



**AD SWAT**



**technologies**

**CA Continuous  
Delivery  
Director  
Testing Guide**

**CA CDD SAAS**

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**Date: May 2017**

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# CA Continuous Delivery Director SAAS

## Purpose

The purpose of this document is to provide guidance on a new SAAS-based release management and planning tool from CA Technologies. The SAAS version is designed to provide best in class support.

CD Director has broad support for 3<sup>rd</sup> party integrations which are documented in this guide. It is perfectly fine to skip sections that do not apply to your environment.

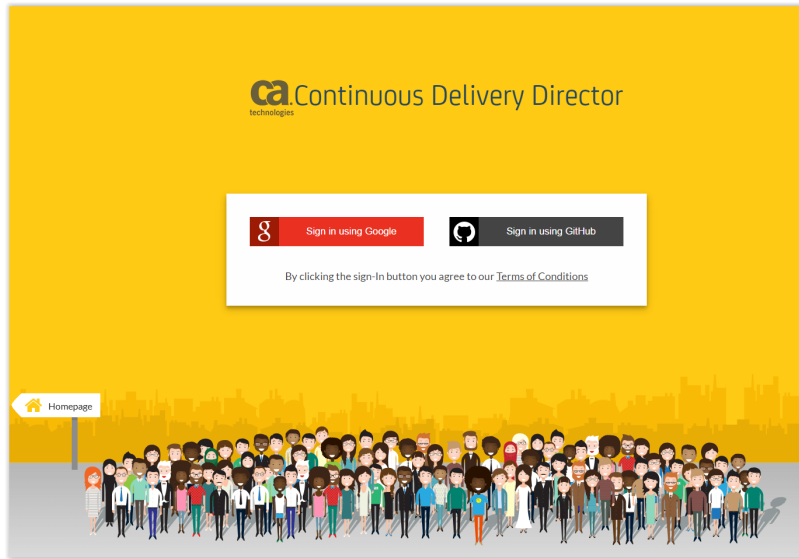
## SaaS environment

CD Director is a SAAS-based offering from CA Technologies. The URL to sign up or log in is <https://cddirector.io/#/home>

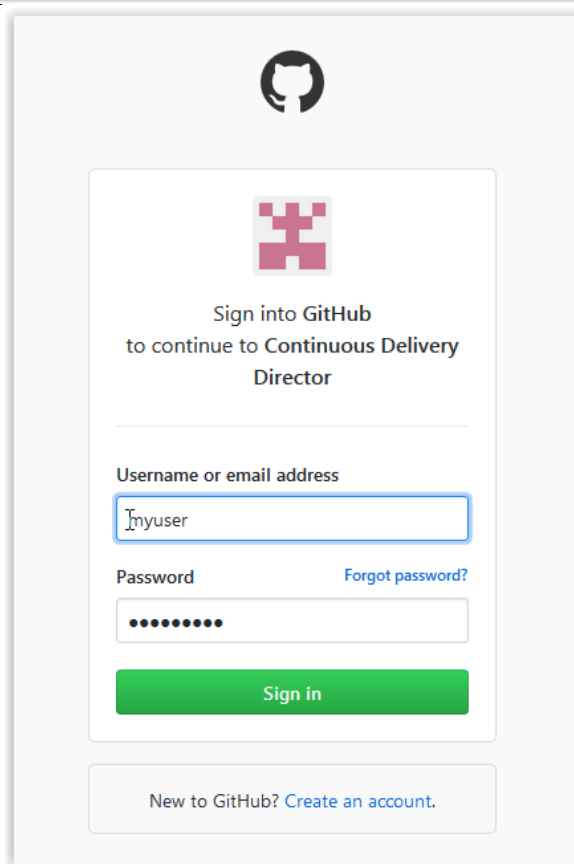
The screenshot shows the homepage of the CA Continuous Delivery Director SaaS application. The header features the CA Technologies logo, the product name "CA Continuous Delivery Director", and navigation links for "Education", "Blog", "Try For Free!", and "Log In". The main content area has a yellow background with the text "Continuous delivery orchestration & optimization for every team" and a "Get Started — Free!" button. Below this is a large, diverse group of stylized human icons. The bottom section, titled "Orchestrate Continuous 'Everything'", contains three columns of benefits, each with an icon and a brief description.

Icon	Benefit Title	Description
Lightbulb	Continuously Release	Forget the stress, long weekends, and spreadsheets. Make releases a non-event.
Interlocking circles	Continuously Test	Avoid rework and improve app quality by shifting left.
Download arrow	Continuously Improve	Save time and effort to deliver more value to your customers regularly.

