on-prem environments.

AutoSys Features

- ✓ Schedule execution of Airflow DAGs
- ✓ Monitor to completion Airflow DAGs
- ✓ Retrieve DAG logs for problem diagnosis
- ✓ Alert on failure of DAG processing
- ✓ Create dependencies between DAG executions
- ✓ Incorporate DAG processing in existing enterprise automation workflows including dependency enforcement

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Azure Blob Storage

Azure Blob Storage is Microsoft's cloud-based object storage solution designed to store and manage unstructured data like documents, images, videos, and backups at a massive scale. It is highly scalable, durable, and cost-effective. It is ideal for various use cases, including serving files to web applications, storing backup and disaster recovery data, and supporting big data analytics workloads. Azure Blob Storage offers different access tiers (hot, cool, and archive) to optimize costs based on data usage patterns.

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Azure Blob Storage

Benefits and Use Cases

- Upload, download, copy, move, and delete blobs between containers to streamline storage operations.
- Monitor blob containers for changes to trigger downstream processes in real time.
- Automate retention, archival, and cleanup policies across environments.
- Centralize control and visibility of storage workflows.

Example Use Case: Automated Data Ingestion and Archival

Maximize operational efficiency and data hygiene with fully-automated data lifecycles, instantly triggering processing jobs when new files are detected in Azure and applying rule-based archival to delete stale blobs.

AutoSys Features

- ✓ Monitor Azure Blob objects for create, update or for existence to trigger processing
- ✓ Schedule upload, download or deletion of Azure Blob cloud storage objects
- ✓ Copy Azure Blob object from one container to another container
- ✓ Retrieve processing log for problem diagnosis
- ✓ Alert on failure of Azure Blob processing or if data is late
- ✓ Incorporate Azure Blob objects in existing enterprise automation workflows including dependency enforcement

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Azure Data Factory

Azure Data Factory (ADF) is a fully managed cloud-based data integration service provided by Microsoft Azure, designed to orchestrate and automate data movement and transformation across various data sources. ADF allows users to create and manage data pipelines that can ingest data from multiple on-premises and cloud-based sources, process or transform that data, and then store it in destinations like Azure Blob Storage, SQL databases, or data warehouses. ADF provides basic scheduling CRON-like scheduling facilities to cause the execution of a data pipeline.



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Azure Data Factory

Benefits and Use Cases

- Gain centralized control and visibility over pipeline execution.
- Define and trigger Azure Data Factory pipelines to automate complex data movement and transformation tasks.
- Orchestrate data workflows across hybrid and multi-cloud environments.
- Enforce governance and ensure consistency in data operations across the organization.

Example Use Case: Enterprise Data Transformation and Integration

Trigger pipelines to ingest data from cloud and hybrid sources, transform and cleanse it, and load the refined data into an analytics platform while monitoring progress and ensuring compliance and operational efficiency.

AutoSys Features

- ✓ Schedule/Run Azure Data Factory pipelines
- ✓ Monitor Azure Data Factory pipelines to completion
- ✓ Restart Azure Data Factory pipelines from failed activity
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of Azure Data Factory pipelines
- ✓ Incorporate Azure Data Factory processing in existing enterprise automation workflows including dependency enforcement

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Azure Event Grid

Azure Event Grid is a fully managed event routing service from Microsoft Azure that enables seamless real-time communication between applications, services, and devices through events. It allows developers to build event-driven architectures by routing events from various sources, such as Azure services, custom applications, or third-party solutions. Event Grid supports high throughput and low-latency delivery of events, making it ideal for building reactive systems that respond to state changes, notifications, or other triggers. With its built-in filtering and event handling capabilities, Azure Event Grid ensures that only relevant events are delivered to the appropriate services, improving the efficiency and scalability of cloud-native applications.

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Azure Event Grid

Benefits and Use Cases

- Orchestrate event publishing as part of broader automated workflows.
- Enable real-time communication between applications and services across cloud and hybrid environments.
- Publish native Event Grid events, cloud events, and custom events to trigger downstream processes.
- Centralize control and monitoring of event-based processes.

Example Use Case: Event-Driven Microservices Orchestration

Automate and monitor event publication to drive microservices and serverless functions with scheduled jobs that publish cloud events and invoke Azure Functions or Logic Apps subscribed to the event topic.

AutoSys Features

- ✓ Publish Event Grid events
- ✓ Publish Custom events
- ✓ Publish Cloud events
- ✓ Incorporate Azure Event Grid events in existing enterprise automation workflows including dependency enforcement

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Azure Logic Apps

Azure Logic Apps is a cloud-based service within Microsoft Azure that enables users to create and automate workflows and business processes without extensive coding. It provides a visual interface for designing workflows that integrate seamlessly with a wide range of services, both on-premises and in the cloud, such as Office 365, Azure services, SQL databases, and third-party applications like Salesforce and GitHub.



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Azure Logic Apps

Benefits and Use Cases

- Automate complex business processes across cloud and on-premises systems.
- Centralize control of diverse integrations and business logic from a single scheduling platform.
- Initiate Logic Apps workflows in response to scheduled events or conditions.
- Monitor execution status and results in real time.

Example Use Case: Hybrid Workflow Automation

Automate Logic App workflows to schedule secure SFTP-to-Azure transfers upon file uploads, route legacy on-premise customer orders to modern cloud platforms, and trigger instant Office 365 email notifications.

