ActiveBatch®
from Advanced Systems Concepts, Inc.

Bring Automation and Scalability to Your Hybrid IT Infrastructure Environment

Adoption of a hybrid IT infrastructure environment couples the benefits of on-prem data control with the cost effectiveness of the cloud. The result is IT's ability to respond quickly to changing business needs. Automation in a hybrid environment requires a highly reliable solution that's also designed to accommodate a dynamic infrastructure. ActiveBatch, the industry-leading IT Automation solution, offers tools and integrations to help IT professionals easily and reliably manage automated processes within hybrid environments. With ActiveBatch, users can integrate and coordinate disparate infrastructure resources from a single dashboard. From efficiently allocating job load to scaling cloud resources, ActiveBatch facilitates the monitoring and management of on-premise, private-cloud, and public-cloud resources.

ActiveBatch Capability: Automated Cloud/Virtual Resource Provisioning

With ActiveBatch Managed/Smart Queue facilities, ActiveBatch provisions additional computing resources on demand for improved workload performance; additionally, operations can *automate* the provisioning of resources across virtual and cloud systems, **dynamically scaling up or down** resources based on real-time demands and historical analysis of past scheduling periods. Because of these capabilities, organizations can optimize their virtual/cloud computing environments while minimizing unnecessary expense, allowing IT operations to more easily meet SLAs and other business deadlines by increasing the likelihood successful, on-time job completion.

ActiveBatch Capability: Machine-Learning-Based Heuristic Queue Allocation for Seamless Scalability

ActiveBatch Heuristic Queue Allocation (HQA) allows for seamless scalability by bringing the power of Machine Learning to IT Automation. HQA analyzes, on a daily basis, historical instance data and predicts the optimal allocation of Execution Queues (machine paths/resources) for improved workload performance, intelligently distributing load across all available and acceptable Execution Agents, sharply reducing slack time and idle machine resources.

ActiveBatch Capability: Dynamic Queue Characteristics for Specific Resource Requirements

Users can assign custom dynamic characteristics to queues, instructing ActiveBatch to evaluate multiple servers before submitting jobs to the servers on which they are going to run. For example, developers can configure workflows to monitor available disk space and registry values, using these dynamic characteristics to make sure jobs are paired with machines capable of completing the tasks, which in turn helps ensure successful and timely job completion.

ActiveBatch Capability: Cloud/Virtual Machine Provider Integration

The ActiveBatch Integrated Jobs Library offers hundreds of production-ready Job Steps—prebuilt, pretested, drag-and-drop actions and functions ready to be assembled into workflows. Job Steps for private/public virtual- and cloud-based resources allow users to easily and reliably construct workflows that include actions like provisioning, deprovisioning, terminating, managing, and configuring resources, and more. Additionally, ActiveBatch provides robust event-driven automation capabilities, supporting dozens of events that can trigger other related tasks. Integrations include:

- Amazon EC2
- Microsoft Azure
- Hyper-V
- VMware
- And more…