

A close-up photograph of a person's eye, showing the iris and eyelashes, set against a background of vertical color bars transitioning from blue to orange.

# ca World®'14

DevCenter

## Release Automation Coexistence In The Enterprise

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Session Number

Invent Tomorrow



# Abstract

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Want to leverage your existing technology investment while you're on your journey towards Continuous Delivery and DevOps? Join us in this session and see all the new and exciting integrations we are delivering on a monthly basis to allow you to do just that. From Jenkins and TFS to Chef and Puppet, databases and middleware - CA Release Automation Action Packs and Plug-ins are the key components to enable you to integrate your entire Continuous Delivery tool chain without having to start from scratch.

# Agenda

1 CHALLENGES

2 COMPLEXITY

3 TOOL CHAIN

4 ORCHESTRATION & INTEGRATION

5 SOLUTIONS

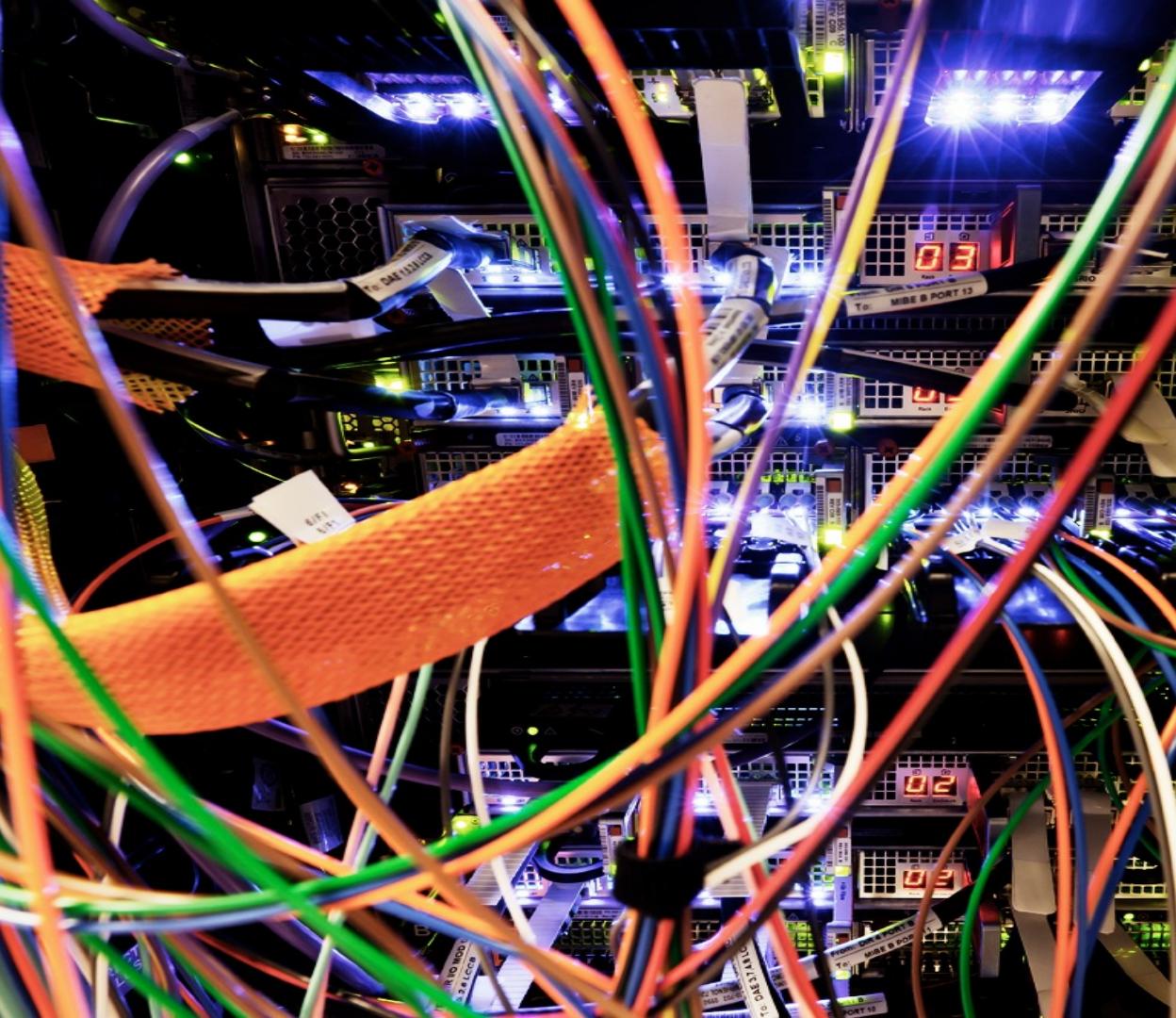
6 DEMONSTRATION

# Challenges

## Application Delivery is complex

- 100's, 1000's, 10,000's machines
- Provision and Configure
- Middleware, Databases, Load Balancers
- Applications with 100's of artifacts in multiple repositories
- Myriad of SDLC tools
- Balancing speed with quality