AutoSys Features

- ✓ Schedule/Run Azure Logic Apps Workflow
- ✓ Monitor Azure Logic Apps Workflow to completion
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of Azure Logic Apps Workflow
- ✓ Incorporate Azure Data Factory processing in existing enterprise automation workflows including dependency enforcement

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Azure Synapse

Azure Synapse Analytics is a comprehensive analytics service from Microsoft Azure that integrates big data and data warehousing capabilities into a single, unified platform. It allows organizations to ingest, prepare, manage, and analyze vast data for business intelligence and machine learning purposes. Synapse provides a unified environment where data engineers and data scientists can use SQL, Spark, and other tools to query and process data from various sources. It supports both on-demand serverless querying and provisioned resources, offering flexibility in handling data workloads.

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Azure Synapse Analytics

Benefits and Use Cases

- Schedule and execute Azure Synapse pipeline jobs in existing enterprise automation workflows to orchestrate complex data workflows and enforce dependencies.
- Monitor execution status in real time within the Broadcom scheduler interface.
- Automatically restart failed pipelines from the point of failure to minimize downtime and improve resiliency.

Example Use Case: Data Pipeline Orchestration and Recovery

Trigger Azure Synapse pipelines to ingest and transform sales data from multiple sources, monitor each stage for execution status and performance, and automatically restart the pipeline from any failed activity for timely insights without manual intervention.

AutoSys Features

- ✓ Schedule/Run Azure Synapse pipelines
- ✓ Monitor Azure Synapse pipelines to completion
- ✓ Restart Azure Synapse pipelines from failed activity
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of Azure Synapse pipeline jobs

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Cloud Foundry

Cloud Foundry is an open-source Platform-as-a-Service (PaaS) that enables developers to build, deploy, and scale applications quickly and efficiently in cloud environments. It abstracts away the underlying infrastructure, allowing developers to focus on writing code while the platform handles the complexities of deployment, scaling, and management. Because of its multi-cloud capabilities, Cloud Foundry can be deployed on various cloud providers, including AWS, Google Cloud, Microsoft Azure, and on-premises environments, making it ideal for enterprises seeking to run cloud-native applications in a consistent and portable way.

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CLOUD  **FOUNDRY**

Benefits and Use Cases

- Simplify application lifecycle management and gain centralized control and visibility into application workflows across multi-cloud environments.
- Execute and monitor CloudFoundry tasks, such as database migrations or utility scripts, until successful completion.
- Deploy and track the status of CloudFoundry applications from development to production within AutoSys.

Example Use Case: Application Deployment and Task Execution

Automate the deployment of a cloud-native CloudFoundry application, run supporting tasks, and monitor execution to ensure full completion before downstream workflows execute.

AutoSys Features

- ✓ Schedule/Run Cloud Foundry tasks and applications
- ✓ Monitor Cloud Foundry tasks and applications to completion
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of any scheduled activity
- ✓ Incorporate Cloud Foundry into enterprise automation workflows including dependency enforcement

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Databricks is a unified data analytics platform integrating big data processing with machine learning, allowing organizations to streamline their data engineering, data science, and business analytics workflows. Based on Apache Spark, Databricks simplifies large-scale data pipeline development, deployment, and management. It provides an interactive workspace where data engineers, data scientists, and analysts can collaborate in real-time, sharing notebooks, visualizations, and insights. Its managed service offering on platforms like Azure and AWS eliminates the need for infrastructure management, providing an easy, scalable, and secure environment for data-driven initiatives.

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Benefits and Use Cases

- Start and stop Databricks clusters to optimize resource usage and cost.
- Run and monitor Databricks jobs using the Run Now or Runs Submit APIs.
- Centralize control and visibility of your Databricks workloads within your enterprise automation environment.
- Automate complex data and machine learning pipelines across hybrid or multi-cloud environments.

Example Use Case: Scalable Data Pipeline Execution

Automate end-to-end data processing and machine learning workflows across large data volumes by scheduling Databricks clusters, triggering ETL jobs, and submitting training pipelines with complete visibility and control.

AutoSys Features

- ✓ Run and Monitor Databricks jobs to completion
- ✓ Run jobs using Run Now and Run Submit payloads
- ✓ View execution log for problem diagnosis
- ✓ Restart Databrick jobs
- ✓ Alert on failure of Databrick jobs
- ✓ Incorporate Databricks processing in existing enterprise automation workflows including dependency enforcement

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dbt

dbt (data build tool) is an open-source tool that enables data teams to transform raw data into analytics-ready datasets within a data warehouse. Unlike traditional ETL (Extract, Transform, Load) processes, dbt focuses on the Transform part of the pipeline, allowing users to write transformation logic using SQL and version control the transformations like code. dbt operates directly within cloud-based data warehouses like Snowflake, BigQuery, and Redshift. It promotes a modular, scalable approach to transforming data, allowing analysts and engineers to collaborate more efficiently in creating clean, well-structured data sets for reporting, analytics, and machine learning.

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Benefits and Use Cases

- Automate and integrate dbt tasks into broader enterprise workflows, including upstream ingestion and downstream reporting jobs.
- Monitor dbt execution status, capture logs, and surface errors for operational visibility and troubleshooting.
- Improve data reliability and reduce manual overhead by automating routine transformation tasks.

Example Use Case: Customer Insight from Company Data

Transform raw, e-commerce logs from payment platforms into structured, reliable revenue tables so different teams can make decisions using a single, agreed-upon definition of Customer Lifetime Value.

