CA Release Automation

Roadmap and Vision

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Agenda

- 1 RELEASE AUTOMATION STRATEGY AND SOLUTION SET
- 2 RELEASE AUTOMATION 6.3
- THE FUTURE...
- 4 RELEASE AUTOMATION 6.4
- 5 DESIGN PARTNER PROGRAM
- 6 Q&A



CA Release Automation Strategic Goals

SHIFT LEFT

Bring release pipeline closers to developers via release-as-code innovation

SHIFT CLOUD

Deploy applications to target on prem and cloud environments; offer Release-as-a-Service (SaaS)

END TO END

Automate dev-to-release pipeline via model-driven metadata

CONTINUOUS IMPROVEMENT

Predict and improve release visibility, quality and reduce risk



CA Release Automation Solution Set

CA RELEASE AUTOMATION

Proven foundation for companies to execute a successful DevOps, continuous delivery strategy

Rapidly and reliably automating application releases from development to production—
the automation engine

Planning, managing and optimizing the continuous delivery pipeline

CA RELEASE AUTOMATION
CONTINUOUS DELIVERY EDITIO



Release Automation 6.3

GA: December 16th

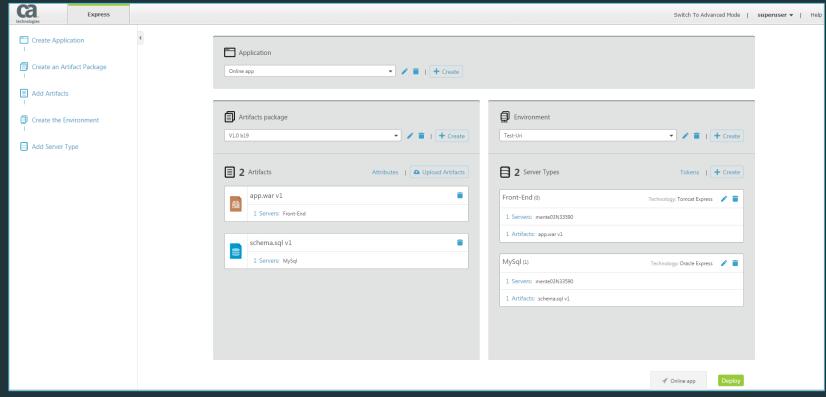
Release Automation For Mainframe

- Part of "Continuous Delivery for Mainframe" initiative
- Automates and orchestrates sequential and parallel deployments of mainframe applications
- Supports rollback of mainframe application deployments
- Integrates with CA Endevor® Software Change Manager, the market leading mainframe SCM solution
- Support the following scenarios
 - z/OS advanced support
 - Data set
 - CICS
 - DB2
 - WebSphere on MF



Release Automation Express Mode

- Supporting trial version of RA
- Simplify deployment of common technologies



Release Track

- Help to break releases to smaller deliveries and track progression and status
- Adopt Continuous Delivery practices





The Future



Release Automation 6.4

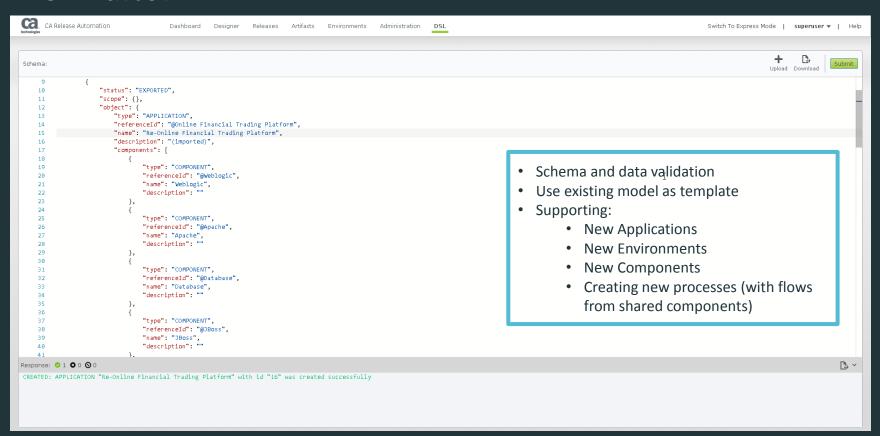
GA: April 10th

Release Automation 6.4

- "As Code" Capabilities
 - Onboard new applications
- Improve Debug Capabilities
 - Reduce MTTR
 - Simplify process execution data retrieval
- Technical Debt
 - RDK Improvements
 - High Availability Improvements
 - Cases Backlog