Complexity



# Tool Chain



Visual Studio



vmware®



ANSIBLE



SOASTA



servicenow



Build/CI  
Store



Provision



Configure



Deploy



Test



Promote

# Orchestration

RA business processes and metadata are oriented to optimize the application lifecycle, with specific focus on environments, artifacts, deployment, and release.

The core of RA is a enterprise class workflow engine for process automation, combined with an integration framework for orchestration of the application lifecycle to fulfill those business processes.

This is intrinsic to the value proposition, and CA has made substantial investments in enhancing these capabilities.

# Integration

## Orchestration with integration are key aspects of RA

- Scalable and robust workflow, reduces scripting, fosters automation

## Action Packs of workflow activities for outbound integrations

- 100+ packs, including CA and community supported
- Rapid Dev Kit, patent pending, for quick packs
- Eclipse plug-in Java SDK for coding packs

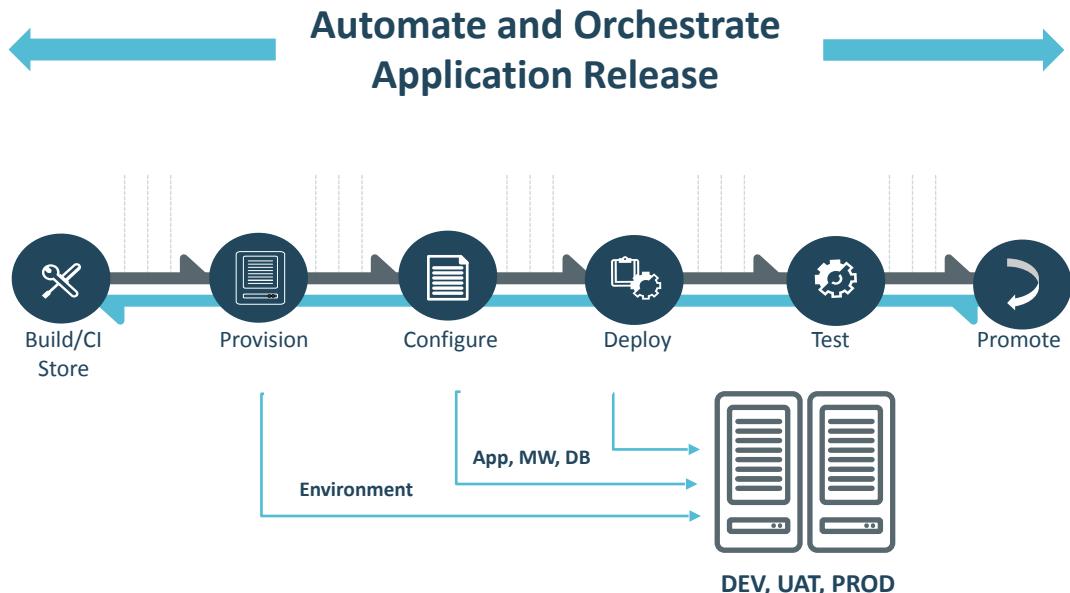
## Plug-ins and REST API for inbound integration

- Plug-ins to facilitate deployments from CI servers and service desks
  - Extension to third-party product with UI and services to deploy

# Orchestrating the Tool Chain

## PUSH-BUTTON SOFTWARE DEPLOYMENT ON-DEMAND

- Orchestrate an end-to-end continuous delivery tool chain
- Eliminate manual intervention by tightly integrating best-of-breed ALM solutions
- Improve productivity and efficiency across all aspects of the application lifecycle



# Enterprise Solution With Strong Ecosystem Integrations

CA RELEASE AUTOMATION PROVIDES OVER 70 ACTION PACKS AND 1300+ ACTIONS

- In-depth of Out-of-the-Box, ready to use actions with no scripting required
- Rapid Development Kit for quick, consistent code generation and packaging for customizing your environment



# CA Release Automation

Inbound: Integration to RA

RA exposes a rich set of web services based on REST and SOAP API, which our customers and partners can use to integrate with RA.