AutoSys Features

- ✓ Schedule/Run dbt jobs
- ✓ Create dependencies between dbt jobs
- ✓ Monitor dbt jobs to completion
- ✓ View execution log for problem diagnosis
- ✓ Restart dbt jobs
- ✓ Incorporate dbt processing in existing enterprise automation workflows including dependency enforcement



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Google Cloud Batch

Google Cloud Batch is a fully managed service that automatically schedules, queues, and executes batch processing workloads—such as rendering, AI/ML training, or high-performance computing (HPC)—on GCP infrastructure. It simplifies computing by provisioning resources, managing task parallelization, and running scripts or containerized applications (Docker) without requiring manual VM management.



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Benefits and Use Cases

- Submit and manage batch jobs for large-scale computing tasks such as rendering, simulations, and data processing.
- Monitor job execution and individual task progress in real time.
- Eliminate manual provisioning and leverage Google's cost-efficient, scalable compute resources.

Example Use Case: Scalable Data Pipeline Execution

Automate data processing pipelines across thousands of compute nodes and accelerate time to insight without manual intervention. Schedule batch jobs to transform raw log data into analytics-ready datasets, monitor progress and completion, and optimize compute usage by terminating resources post-execution.

AutoSys Features

- ✓ Execute Batch jobs
- ✓ Monitor and manage the Batch jobs
- ✓ Retrieve processing log for problem diagnosis
- ✓ Alert on failure of GCS processing or if it is late
- ✓ Create dependencies between GCS objects
- ✓ Incorporate GCS objects in existing enterprise automation workflows including dependency enforcement

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Google Cloud BigQuery

Google Cloud BigQuery is a fully managed, serverless data warehouse designed for fast and scalable analysis of large datasets. It enables users to run SQL queries on terabytes or petabytes of data in seconds, making it an ideal solution for big data analytics and business intelligence. BigQuery eliminates the need for infrastructure management, such as provisioning servers or optimizing storage, as it automatically scales to handle data processing needs. It supports real-time analytics, allowing organizations to quickly analyze streaming data and gain insights.

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Benefits and Use Cases

- Schedule, manage and monitor BigQuery Data Transfer Service jobs to automate data ingestion from various sources, and BigQuery Scheduled Queries to automate SQL-based data
- Simplify ETL pipelines by integrating scheduling and data transfer in a unified environment.
- Enhance data pipeline reliability through built-in retry and monitoring mechanisms.

Example Use Case: Automated Marketing Data Integration

Automate the daily ingestion of Google Ads performance data into BigQuery, schedule queries to automatically transform campaign metrics, and initiate downstream workflows for timely, accurate business intelligence and campaign performance insights.

AutoSys Features

- ✓ Run and Monitor Google Cloud BigQuery Data Transfers and Scheduled Queries to completion
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of Google Cloud BigQuery Data Transfer and Scheduled Query jobs
- ✓ Incorporate Google Cloud BigQuery Data Transfer and Scheduled Query processing in existing enterprise automation workflows including dependency enforcement

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Google Cloud Composer

Google Cloud Composer is a fully managed orchestration service built on Apache Airflow, designed to make it easy to run and scale Apache Airflow. This open-source tool efficiently orchestrates data pipelines, ETL processes, and other complex workflows by creating Directed Acyclic Graphs (DAGs) that define the steps in a workflow, making it easy to orchestrate tasks like data ingestion, processing, and machine learning model training.



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Benefits and Use Cases

- Trigger Airflow DAGs from to automate end-to-end workflows.
- Monitor DAG execution status and track task progress in real time.
- Integrate Composer workflows with other enterprise scheduling jobs for unified orchestration.
- Reduce manual intervention and improve reliability by centralizing job control and monitoring.

Example Use Case: Multi-Source Data Pipeline Orchestration

Automate multi-step data pipelines by triggering a directed acyclic graph (DAG) that extracts data from multiple cloud storage buckets and APIs, executes transformation logic within Airflow using BigQuery and Python operators, and monitor task progress and failures.

AutoSys Features

- ✓ Schedule execution of Apache Airflow DAGs
- ✓ Monitor to completion Airflow DAGs
- ✓ Retrieve DAG logs for problem diagnosis
- ✓ Alert on failure of DAG processing
- ✓ Create dependencies between DAG executions
- ✓ Incorporate DAG processing in existing enterprise automation workflows including dependency enforcement

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Google Cloud Composer (GCC) Airflow

Google Cloud's offering for Apache Airflow is called Cloud Composer (recently also referred to as Managed Service for Apache Airflow). It is a fully managed, native workflow orchestration service that allows you to author, schedule, and monitor data pipelines and workflows as code.

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Benefits and Use Cases

- Automate complex data workflows, pipelines, and task dependencies for greater control and visibility.
- Manage and monitor Airflow jobs with enterprise workloads in a single automation platform.
- View DAG execution status and task-level progress directly within the AutoSys interface.
- Access execution logs and trigger retries from AutoSys to reduce manual intervention and downtime.

Example Use Case: Data Pipeline Orchestration and Monitoring

Schedule, execute, and monitor critical data pipelines across cloud and on-prem environments.