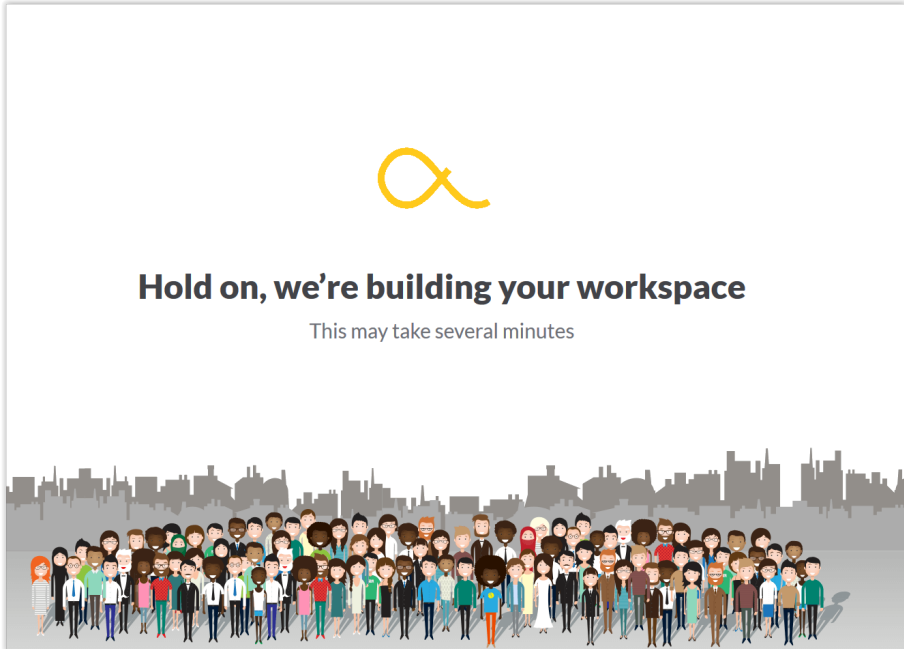
## Accessing the System



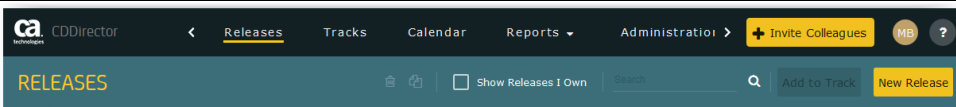
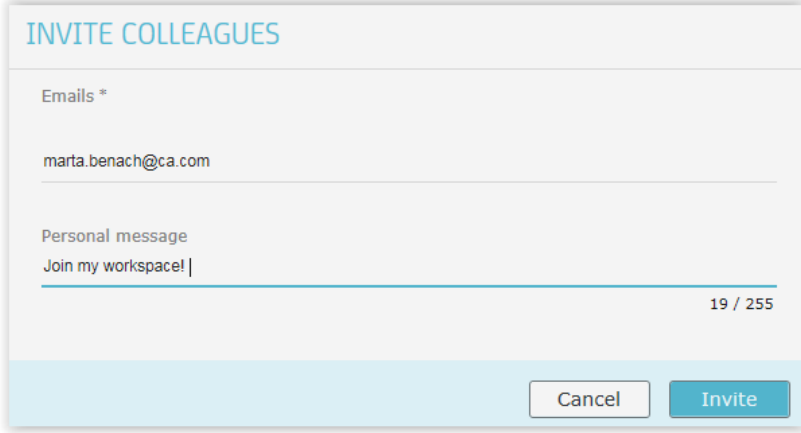
Log in with GitHub or GMail.

This image shows a modal window for logging in with GitHub. At the top is the GitHub Octocat logo. Below it is a pinkish-red GitHub logo. The text reads 'Sign into GitHub to continue to Continuous Delivery Director'. There are two input fields: 'Username or email address' with the text 'myuser' and 'Password' with masked characters. A 'Forgot password?' link is next to the password field. A green 'Sign in' button is at the bottom of the form. Below the form, there is a link: 'New to GitHub? [Create an account.](#)'