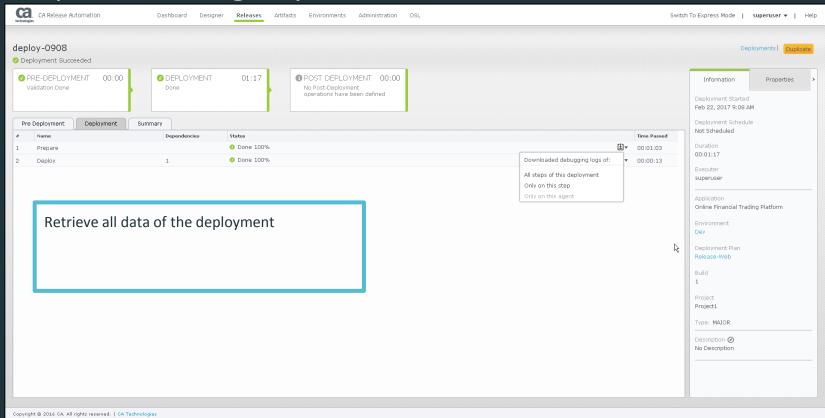


DSL Editor





Improve Debug Capabilities





Improve Debug Capabilities

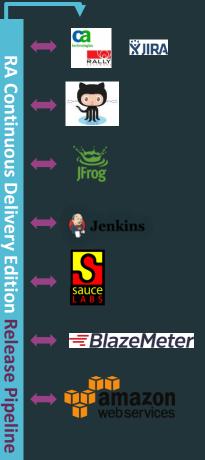
- Clear emphasis of beginning/end of step, flow and action
- Parameter's value
- Action result

```
2016-12-21 14:34:25.10 Starting Step Pre Tomcat Express (ID P233433405)
    Agent: asec-1234
    Getting Parameters value:
       IsOK = True
       WorkDir = C:\Tmp
       TomcatHome = c:\Apache7.5
        xmlContent = <?xml version="1.0" encoding="UTF-8"?>
    2016-12-21 14:34:25.15 Starting Flow "Pre", Loop type: No Loop (ID F233439305)
    2016-12-21 14:34:25.18 Starting Action "Create Working Directory" (ID F233439305.E233439738)
       Action Type: Create Folder
       Pause on Fail: Y
       Input Fields:
           New Folder Path = c:\tmp
           Fail If Exist = True
    2016-12-21 14:34:26.00 Ending Action "Create Working Directory" (ID F233439305.E233439738)
       Action Finished successfully: Folder created c:\temp
       Action Results:
        Action State: Success
        Next is "Create Backup Directory" Action
    2016-12-21 14:34:26.50 Starting Action "Create Backup directory" (ID F233439305.E233439739)
       Action Type: Create Folder
       Pause on Fail: Y
       Input Fields:
           New Folder Path = c:\tmp
           Fail If Exist = True
32 2016-12-21 14:34:26.00 Ending Action "Create Backup Directory" (ID F233439305.E233439739)
       Action Finished successfully: Folder created c:\temp
       Action Results:
       Action State: Success
       Next is "Backup Configuration Files" Flow
38 2016-12-21 14:34:27.10 Starting Flow "Backup Configuration Files" (ID F233439305.F445782120)
       Loop Type: Collection
       Input Fields:
           Loop Folder = C:\Tmp
           Starting Iteration #1
44 2016-12-21 14:34:27.50 Starting Flow "Backup application war file" (ID F233439305.F445782122)
       Loop Type: Collection
       Input Field:
           Loop Folder = C:\Tmp
50 2016-12-21 14:34:27.80 Starting Action "Check if application war file exists" (ID F233439305.F445782122.E235489231)
       Action Type: Find file or Folder
```

Release Automation CDE SaaS

Part of RA CDE 6.4 (early access: April 10th)

- SaaS offering of CDE
 - Manage application delivery pipelines,
 - Orchestration and coordination end-to-end application releases
- Simple, straightforward experience
 - Sign in/up with Google and GitHub account, Invite friends
 - Sample release and app for easy ramp-up
 - In-product 'Walkme' embed to guide user experience to ramp up
- Integrated with multiple popular cloud Continuous Delivery services
 - Start pipeline execution upon **GitHub** commit new artifact in **Artifactory**
 - Deploy on Amazon using CodeDeploy and Elastic Beanstalk
 - Test with BlazeMeter and Sauce Labs