AutoSys Features

- ✓ Schedule execution of Airflow DAGs
- ✓ Monitor to completion Airflow DAGs
- ✓ Retrieve DAG logs for problem diagnosis
- ✓ Alert on failure of DAG processing
- ✓ Create dependencies between DAG executions
- ✓ Incorporate DAG processing in existing enterprise automation workflows including dependency enforcement



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Google Cloud Data Fusion

Google Cloud Data Fusion is a fully managed data integration service designed to help users build and manage data pipelines for batch and real-time data processing. It provides a visual, drag-and-drop interface for creating complex data workflows, allowing organizations to easily integrate data from various sources, including on-premises databases, cloud storage, and SaaS applications, into their data lakes or warehouses. Built on the open-source CDAP (Cask Data Application Platform), Cloud Data Fusion supports powerful data transformations, cleaning, and enrichment operations, helping organizations prepare their data for analytics or machine learning.

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Benefits and Use Cases

- Streamline your data processing workflows and complex ETL/ELT processes across hybrid environments by executing pipeline jobs in Google Cloud Data Fusion and integrating Data Fusion with other scheduled jobs.
- Monitor pipeline status and track execution progress in real time.
- Improve operational efficiency by centralizing control over data pipelines.

Example Use Case: Automating ETL Pipelines for Analytics

Automate the end-to-end ETL process for an analytics platform by triggering a Data Fusion pipeline to extract data from multiple on-premises and cloud sources, apply transformation logic, load the results into BigQuery or another destination, and monitor execution to seamlessly handle failures.

AutoSys Features

- ✓ Schedule/Run Cloud Data Fusion jobs
- ✓ Monitor Cloud Data Fusion jobs to completion
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of Cloud Data Fusion jobs
- ✓ Incorporate Cloud Data Fusion processing in existing enterprise automation workflows including dependency enforcement

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Google Cloud Dataflow

Google Cloud Dataflow is a fully managed stream and batch data processing service that allows users to develop and execute data pipelines for real-time data streams and large-scale batch processing using Apache Beam, an open-source unified programming model. Dataflow is designed for scalability and high performance, enabling users to process and analyze large volumes of data with minimal operational overhead. It automatically manages resource provisioning, scaling, and optimization, freeing users from the complexities of infrastructure management.

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Benefits and Use Cases

- Integrate Dataflow pipelines and template jobs into broader enterprise workflows with time-based or event-driven scheduling
- Monitor pipeline execution status and job logs directly within the Broadcom scheduler interface.
- Automate failure handling by configuring alerts and retries based on execution outcomes.

Example Use Case: Real-Time Data Transformation Pipeline

Automate the ingestion and enrichment of streaming data via Pub/Sub and BigQuery, trigger downstream processing jobs on completion, and ensure seamless workflow orchestration through automated failure notifications and retries.

AutoSys Features

- ✓ Schedule/Run Google Cloud Dataflow template jobs
- ✓ Monitor Google Cloud Dataflow template jobs to completion
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of Google Cloud Dataflow template jobs
- ✓ Incorporate Google Cloud Dataflow processing in existing enterprise automation workflows including dependency enforcement

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Google Cloud Dataproc

Google Cloud Dataproc is a fully managed, fast, and scalable service designed to run open-source big data processing frameworks like Apache Spark, Hadoop, Flink, and Presto. It eliminates the heavy lifting of cluster setup and management, allowing fast processing, analysis, and scale for massive datasets.

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Benefits and Use Cases

- Provision clusters on demand, run jobs and shut them down automatically.
- Schedule and orchestrate Dataproc jobs using time-based, event-based, or dependency-based triggers.
- Monitor job execution status and performance in real time.
- Centralize control over Dataproc jobs with other business processes and batch workloads.

Example Use Case: End-to-End Big Data Job Orchestration

Optimize resource utilization and streamline data workflows with automation for a Spark-optimized Dataproc cluster to deploy, execute a machine learning data pipeline that processes Cloud Storage datasets, shut down on job completion, and seamlessly chain with data ingestion, post-processing, or reporting tasks.

AutoSys Features

- ✓ List, Start and Stop Cluster
- ✓ Submit Job to cluster -submit and submitAsOperation
- ✓ Workflow Template instantiate -Normal and Inline
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of Google DataProc
- ✓ Incorporate Google DataProc processing in existing enterprise automation workflows including dependency enforcement

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Google Cloud Run

Google Cloud Run is a fully managed, serverless platform that allows users to run containerized applications without worrying about infrastructure. Google automatically handles provisioning, scaling, security, and server management for provided code or container images.



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Benefits and Use Cases

- Ensure secure and controlled execution across different Google Cloud environments.
- Create and orchestrate Cloud Run services as part of larger automation workflows alongside batch, on-premise, and cloud-native jobs.
- Deploy new services or update existing ones with controlled authentication options.

Example Use Case: Scalable Report Generation Service

Automate on-demand analytics or compliance report generation by deploying a stateless Cloud Run service that executes via a daily scheduled workload, stores results securely in Google Cloud Storage, and optimizes performance and cost through automatic scaling.

AutoSys Features

- ✓ Schedule execution of Google Cloud Run jobs
- ✓ Monitor to completion Google Cloud Run jobs
- ✓ Retrieve Google Cloud Run jobs logs for problem diagnosis
- ✓ Alert on failure of Google Cloud Run jobs processing
- ✓ Create dependencies between Google Cloud Run jobs executions
- ✓ Incorporate Google Cloud Run jobs processing in existing enterprise automation workflows including dependency enforcement



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Google Cloud Storage

Google Cloud Storage (GCS) is a highly scalable, secure, and durable object storage service provided by Google Cloud for storing and accessing unstructured data, such as images, videos, backups, and large datasets. It offers a range of storage classes, including Standard, Nearline, Coldline, and Archive, allowing users to optimize costs based on data access frequency and retention needs. Cloud Storage is ideal for use cases like data archiving, content delivery, backup, and disaster recovery.