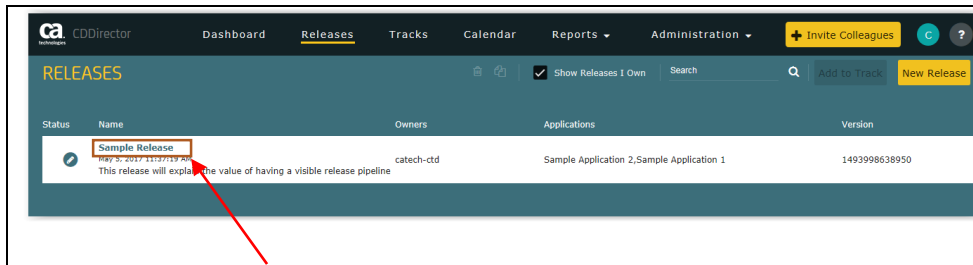
**Enter your login information**

 <p>The splash screen features a yellow infinity-like logo at the top. Below it, the text reads "Hold on, we're building your workspace" in bold, followed by "This may take several minutes" in a smaller font. At the bottom, there is a large, diverse group of stylized human figures standing in front of a city skyline silhouette.</p>	<p>CD Director will create a workspace for you.</p> <p>CD Director is great but its better with friends.</p> <p>Invite colleagues and collaborators to share your workspace so that all the stakeholders are in the know.</p>
---	---

## Invite Colleagues

 <p>The screenshot shows the CD Director web interface. The top navigation bar includes links for Releases, Tracks, Calendar, Reports, and Administration. A yellow button labeled "+ Invite Colleagues" is visible in the top right corner. Below the navigation bar, the "RELEASES" section is active, showing options like "Show Releases I Own", a search bar, and buttons for "Add to Track" and "New Release".</p>	<p>Click + Invite Colleagues to collaborate with your team.</p>
 <p>The modal form titled "INVITE COLLEAGUES" contains two main sections. The first section, "Emails *", has a text input field with the email "marta.benach@ca.com". The second section, "Personal message", has a text input field with the message "Join my workspace!". A character count "19 / 255" is shown at the bottom right of the message field. At the bottom of the modal are two buttons: "Cancel" and "Invite".</p>	<p>Fill in email and a message.</p> <p>Use a semi-colon to add multiple addresses.</p> <p>Click Invite</p>

## Explore the Sample Release

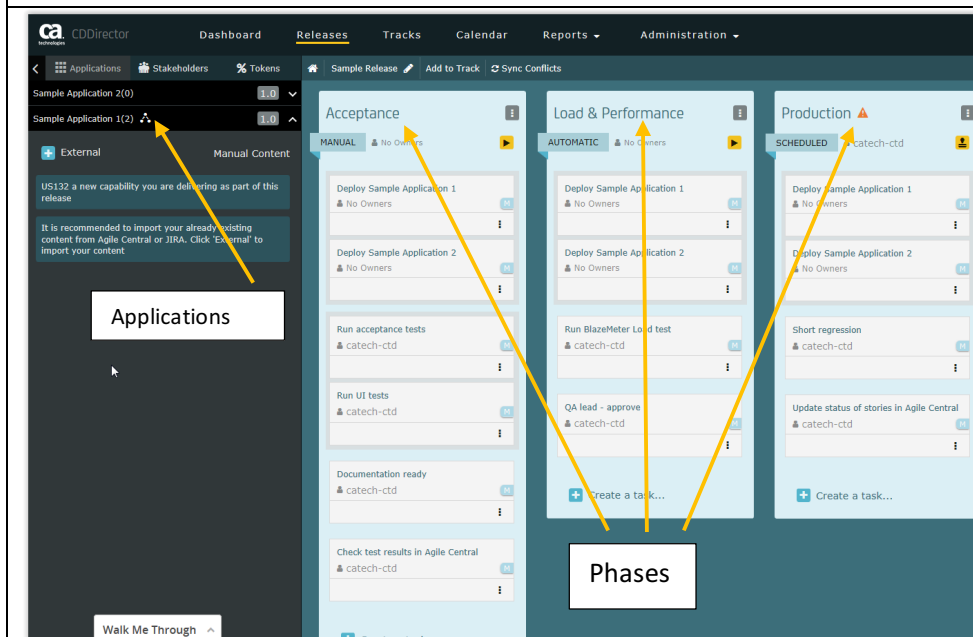


A sample release has been created by default.

The release consists of 2 applications, Sample Application 1 and 2

You are the owner and the version is your tenant ID number.

Click on Sample Release



The Details of the Sample Release are shown.