CA leverages these web services to offer pre-built integrations from key applications in the lifecycle, which we refer to as Plug-ins.

Change Management, and Continuous Integration are primary integration points to initiate event driven deployment and release processes in RA.



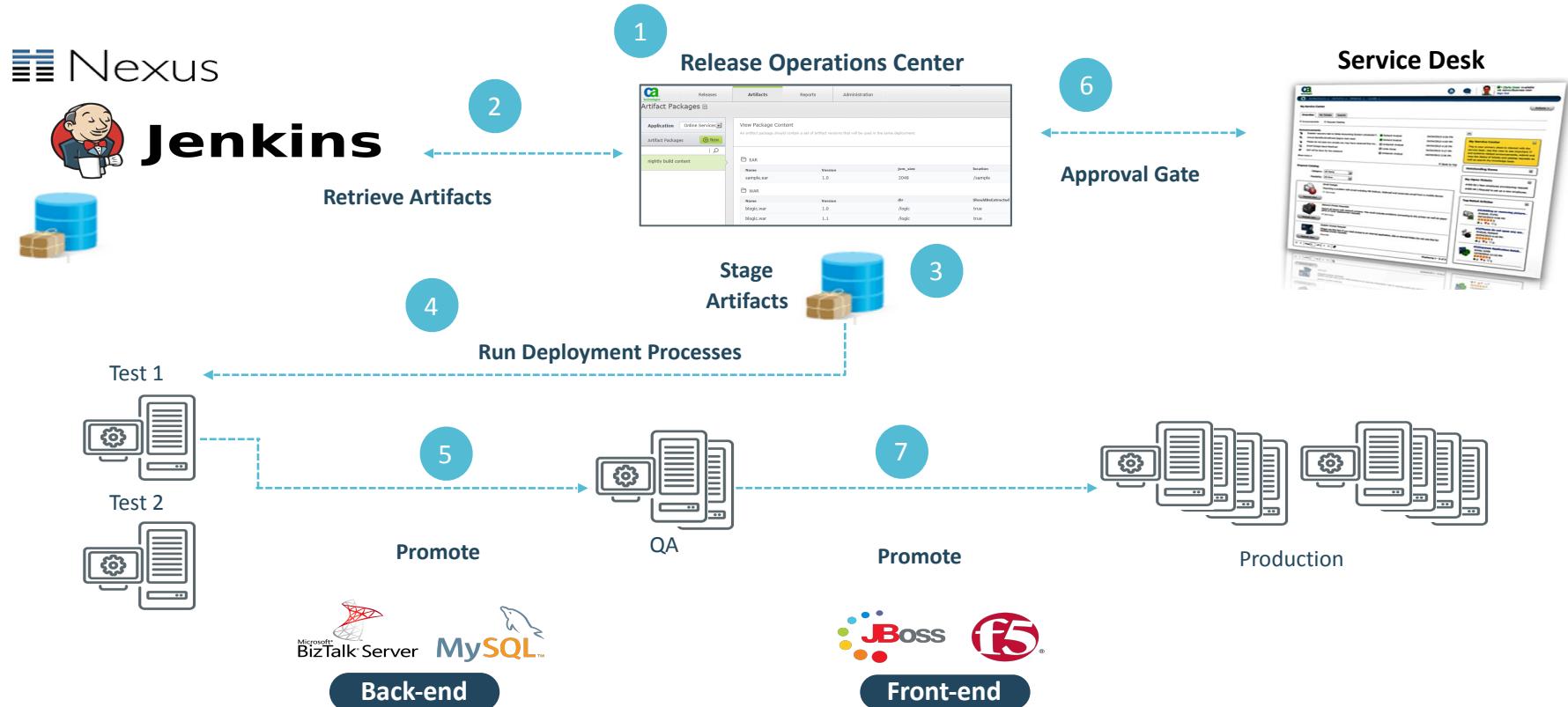
Jenkins



Visual Studio

servicenow

# Continuous Delivery Scenario – Pulling it all together



# CA Release Automation Standard Action Categories

## Outbound: Integration from RA

- Comparison Actions
- Control Actions
- Database Actions
- Development Tool Actions
- Email Actions
- File/Folder Actions
- Installation Actions
- JMX Actions
- Math Actions
- Network Actions
- OS Actions
- Parameter Actions
- Process Actions
- Release Operations Center Actions
- Security Actions
- Servers in Environment Actions
- SNMP Actions
- SSH Actions
- System Actions
- Text Actions
- XML Actions
- JSON Actions
- Repository Actions
- Web Actions