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Benefits and Use Cases

- Seamlessly integrate GCS operations into larger automated workflows.
- Upload, download, copy, move, or delete objects in Google Cloud Storage and check whether specific objects or folders exist in your automation workflow.
- Monitor and log storage operations in real time.

Example Use Case: Automated Data Movement and Archival

Track all storage activity with integrated monitoring and automate scheduled log file transfers from on-premise systems to GCS, verify backup files before downstream tasks, and trigger notifications or additional jobs based on upload success.

AutoSys Features

- ✓ Monitor GCS objects for create, update or for existence
- ✓ Schedule up/download of GCS cloud storage objects
- ✓ Delete GCS objects
- ✓ Retrieve processing log for problem diagnosis
- ✓ Alert on failure of GCS processing or if it is late
- ✓ Create dependencies between GCS objects
- ✓ Incorporate GCS objects in existing enterprise automation workflows including dependency enforcement

>> Native Job Type in v24.1+

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IBM Cloud Object Storage

IBM Cloud Object Storage (COS) is a highly scalable, secure, and cost-effective cloud storage solution designed to store and manage vast amounts of unstructured data, such as documents, images, videos, backups, and big data. It uses a distributed architecture that ensures durability, availability, and fault tolerance across multiple regions, making it ideal for data archiving, content delivery, backup, and disaster recovery. IBM Cloud Object Storage offers flexible storage tiers, including Standard, Vault, and Cold Vault, allowing users to optimize costs based on their data access patterns and retention needs.

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Benefits and Use Cases

- Automate the upload, download, copy, and delete operations on objects in IBM Cloud Object Storage.
- Check whether specific objects or folders exist in your automation workflow.
- Monitor and log storage operations in real time.
- Seamlessly integrate IBM Storage operations into larger automated workflows.

Example Use Case: Automated Data Archival

Optimize on-premise storage by triggering scheduled jobs that compress, upload, and verify inactive files in IBM Cloud Object Storage, delete local copies upon successful upload, and track all activity through real-time integrated monitoring.

AutoSys Features

- ✓ Monitor IBM COS objects for create, update or for existence
- ✓ Schedule up/download of IBM COS cloud storage objects
- ✓ Delete IBM COS objects
- ✓ Retrieve processing log for problem diagnosis
- ✓ Alert on failure of IBM COS processing or if it is late
- ✓ Create dependencies between IBM COS objects
- ✓ Incorporate IBM COS objects in existing enterprise automation workflows including dependency enforcement



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Informatica Intelligent Cloud Service

Informatica Intelligent Cloud Services (IICS) is a comprehensive, cloud-native data integration platform that enables organizations to manage, integrate, and transform data across a wide range of cloud and on-premises environments. Designed for scalability and flexibility, IICS offers tools to orchestrate data integration, data quality, API management, and application integration. It allows businesses to streamline ETL (Extract, Transform, Load) processes, synchronize data between applications, and ensure data consistency across systems. With its low-code, drag-and-drop interface, IICS empowers users to build complex workflows with minimal coding.

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Benefits and Use Cases

- Simplify hybrid cloud integration by coordinating cloud and on-premises jobs.
- Centralize execution, monitoring, logging and status of IICS tasks and taskflows directly from AutoSys.

Example Use Case: Hybrid Data Synchronization

Automate daily data synchronization between a cloud CRM system and an on-premise database, triggering a scheduled IICS taskflow that extracts customer data, loads it into an on-premise database for operational use, and monitors execution status in real time to capture logs and alerts for efficient troubleshooting.

AutoSys Features

- ✓ Schedule, Run and Monitor IICS data integration jobs to completion
- ✓ Resume suspended IICS data integration jobs
- ✓ Stop a running Task or Taskflow
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of IICS Tasks and Taskflows
- ✓ Incorporate IICS processing in existing enterprise automation workflows including dependency enforcement

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Kubernetes/OpenShift

Kubernetes is an open-source container orchestration platform that orchestrates containerized applications' deployment, scaling, and management, making handling complex, multi-container environments easier. It enables organizations to efficiently run distributed applications across clusters of hosts while ensuring high availability, load balancing, and scalability. OpenShift, built on top of Kubernetes, is Red Hat's enterprise-grade platform that extends Kubernetes with additional developer tools, security features, and operational management capabilities.

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Benefits and Use Cases

- Automate and control containerized workloads across the enterprise by running and monitoring Kubernetes or OpenShift jobs and Kubernetes Custom Resource Definitions (CRDs) to completion.
- Scale Deployments, StatefulSets, or OpenShift DeploymentConfigs up or down.
- Execute commands inside Kubernetes or OpenShift pods and perform dynamic variable substitution within job definitions.

Example Use Case: Automated Scaling and Job Execution

Optimize costs and efficiency by scheduling Kubernetes data processing jobs that automatically scale up resources before execution, run validation commands in specific pods upon completion, scale down post-execution, and provide real-time monitoring.

AutoSys Features

- ✓ Schedule, Run and Monitor Kubernetes and OpenShift jobs to completion
- ✓ Scale up/down OpenShift DeploymentConfigs
- ✓ Scale up/down Kubernetes deployments
- ✓ Execute command in Pod, OpenShift DeploymentConfig pods, Kubernetes deployment pods
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of any scheduled activity
- ✓ Incorporate Kubernetes and OpenShift into enterprise automation workflows including dependency enforcement

>> Native Job Type in v12.1+

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OpenSSH

OpenSSH is the premier connectivity tool for remote login and operations with the SSH protocol. It encrypts all traffic to eliminate eavesdropping, connection hijacking, and other attacks. In addition, OpenSSH provides a large suite of secure tunneling capabilities, several authentication methods, key management, and sophisticated configuration options.