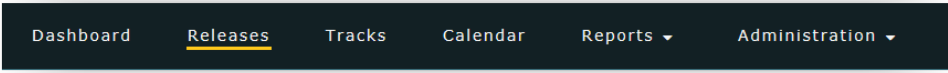
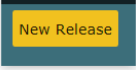
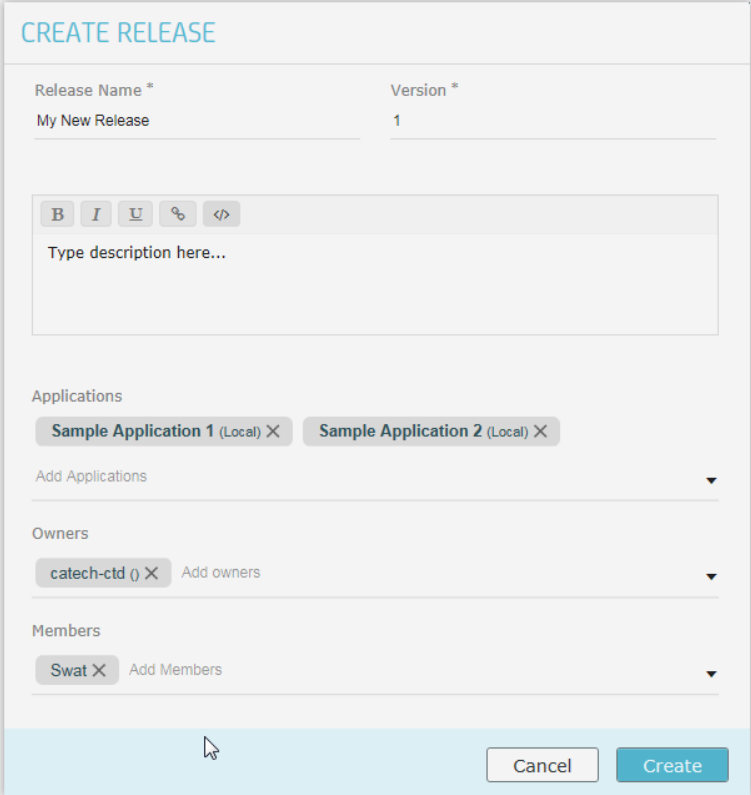
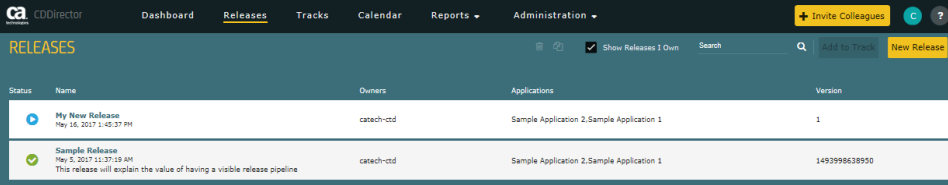
The left hand side shows the applications for the release and the user stories for each.

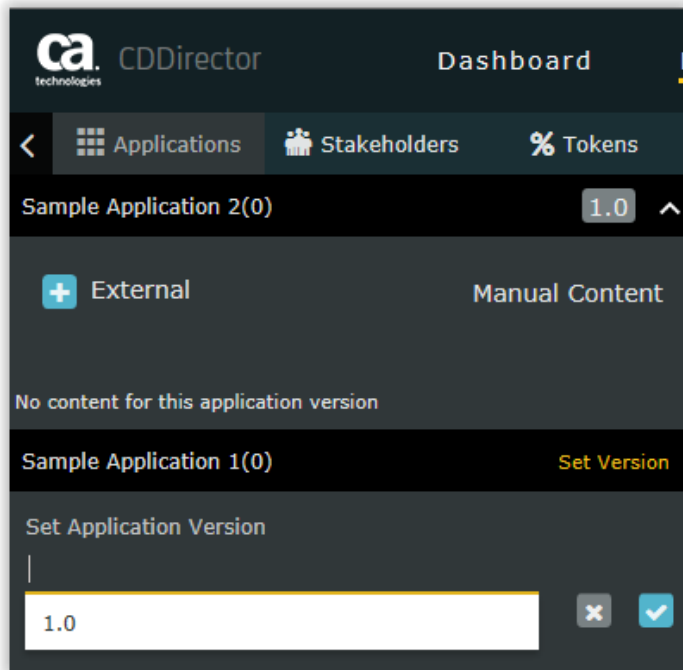
There are 3 phases, Acceptance, Load and Performance and Production.

Each phase is comprised of multiple tasks.

