

### Reduce Operating Expenses by Dynamically Managing Cloud Resources with "Just In Time" Resource Provisioning

#### Problem:

As IT organizations increasingly rely on virtual and cloud-based environments, managing the provisioning and de-provisioning of these resources presents a challenge in tracking and delivering optimum SLA performance for workload management. Coordinating the availability of hosts through power management, preserving and restoring machine states through snapshots and configuring servers for specific tasks can be challenging. Add to this that the growing number and increasing variety of virtualized and cloud computing vendors comprising your IT environment, and it becomes clear that a single point of visibility, control and management over business processes operating within these environments is required

#### Solution:

ActiveBatch® allows IT organizations to combine dynamic workload automation and management with the power and flexibility of cloud computing. The ActiveBatch® Extension for Amazon EC2 allows users to automate the provisioning and management of Amazon EC2 instances within workflows that can manage other applications, databases and systems, all from within the centralized interface of ActiveBatch. Extend EC2 scheduling by allowing ActiveBatch's event automation capabilities to be added to Amazon EC2 processes, such as triggers, constraints, dependencies and more.

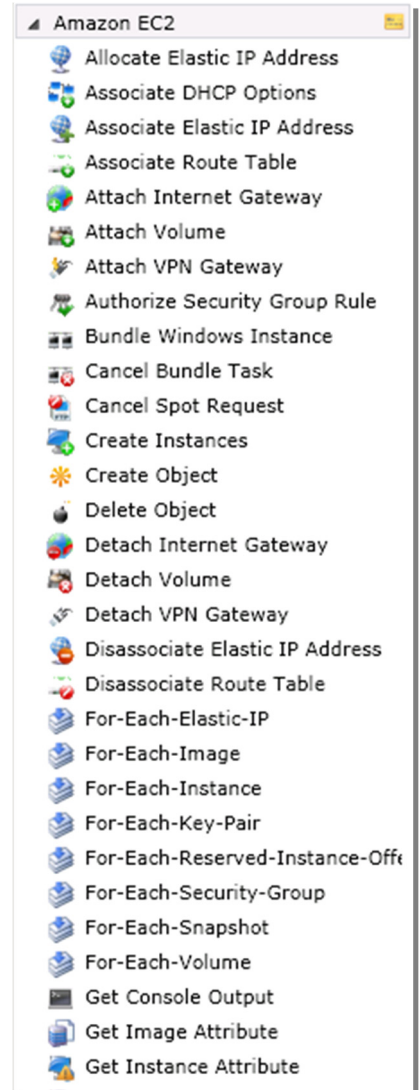
The ActiveBatch Extension for Amazon EC2 provides users with over 60 Job Steps to automate various Amazon EC2 tasks, including the provisioning and de-provisioning of EC2 machines, the management of individual or groups of instances based on pricing parameters, security tasks, machine snapshots, rebooting, synchronizing or terminating instances and much more. These Job Steps are designed to provide users with a broad range of automation capabilities.

#### Example:

A developer can build workflows that automatically provision and de-provision Amazon resources based around the execution and completion of workflows. An EC2 administrator can automate tasks around the administration and day-to-day management of an Amazon environment.

Amazon EC2

ActiveBatch Version 9 and above



ActiveBatch also provides for the automated provisioning of Amazon EC2 instances. Rather than manually building Amazon EC2 Job Steps into individual ActiveBatch workflows, users can leverage ActiveBatch's Smart Queue capabilities, allowing ActiveBatch to automatically provision EC2 instances based on parameters and thresholds established by the user. This guarantees that workflows tied to SLAs are met by ensuring sufficient resources are allocated for scheduled workloads by automatically provisioning and de-provisioning Amazon resources when necessary.

With ActiveBatch, a user can automate the provisioning, configuration and snapshot of an EC2 instance based on a workflow that only needs to run when a certain IT event occurs, such as an email being received. The workflow could power up the EC2 instance up, run the job, take a snapshot for checkpoint backups and de-provision the machine to conserve resources. Additionally, workflows such as these can be integrated with other operations throughout the enterprise by leveraging the ActiveBatch Integrated Jobs Library and Extensions, which provides over 100 production-ready Job Steps for various third-party applications, databases and systems.

## Benefits

- Reduce operating expenses by dynamically provisioning and managing cloud resources with "just in time" resource provisioning.
- Ensure SLAs are met by automatically provisioning and de-provisioning Amazon EC2 resources.
- Integrate Amazon EC2 operations as part of enterprise-wide business processes allowing IT to gain better control of workloads running across virtualized and cloud environments.
- Link the execution of business processes and data center operations to streamline and improve data center automation and efficiency.

## Partnership

- Advanced Systems Concepts, Inc. is a Registered Amazon Web Services Partner.

## About Amazon EC2

- Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides resizable compute capacity in the cloud. It is designed to make web-scale computing easier for developers.



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