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Benefits and Use Cases

- Automate remote command execution, executable execution, and file transfer operations within workload automation workflows without exposing credentials or data over unencrypted channels.
- Automate infrequent or ad-hoc tasks without installing an agent on the target system.

Example Use Case: Monitoring and Log Retrieval

Automate the collection of system logs or performance metrics from remote hosts for centralized analysis in tools like Splunk.

AutoSys Features

- ✓ Execute SSH commands and file operations in a remote machine
- ✓ Monitor and manage the SSH jobs
- ✓ Retrieve processing log for problem diagnosis
- ✓ Alert on failure of SSH jobs processing or if it is late
- ✓ Create dependencies between SSH jobs
- ✓ Incorporate SSH jobs in existing enterprise automation workflows including dependency enforcement

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Oracle Cloud ERP

Oracle Cloud ERP is a comprehensive suite of enterprise resource planning (ERP) applications delivered through the cloud. It is designed to help organizations streamline and automate core business functions like financial management, procurement, project management, and risk management. It offers real-time visibility into financial performance, enabling businesses to make data-driven decisions while reducing operational costs.



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ERP CLOUD

Benefits and Use Cases

- Orchestrate end-to-end workflows that involve ERP integrations, HCM flows, data loading, and report generation, improving operational efficiency and control.
- Run and monitor jobs for Oracle Cloud ERP Integration Service, Oracle Enterprise Scheduler (ESS), Oracle Cloud HCM Flow Actions, Oracle Cloud HCM Data Loader, and Oracle Cloud BI Publisher.
- Upload files to and download files from Oracle UCM.

Example Use Case: End-to-End HCM Data Load and Reporting

Automate the end-to-end HCM data import and reporting process from file upload to Oracle UCM and HDL job execution through BI Publisher validation and audit download to ensure full compliance with real-time status tracking.

AutoSys Features

- ✓ Schedule, Run and Monitor Oracle Cloud ERP Integration Services to completion
- ✓ Schedule, Run and Monitor Oracle ESS Jobs and Job Sets to completion
- ✓ Schedule, Run and Monitor Oracle Cloud HCM Data Loader and Flow Actions to completion
- ✓ Schedule, Run and Monitor Oracle Cloud BI Publisher jobs to completion
- ✓ Upload and download files to UCM
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of any scheduled activity

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Oracle Cloud Infrastructure

Oracle Cloud Infrastructure (OCI) is a next-generation cloud platform that provides a range of high-performance computing, storage, networking, and database services designed to support both traditional enterprise workloads and modern cloud-native applications. Built with a focus on security, scalability, and high availability, OCI offers infrastructure services such as compute, storage, networking, and edge services and advanced database solutions like Oracle Autonomous Database.

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Benefits and Use Cases

- Centralize control by initiating and monitoring integrations directly from the Oracle OCI workspace, enabling streamlined operations and real-time visibility into integration workflows.
- Automate business-critical processes across hybrid environments and improve coordination between applications hosted on OCI and external systems.
- Start and monitor the status and execution of Oracle Integration Cloud (OIC) to completion.

Example Use Case: Automate Fulfillment Across ERP and CRM

Streamline operations and ensure accurate fulfillment by integrating ERP and CRM systems to automatically pull new customer orders, push data for processing, monitor execution, and generate status alerts from a single point of control.

AutoSys Features

- ✓ Schedule and Run OCI Scheduled Integration jobs
- ✓ Monitor OCI Scheduled Integration jobs to completion
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of OCI job
- ✓ Incorporate OCI jobs in existing enterprise automation workflows including dependency enforcement

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Cloud Infrastructure

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Oracle EPM

Oracle Enterprise Performance Management (EPM) is a suite of integrated cloud-based applications designed to help organizations manage and optimize their financial planning, budgeting, forecasting, and reporting processes. Oracle EPM helps finance teams work more efficiently while ensuring accuracy and compliance to streamline financial close, improve decision-making, and align financial strategies with corporate goals.



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EPM

Benefits and Use Cases

- Improve operational efficiency by scheduling and monitoring Oracle EPM activities, such as consolidations, planning cycles, and data loads with other enterprise workflows across on-prem and cloud systems.
- Launch Oracle EPM jobs and business rules and monitor execution status and capture logs for auditing and compliance.
- Schedule consolidation, calculation, planning processes and data imports and exports to/from Oracle EPM applications.

Example Use Case: Automating Financial Close and Reporting

Schedule consolidation and calculation jobs post-ERP data upload, trigger business rules for validation and cost allocation, export final reports to downstream systems, and monitor all EPM processes to eliminate manual intervention and reduce reporting cycle delays.

AutoSys Features

- ✓ Schedule, Run & Monitor Jobs for the following job types:
- ✓ Rules, Rulesets, Import Data
- ✓ Supports Basic Authentication and OAuth 2 with or without Proxy:
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of EPM job
- ✓ Incorporate EPM processing in existing enterprise automation workflows including dependency enforcement

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Power BI

Microsoft's Power BI is an analytics platform that transforms raw data from multiple sources into actionable, interactive insights. It allows users to clean, model, and visualize data through dynamic dashboards and reports, making it much easier to identify trends and make data-driven decisions.