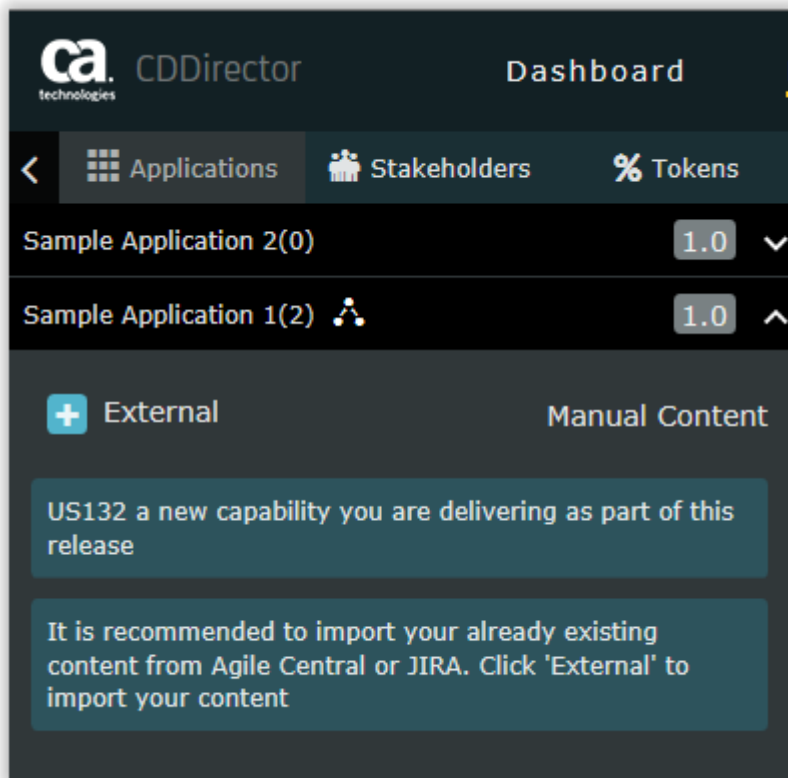
Note – Phases and Tasks have owners.

## Create a New Release

	<p>Click Releases tab Select New Release</p> 
	<p>Enter a Name, Version and Description</p> <p>Add Sample Application 1 and Sample Application 2</p> <p>By default you will be the owner.</p> <p><i>Note: The Release owner/s has the overall responsibility for the Release.</i></p> <p>Add any additional Members. <i>Note: Members are stakeholders who are interested in the Release</i></p> <p>Select Create</p>
	<p>Click My New Release link</p>



Set the Versions for the Applications.



*Note: Sample Application 1 version 1.0 already has user content defined.*

User stories can be defined manually or by integrating with Agile Central or Jira.

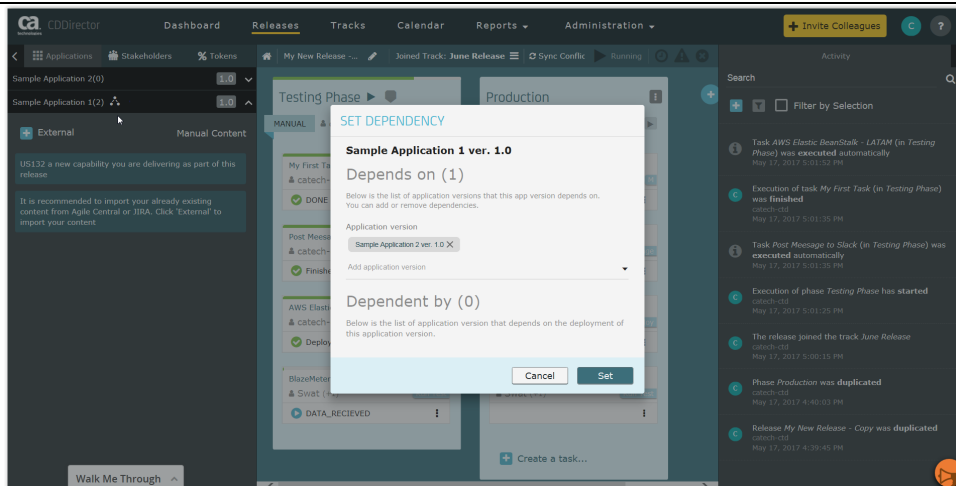




Click on the

to see application dependencies

Click Cancel



### CREATE PHASE

Phase Name \*

Testing Phase

Owners

catech-ctd () X

Add Owners

CHOOSE HOW YOU WANT THE PHASE TO RUN

☒ Manual

☐ Automatic

☐ Scheduled

When you press run button

When previous phase ends

According to the estimated time

Tip: set estimated from/to for better insight

From

Today at 1:53 PM

X

To

Saturday at 1:53 PM

X

B I U

Testing Phase\_\_

Environments

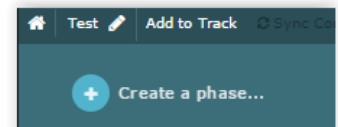
QA X

Add environment

Cancel

Create

Select **Create a Phase**



Enter a Name

Set the Phase Owner

Select whether the Phase is Manual , Automatic, or Scheduled.

Set the dates for the phase

Give a description

Select the Environment for the phase.


The environments available are the default environments for the Sample Applications.

*Note: Environments and Applications are defined in the Administration tab.*

## CREATE TASK

Task Name \*

My First Task

**B** *I* U  

Type description here...