Upcoming Capabilities



CA Release Automation Solution Set

SDK, Plugging Framework

Reporting and Dashboard

Continuous Delivery Insight

Release Deployment, Planning and Management Hybrid Cloud Management

On Premise/ SaaS Offering



Release Deployment, Planning and Management

As Code Capabilities

Improving versioning and automation by allowing users to perform repeated tasks via in a descriptive and programmatically approach

Test Asset Repository

Automate E2E scenario and improve continuous testing practices with built in mapping tool correlating test assets with respective deliveries

Microservices and Containers

Improve Support end to end microservices based apps deployment

Debugging Capabilities

Simplify process of errors investigation and handling anti-pattern design practices

Enterprise Readiness

Improve performance and scale of the solution for high volume of deployments and enterprise environments

Integrations

Connect disparate DevOps tools together to allow seamless and repeatable release process



Environment Management and provisioning

Cross Provider Support

- Cloud platform agnostic solution that simplify mobility between different solutions
- Deploy code on different environments (private and public)
- Design and version application blueprints that can be used across different providers

Resource Scheduling

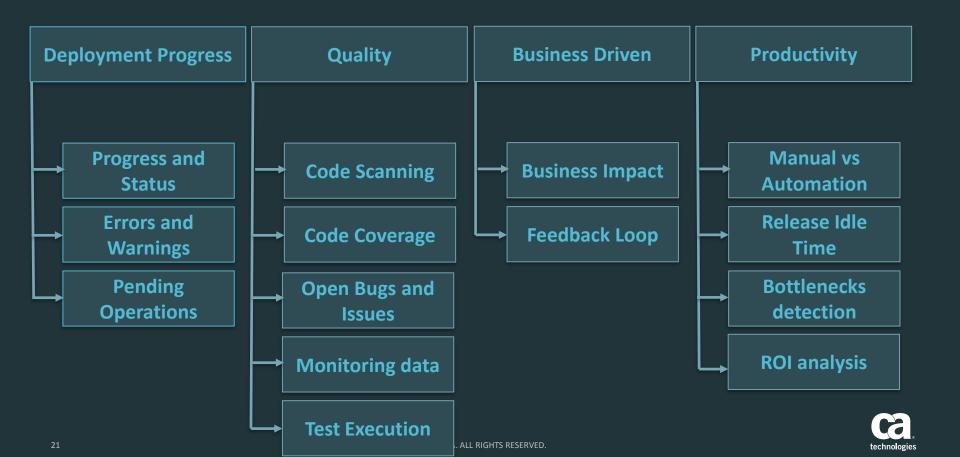
- Rule based engine (time, load) for provisioning new instances for testing and scale
- Identify conflicts between different teams

Pluggable Design

- Support expanding solution for additional providers
- Can be customized for different flavors of existing solutions



Dashboard and Reporting



Continuous Delivery Insight

Asses Release health and readiness

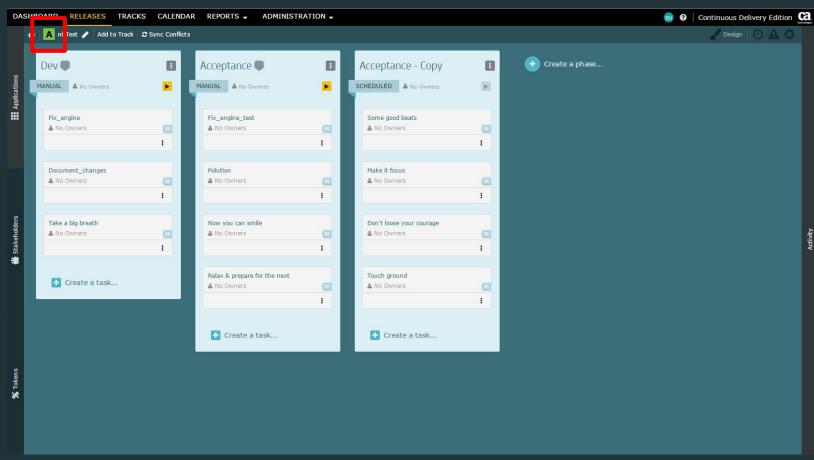
- Help with 'go/no go' decisions
- The product can link release status to different quality metrics (test results, code coverage, #of bugs opened in project)
- By analyzing historical execution information, we can build a model and use it to predict result of planned releases

Match between APM and correspondent execution

 Leveraging APM data before and after deployment to identify delivery impact of a new change