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Benefits and Use Cases

- Schedule and trigger Power BI report refreshes and dataset updates as part of end-to-end workflows for accurate, up-to-date reports, dashboards and planning.
- Embed Power BI jobs into enterprise-wide processes to deliver reliable analytics without manual effort or delays.

Example Use Case: Automated Sales Reporting

Schedule a Power BI dataset refresh after sales transaction data is updated in the ERP system, then automatically refresh linked dashboards and distribute reports to stakeholders to reflect the latest revenue, pipeline, and inventory KPIs.

AutoSys Features

- ✓ Execute Power BI for data refresh
- ✓ Monitor and manage Power BI jobs
- ✓ Retrieve processing log for problem diagnosis
- ✓ Alert on failure of Power BI processing or if it is late
- ✓ Create dependencies between Power BI jobs
- ✓ Incorporate Power BI jobs in existing enterprise automation workflows including dependency enforcement

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SAP BTP Job Scheduler

SAP Business Technology Platform (BTP) Job Scheduler is a service that enables users to automate and manage the execution of tasks or jobs in cloud applications within the SAP ecosystem. It allows developers and administrators a basic scheduler to run jobs at specific times or intervals, either as one-time tasks or as recurring events.



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Benefits and Use Cases

- Orchestrate Job Scheduling Service (JSS) operations from AutoSys to centralize automation of complex workflows, ensure the timely execution of critical business processes, and gain real-time visibility into job execution.
- Integrate recurring and event-driven Job Scheduler tasks on SAP BTP with broader enterprise workflows that span on-prem and cloud applications.

Example Use Case: Orchestrating SAP Job Scheduler Workflows

Execute scheduled tasks such as data transformations, file processing, or API calls through SAP BTP with dependent tasks in other systems, such as SAP S/4HANA, data warehouses, and third-party applications, ensuring end-to-end workflow orchestration.

AutoSys Features

- ✓ Schedule and Run for any Service Instances that are bound to an application on the SAP BTP cockpit
- ✓ Monitor process to completion
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of SAP BTP job
- ✓ Incorporate SAP BTP processing in existing enterprise automation workflows including dependency enforcement

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SAP Business Objects

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SAP Business Objects is a comprehensive business intelligence (BI) tool suite designed to help organizations transform raw data into actionable insights. It enables users to create reports, perform ad-hoc queries, and analyze large datasets through interactive dashboards and data visualization tools. SAP Business Objects empowers business users and analysts to explore data without needing advanced technical skills.



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Benefits and Use Cases

- Schedule and monitor Web Intelligence Documents, Crystal Reports and Publications with full visibility to execution results and status in AutoSys for streamlined troubleshooting and compliance tracking.
- Orchestrate end-to-end extract, transform, and load (ETL) data processing batch jobs in SAP BODS for accurate downstream business processes, with detailed execution logs for audits or troubleshooting.

Example Use Case: Automated Financial Reporting

Ensure reliable delivery of reports to stakeholders with Web Intelligence Documents or Crystal Reports on scheduled intervals, with chained downstream processes such as data exports, approvals, or notifications.

AutoSys Features

- ✓ Schedule and Run SAP BODS Batch Jobs, Crystal Reports and Web Intelligence Documents
- ✓ Monitor SAP BI jobs to completion
- ✓ Supports destinations to email, inbox, FTP and SFTP
- ✓ Retrieve processing log for problem diagnosis
- ✓ Alert on failure of SAP Business Objects processing or if data is late
- ✓ Incorporate SAP BI processing in existing enterprise automation workflows including dependency enforcement

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SAP Data Intelligence

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SAP Data Intelligence (SAP DI) is a comprehensive data management and integration platform designed to help organizations extract, process, and transform data from disparate sources into valuable insights. It enables seamless data orchestration across on-premises, cloud, and hybrid environments, connecting diverse data landscapes such as SAP systems, third-party databases, data lakes, and IoT streams. SAP Data Intelligence ensures that organizations can trust and utilize their data effectively, helping drive digital transformation and data-driven decision-making.

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Data Intelligence

Benefits and Use Cases

- Automate and monitor complex SAP DI data workflows from within AutoSys, ensuring streamlined data pipeline execution and operational efficiency.
- Incorporate SAP DI processing in existing enterprise automation workflows including dependency enforcement

Example Use Case: Automated Data Pipeline Orchestration

Schedule nightly DI pipeline workflows to extract, transform, and load (ETL) data from multiple sources and seamlessly chain other SAP DI jobs for downstream reporting or machine learning, improving responsiveness and reducing manual handoffs.

AutoSys Features

- ✓ Schedule and run SAP DI Graphs on the target SAP Data Intelligence environment
- ✓ Monitor to completion the execution and status transitions of the SAP DI jobs
- ✓ Stop SAP DI jobs
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of SAP DI jobs



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SAP ERP Cloud

SAP ERP Cloud is a cloud-based enterprise resource planning solution designed to help organizations efficiently manage their core business processes, including finance, procurement, human resources, manufacturing, and supply chain operations. SAP ERP provides a unified view of business data and enables better collaboration across departments.

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Benefits and Use Cases

- Automate SAP Data Services jobs to integrate data movement and transformation workflows into end-to-end business processes.
- Schedule and execute SAP IBP jobs and workflows for data uploads, optimizer runs, and time-series updates for accurate planning operations.
- Capture results and logs to validate accuracy and ensure end-to-end traceability for reporting, analytics and audits.