Owners

Add Owners

Task Type

Manual

## CONTENT


☐ Sample Application 2  
(1.0)

☒ Sample Application 1 (2.1)

Cancel

Create

Select Create a Task

 Create a task...

Enter a Name and Description

Set the Owner

Set the Task to Manual


*Note: There are many types of tasks available.*

*Note: Selecting the checkbox for the application in the content dialog maps the task with specific content for an Application. For example, a deployment task can map user stories in the reports by selecting the Sample Application 1 (1.) checkbox*

Select Create

## Testing Phase

MANUAL

 catech-ctd

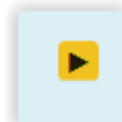


My First Task

 catech-ctd



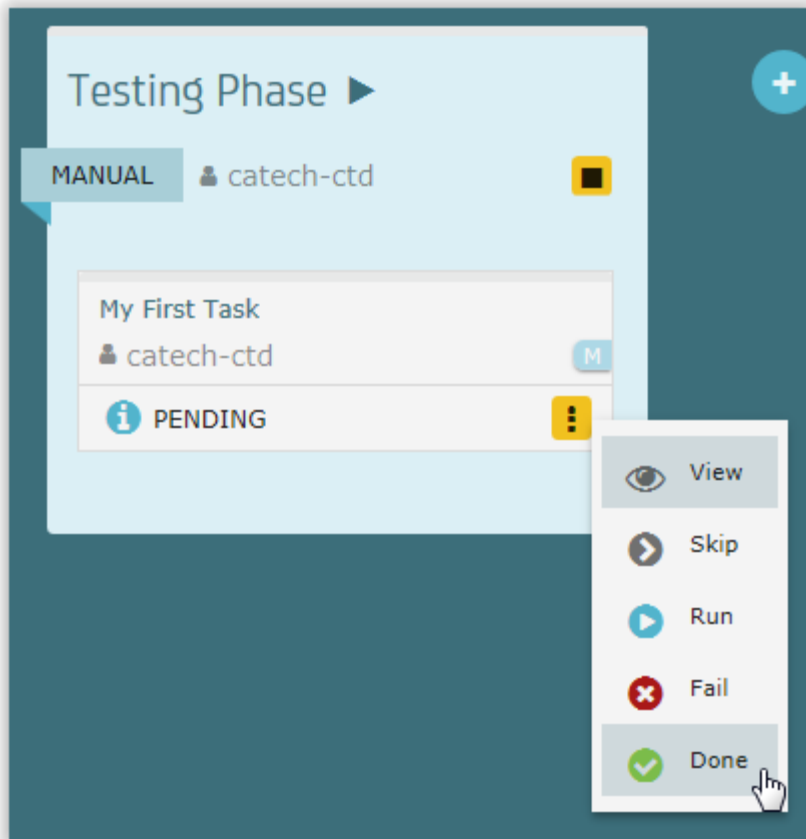
Create a task...



Click the Release.

to start the


++



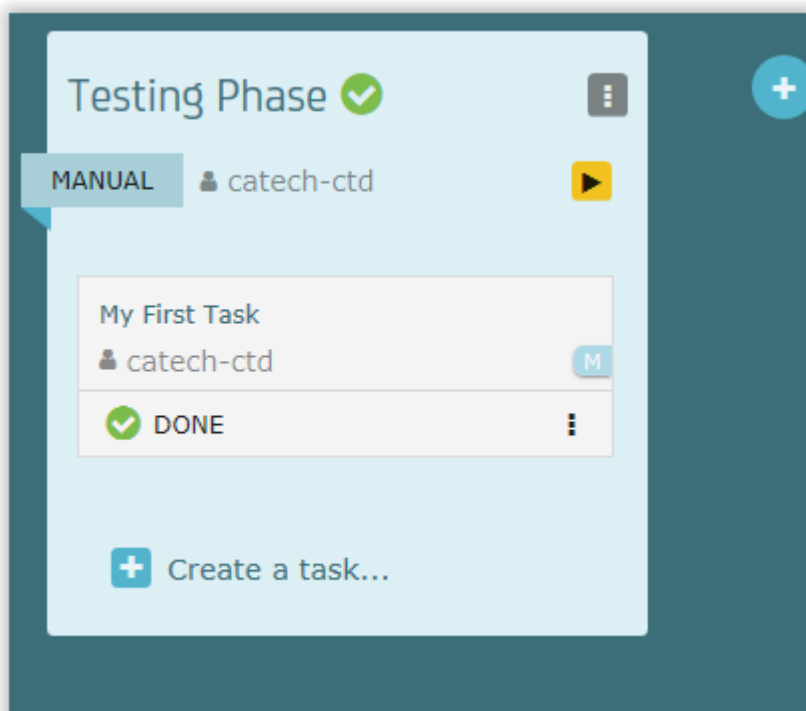
The Phase starts and the Task turns to Pending.