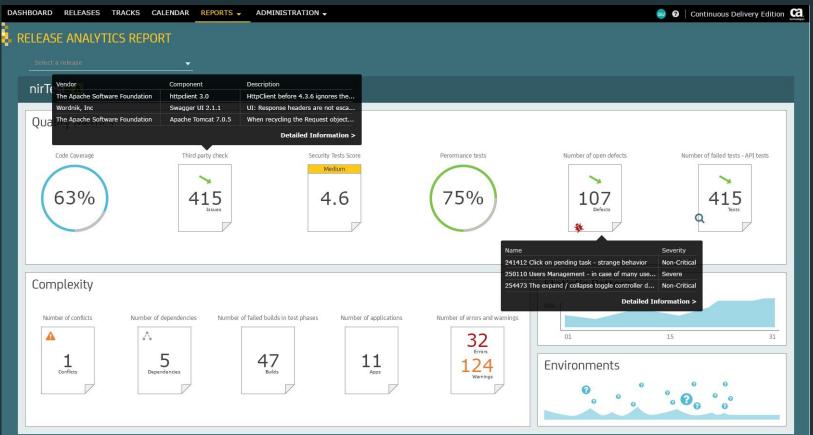


Continuous Delivery Insight (wireframe)





Continuous Delivery Insight (wireframe)





Help Shape the Future of CA Release Automation: Design Partner Program

Engage with PM and Engineering to provide input on new functionality

Share your thoughts

Engage early & throughout the dev process to help ensure what we build fits your use case.

Network with other participants

Share ideas, feedback, and best practices.

Try new functionality first

Get access to early releases.

Be a reference

Raise the profile of your self and your organization.

Shape the future

Be part of the future of RA.

Click here to begin!





Release Automation

	Delivered	Planned	Roadmap
Product/ Releases	Release Automation version 6.2, 6.3	Release Automation versions 6.4	Release Automation version 6.5+
Marquee Features/ Business Value	 Improve test efficiency with production related data by integrating with CA TDM, allowing usage of test data as part deployment Improve usability by providing a Design Studio Web Interface, consolidated with Release Operation Center 	 Reduce Administration efforts with REST APIs for users, users groups, and permissions managements 	 Improve Automation by fully implementing 'as code' across product (Deployment Plans,
		 Simplify Automation capabilities and increase flexibility with Continuous Delivery Markup language 	processes, components, etc)
			 Simplify CD by improving artifact model
		 Improved debugging and efficient investigation with new Deployment Execution log, and improved logs collection capabilities Improve User Experience by consolidating old ASAP GUI with web interface 	 Optimize releases by skipping already-deployed content with Incremental Deployments
	 Support mainframe deployments with z/os connector, allowing jobs submission and manipulation and supporting CICS and DB2 technologies 		 Improve collaboration and simplifying extending product with open sourcing action packs and providing marketplace for plugins
	 REST API support local user management 		■ Complete exposing public REST
			APIs for all product capabilities
			 Improve User Experience by full consolidation of old ASAP capabilities with web interface



Release Automation Continuous Delivery Edition

	Delivered	Planned	Roadmap
Product/ Releases	Release Automation CDE version 6.2	Release Automation CDE version 6.4	Release Automation CDE version 6.5+
Marquee Features/ Business Value	 Design & Execute a release by creating phases and tasks inside the release and running the phases. Application Model Definition by creating local applications and environments or importing them from a third party. Increase Agile Central integration by checking test case results for user stories and defects. Application Model Definition by creating local applications and environments or importing them from a third party. Pipeline Management using the calendar view, where you can see all your releases. Maintenance Windows to define the time per environment when you are allowed to deploy. Dashboard & Reporting to track 	 BlazeMeter Integration for performance testing AWS Integration with support for CodeDeploy, Elastic Beanstalk GitHub Integration for automated CD use case following a new commit Artifactory Integration for automated CD use case following a creation of a new artifact Kubernetes Integration for docker orchestration Slack Integration for swift communication between the team members 	 Test Asset Repository Improve continuous testing process by automating test scenarios execution across delivery cycle CDE Insight use system data to asses release risks, help optimize releases and make 'go/no go decisions' Support Cloud Initiatives with hybrid environments management (AWS, Azure, Google Cloud, OpenStack, OpenShift) Freeze Environment to define time ranges when an environment cannot be changed. Simplify Automation by providing pipeline as a code capabilities Additional Integrations with CI, testing, security, user management and APM solutions



releases and highlight bottlenecks