

# CA Automic OpenStack Action Pack

Orchestrate all the moving parts—people, process and technology—involved in managing and deploying to OpenStack controlled clouds.

## At A Glance

The CA Automic OpenStack Action Pack allows users to build, provision, configure and manage servers in a public or private cloud managed by OpenStack. CA's OpenStack integration for CA Continuous Delivery Automation and CA Automic Service Orchestration allows you to build visual workflows that include OpenStack compute services as part of a deployment or release process, giving valuable time back to developers and/or administrators but also assuring that fewer errors occur.

### KEY BENEFITS

- Ease the efforts of developers, application engineers, and system administrators to create, deploy and run applications by automatically provisioning or de-provisioning OpenStack environments or servers as part of continuous delivery workflows or pre-approved, self-help runbooks.
- Ship code and environment/server as one coherent, deployable package that can be automatically promoted to or matured into production.
- Standardize an OpenStack best practice for application deployments and avoid expensive cloud sprawl.

### KEY FEATURES

#### CA Continuous Delivery Automation

- Provides the highest level of scale to meet enterprise demands. Support for 500k-to-1 deployment endpoint on a single clustered server
- Offers out-of-the box action packs for generic deployment tasks/runbooks and application platforms including leading database, middleware, Web server, messaging, SaaS and PaaS platforms
- Provides tight integration with application lifecycle management tools
- Leverages your existing open source software investment (skillsets and tooling) and extends the reach of OSS tools by including them within automated continuous delivery workflows/pipelines
- Provides support for all popular deployment strategies such as canary, blue-green, rolling and dark launch.

## Business Challenges

Today, applications and data are stored or hosted in the cloud, which allows companies to pay for only what they need, when they need it, and for their employees to have access to these systems from anywhere, at any time during the day or night.

Cloud computing requires that a computing platform exist "out there" in the cloud, on which these remote apps can run. A number of cloud platforms are available from different vendors, including Amazon, Microsoft AZURE™, Oracle, IBM and Google, among others. OpenStack software controls large pools of compute, storage and networking resources throughout a public or private cloud platform, managed through a dashboard or via the OpenStack API. OpenStack works with popular enterprise and open source technologies, making it ideal for heterogeneous infrastructure.

With companies using thousands, or hundreds of thousands, of VMs under OpenStack, it is critical that these computing resources do not remain siloed or confined to separate environments or teams. To maximize the benefits of OpenStack and reduce its potential complexity, OpenStack needs to be embedded within the automation mechanics of a continuous delivery pipeline or self-help service orchestration.

## Solution

The CA Automic OpenStack Action Pack combines an integrated application packaging system, smart deployment models and out-of-the-box actions for common deployment tasks with robust workflow design and high-volume execution capability.

The CA Automic OpenStack Action Pack allows users to build, provision, configure and manage servers in a public or private cloud managed by OpenStack as part of an automated application deployment process or as a pre-approved, self-help process.

Optimized for enterprise environments, the CA Automic One Automation Platform accelerates deployments to OpenStack environments, ensures the quality of deployments, and minimizes management overhead to help both development and operations enable business growth.

## Critical Differentiators

**Largest scale:** Support for 500k-to-1 deployment endpoint on a single clustered server. CA Continuous Delivery Automation is the only tool that provides this level of scalability for a single installed instance.

**Broadest scope:** Support for the entire IT portfolio, including mainframe to microservices and everything in-between, while packaged apps, such as Siebel, are also supported. With CA Continuous Delivery Automation, the entire IT portfolio is empowered to drive measurable results to the business.

## KEY FEATURES

### CA Automic Service Orchestration

- Fully orchestrated service delivery across all departments at the push of a button
- Single point of control for full-stack service delivery
- Rapid, reliable service delivery on premises, in the cloud or in hybrid environment—without the delays or errors caused by manual tasks and handoffs

### The CA Automic One Automation Platform

- Includes plug-ins broadest platform and environment support in the industry—from mainframe to microservices and everything in between
  - Workflows are decoupled from any environment setting, credential or permission data, as well as the content that they execute
  - Includes plug-ins for leading database, middleware, Web server, messaging, SaaS and PaaS platforms
  - Automatic rollback lets you recover quickly and safely when things go wrong
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**Out-of-the-box OpenStack actions :** Continuous delivery workflows are assembled from a library of built-in actions, which replace manual deployments and scripts. The library consists of hundreds of actions for generic deployment tasks, with specific OpenStack actions that allow you to:

- Get Authentication Token Action
- List Servers Action
- Get Server Details Action
- Create Servers Action
- Change Server State Action
- Create Server Snapshot Action
- Check Server Status Action
- List Snapshots Action
- Delete Server Action
- Assign/Remove Floating IP

**Deepest compliance and audit support :** CA provides more than just visibility into deployment plans/pipelines and the who, what, when, where and how of every deployment. CA Continuous Delivery Automation can provide insight into what was changed outside of its control or purview. A unique snapshot mechanism lets you compare configurations and file contents between live deployment endpoints. CA Continuous Delivery Automation Snapshots allow users to spot any changes made to apps outside of your automation mechanics.

**Automation-as-code:** Modern cloud infrastructure is described and managed as code, and modern DevOps and continuous delivery teams work in code; the role of code has moved beyond developers. CA Continuous Delivery Automation provides as-code capabilities allowing you to ensure an automation standard across the enterprise with minimal adoption and process friction.

**Support of open source software:** CA Continuous Delivery Automation provides a very large, and ever-increasing, set of pre-built integrations that will allow every team across the enterprise to use the OSS tooling that best fits their skill set and needs while still providing the enterprise with an automation standard that delivers bottom-line financial results to the business.

**Interface and adoption flexibility:** CA Continuous Delivery Automation empowers development, QA and ops with self-service capabilities leveraging a flexible interface layer. UI, API or Web services allow all DevOps knowledge workers to access pre-built functionality (e.g., provisioning a multi-cloud environment) or interoperate with your deployment pipelines in the manner most comfortable for them. This interface flexibility leads to higher productivity output from your SDLC personnel.

**Continuous delivery or service orchestration powered by a pervasive automation platform:** The CA Automic One Automation Platform allows automation to become pervasive throughout the enterprise by incrementally replacing multiple ad hoc tools with a standard automation platform, allowing businesses to scale their investment across people, processes and technology. The CA Automic One Automation Platform executes core business, application and infrastructure processes—whether on-premises, in the cloud or for the hybrid in between—providing visibility and control across the entire business.

For more information, please visit [ca.com](https://ca.com)

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