This task is a Manual task.




Click the  to set the Status of the task.

Select Done, to indicate the task is complete.



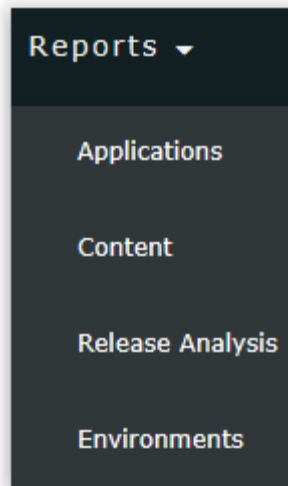
A phase can be run multiple times.



Click the  to re- run the phase.

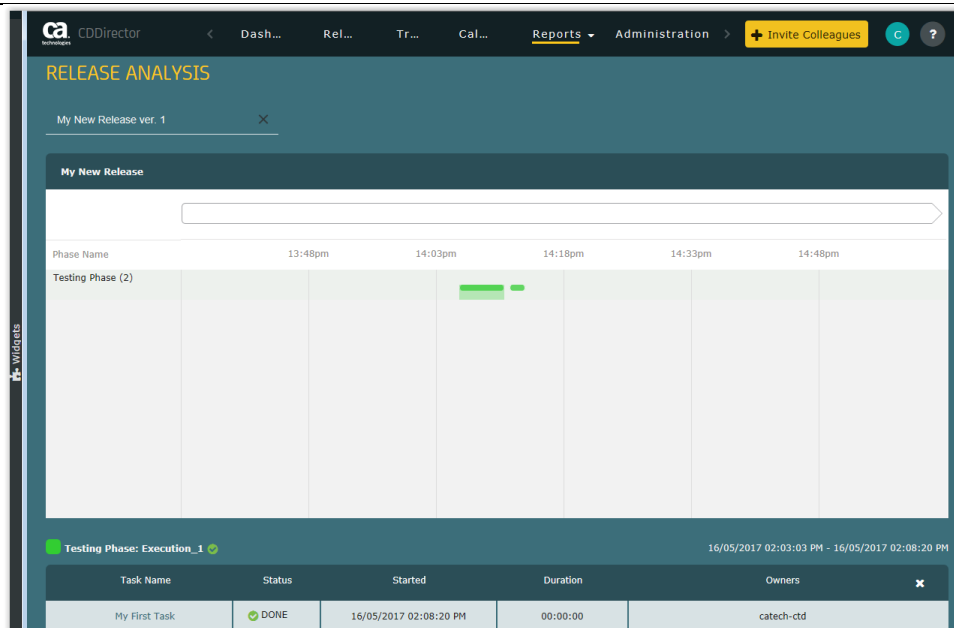
*Note: This is especially helpful during the Dev/ Test cycle when failures are more common.*

Set the task to Done.



Select Reports

Select Release Analysis



Enter the Release Name

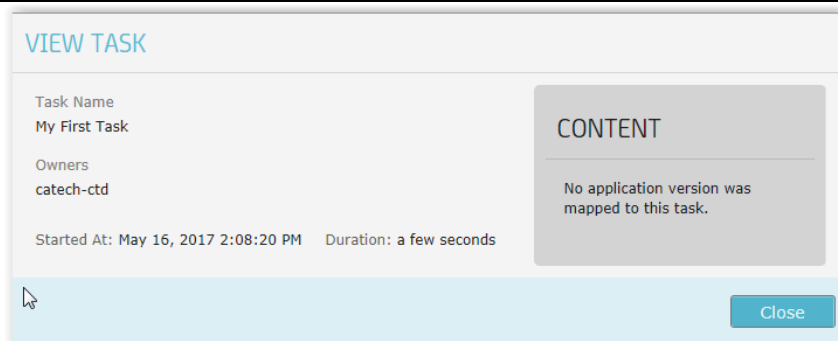
The Release Analysis Report is displayed.

The Test Phase is shown.

*Note: Each bar represents a phase run.*

Click on one of the colored bars to see Task Details.