Example Use Case: Weekly Demand Planning Automation

Streamline weekly demand forecasts end-to-end from AutoSys, automating data integration tasks that import market data and historical sales figures with execution of optimizer jobs to generate supply plans.

AutoSys Features

- ✓ Schedule and run SAP IBP & SAP DSoD jobs on the target SAP Cloud ERP environment
- ✓ Monitor to completion the execution and status transitions of the SAP IBP or SAP DSoD jobs
- ✓ Stop SAP IBP or SAP DSoD jobs
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of SAP IBP or SAP DSoD processing
- ✓ Incorporate SAP ERP processing in existing enterprise automation workflows including dependency enforcement

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SAP Integration Suite

SAP Integration Suite is a modern, secure integration platform as a service (iPaaS) that connects AI agents, applications, data, and processes across SAP and third-party environments from one secure platform with built-in governance.



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Benefits and Use Cases

- Automate business-critical integrations by embedding SAP jobs into enterprise-wide processes.
- Schedule, trigger, and monitor execution of SAP Integration Suite iFlows in real time as part of end-to-end business workflows.
- Minimize manual intervention and ensure reliable, repeatable execution.

Example Use Case: Order Processing Automation

Schedule SAP Integration Suite iFlows to orchestrate incoming sales orders from an e-commerce platform to SAP S/4HANA, and update inventory, generate invoices, and notify logistics providers, with full visibility to execution progress and results in real time within AutoSys.

AutoSys Features

- ✓ Execute SAP Integration Suite iFlows
- ✓ Monitor and manage the status of SAP Integration iFlows
- ✓ Retrieve processing log for problem diagnosis
- ✓ Alert on failure of SAP Integration Suite processing or if it is late
- ✓ Create dependencies between SAP Integration Suite objects
- ✓ Incorporate SAP Integration Suite in existing enterprise automation workflows including dependency enforcement

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SAP S/4HANA Application Jobs

SAP S/4HANA application jobs are scheduled background tasks that automate routine or heavy data-processing activities. They replace older legacy background processing by allowing users to efficiently plan, monitor, and execute business operations—such as financial close processes, material requirement planning (MRP) runs, or data archiving—without manual intervention.

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Benefits and Use Cases

- Schedule and trigger SAP S/4HANA application jobs directly from AutoSys for end-to-end visibility and management of business-critical workflows.
- Unify command and control, monitoring, alerting, SLA management, reporting and auditing of SAP jobs into enterprise-wide processes and views.

Example Use Case: End-of-Day Financial Processing

Run scheduled daily financial reconciliation, reports and data extracts after business hours without manual oversight to ensure consistent and accurate execution of financial operations, with a full audit trail of job output and processes.

AutoSys Features

- ✓ Execute SAP Application Jobs
- ✓ Monitor and manage the SAP Application Jobs
- ✓ Retrieve processing log for problem diagnosis
- ✓ Alert on failure of SAP Application Jobs processing or if it is late
- ✓ Create dependencies between SAP Application Jobs objects
- ✓ Incorporate SAP Application Jobs in existing enterprise automation workflows including dependency enforcement

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VMware Cloud Foundation Automation (Aria)

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VMware Cloud Foundation (VCF) Automation empowers application teams with self-service access to infrastructure resources enabling seamless deployment, management and faster delivery of modern applications. With VCF, developers and DevOps teams can independently provision Kubernetes clusters, VMs, and infrastructure-as-a-service (IaaS) resources.

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Benefits and Use Cases

- Automate infrastructure lifecycle and operational tasks by embedding Aria jobs into enterprise-wide processes.
- Schedule and trigger Aria automation blueprint deployments to provision infrastructure resources and execute Aria workflows as part of end-to-end automation pipelines with real-time monitoring.
- Minimize manual intervention and ensure reliable, repeatable execution with built-in retry, polling, and failure controls.

Example Use Case: Infrastructure Provisioning and Operations

Fully automate the deployment of a new application version, apply critical server patches, and validate the system across multiple environments, all orchestrated by AutoSys.

AutoSys Features

- ✓ Run Workflows and deploy Blueprints
- ✓ Monitor and manage the Workflows and Blueprints
- ✓ Retrieve processing log for problem diagnosis
- ✓ Alert on late or failed Workflows and Blueprints Jobs processing
- ✓ Create dependencies between Workflows and Blueprints Jobs objects
- ✓ Incorporate Workflows and Blueprints Jobs in existing enterprise automation workflows including dependency enforcement

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Workday

Workday is a cloud-based enterprise software solution that provides comprehensive tools for managing financials, human resources, payroll, and talent management in a single unified platform. Designed for scalability and flexibility, Workday helps organizations streamline core business functions such as workforce planning, employee management, recruiting, and financial planning.



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Benefits and Use Cases

- Streamline Workday business processes, such as onboarding, payroll, and talent management workflows through scheduled jobs within AutoSys.
- Ensure successful completion of time-sensitive financial and human resources processes whether triggered on demand or on scheduled intervals.

Example Use Case: Automating Payroll Processing

Use the Workday Plugin Extension to automate and monitor the end-to-end payroll processing cycle for every pay period, including audit logs for compliance tracking.

AutoSys Features

- ✓ Schedule and run Workday Integration jobs
- ✓ Monitor Workday integration jobs to completion
- ✓ View execution log for problem diagnosis
- ✓ Alert on failure of Workday Integration jobs
- ✓ Incorporate Workday Integrations into enterprise automation workflows including dependency enforcement

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