# CA Release Automation Action Packs

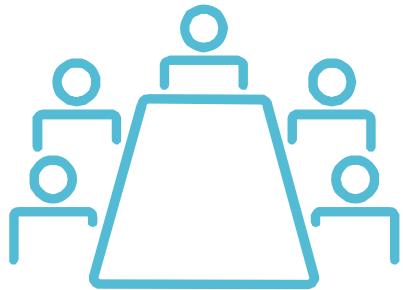
- Amazon Web Services
- Apache HTTP Server
- Apache Subversion
- Apache Tomcat
- Atlassian JIRA
- CA Cloud Manager
- CA Cloud Service Mgmt
- CA Endevor
- CA Harvest
- CA Service Desk
- CA Service Virtualization
- Chef
- Cisco APIC
- F5 BIG-IP
- Git

- HP Quality Center
- IBM Integration Bus
- IBM Rational ClearCase
- IBM Rational ClearQuest
- IBM Rational Team Concert
- IBM WebSphere Application Server
- IBM WebSphere DataPower
- IBM WebSphere MQ
- IBM WebSphere Portal
- Jenkins
- JetBrains TeamCity
- JFrog Artifactory
- Microsoft .NET Global Assembly Cache

- Microsoft Azure
- Microsoft BizTalk
- Microsoft Component Services
- Microsoft Internet Information Services
- Microsoft Messaging Queue
- Microsoft PowerShell
- Microsoft SharePoint
- Microsoft SQL Server
- Microsoft Team Foundation Server
- Oracle Database
- Oracle Glassfish
- Oracle Solaris
- Oracle WebLogic Server

- Perforce Versioning Engine
- Puppet Labs Puppet
- Red Hat JBoss Enterprise Application Platform
- SAP Business Objects
- ServiceNow
- Software AG webMethods
- Sonatype Nexus
- TIBCO ActiveMatrix BusinessWorks
- VMware vCloud Director
- VMware vSphere

# Community



## FORUMS

<https://communities.ca.com/community/ca-release-automation>

- Discussions, blogs and events
- Ideation, polls and events

## REPOSITORY

<http://www.github.com/ca-releaseautomation>

- CA contributed, community supported
- Partner and Customer contributed, community supported

# Development Tools

## RDK

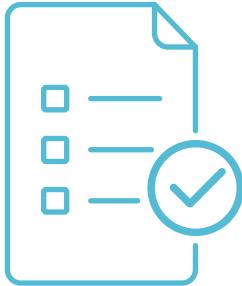
- SysAdmin
- SME for target system and its API
- Ease of Use
- Patents Pending

## SDK

- Java Developer
- SME for target system and its API
- Understanding of orchestration tool's integration framework
- Understanding of the best practices for writing high quality connectors
- Flexibility



# Summary



## Tool Chains

- Complex
- Diverse

## Orchestration & Integration

- Plug-ins, inbound
- Packs, outbound

## Community & Dev Kits

- <https://communities.ca.com>
- RDK & SDK

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Q & A



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**Mark Sigler**

# Biography

Mark Sigler is CA Technologies Senior Director of Product Management with responsibilities in cross portfolio integrated solutions for the IT Operations Management and Applications Delivery markets, primarily creating Cloud and DevOps mindshare and market share.

Prior to CA, Mark was a consultant for a innovative cloud computing initiative for one of the largest financial services firms in Australia. Previously, Mark lead Opalis solution capabilities to become the leading IT Process Automation provider prior to it being acquired by Microsoft and is now known as System Center Orchestrator, and led the HP Software and Oracle product lines and consulting practices for Forsythe Solutions.

Mark has over three decades of crafting innovative customer solutions in technology operations, development, sales and marketing. Mr. Sigler has extensive expertise in large-scale ICT architecture and systems management and has led the programs and projects to architect solutions for high scalability and high availability involving cloud and grid computing, massive scale server and storage systems and virtualization. Mark has driven revenue growth, managed P&L, successfully launched several products and created opportunities with large enterprises, service providers, and innovative start-ups.

Major achievements would include a technical *Emmy* awarded to a major global news network for a groundbreaking digital content management system; business intelligence and data warehousing systems for one of the largest entertainment and hospitality companies; petabyte scale storage and computational grid systems for processing and archiving geo-spatial and imagery across multiple government agencies; and automation and orchestration of complex heterogeneous systems management and virtualization using standards based processes for one of the largest systems integration and outsourcing providers.