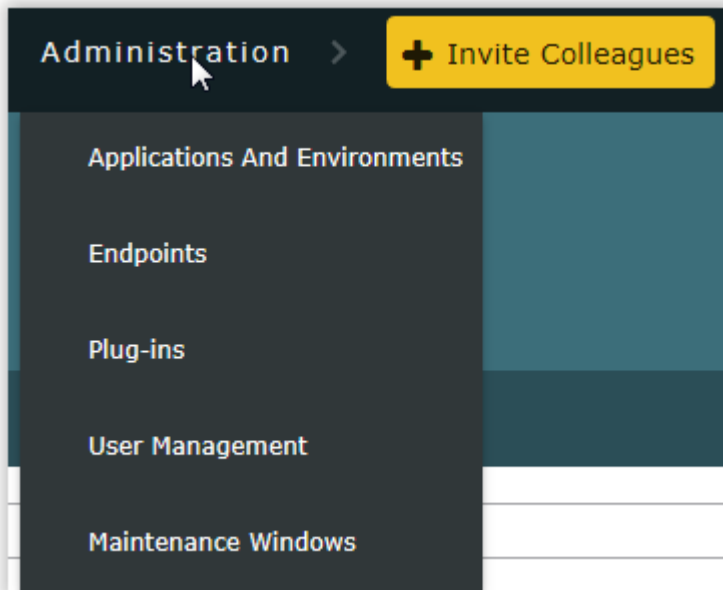
Click on the Task Name to see Task Details



Click Close

# Plug-Ins










Plug-ins enable integration with remote components, such as AWS CodeDeploy, BlazeMeter, and SauceLabs. All available plug-ins from CA Technologies are pre-registered in the SaaS version of CA Continuous Delivery Director. CD Director provides the ability to create custom plugins which can be registered in the Plug-Ins screen.



Click Administration

Click Plug-ins

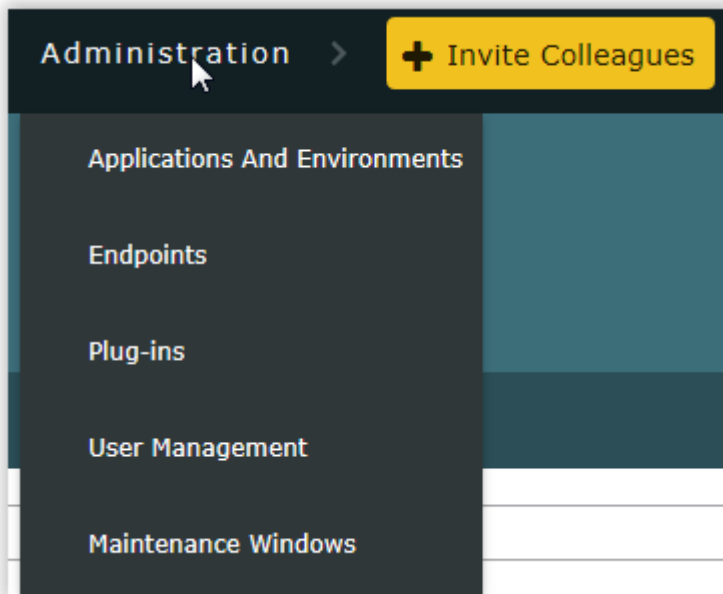
## PLUG-INS

Plug-in Name	Version	Vendor	Application Model	Content	Connectivity Test	Tasks
 REST 1.0	1.0	CA Technologies				1
 BlazeMeter	1.0	CA Technologies			✓	2
 ServiceNow	1.0	CA Technologies			✓	5
 Jira	1.0	CA Technologies		✓	✓	3
 Rally Platform	2.0	CA Technologies		✓	✓	2
 AWS ElasticBeanstalk	1.0	CA Technologies			✓	1
 AWS CodeDeploy	1.0	CA Technologies			✓	1
 SauceLabs	1.0	CA Technologies			✓	1
 Slack	1.0	CA Technologies			✓	1

All of the Plug-ins available for CD Director are shown here.

Plug-ins are integrations with third-party systems

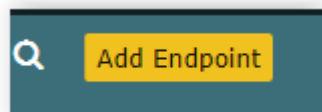
## Configure Endpoints



Select Administration | Endpoints

*Note: Endpoints are specific connections to plugins. For example, an endpoint to AWS Elastic Beanstalk includes all the information needed for the AWS account including the, Access Key and Secret Key.*

Once an endpoint is configured, you will be able to run tasks for that system.



Select Add Endpoint

A screenshot of a dialog box titled 'ADD ENDPOINT' in blue text. The dialog has a light gray background. At the top, there is a descriptive text: 'An endpoint is a connection to a specific system. You can define multiple endpoints to different systems of the same type like connecting to two Release Automation systems.' Below this is a form with two fields: 'Name \*' (with a red asterisk and a red 'Required' label below it) and 'Description'. Under these fields is a section titled 'AUTHORIZED USERS' with a sub-label 'Add authorized users' and a dropdown arrow. Below that is a 'Select plugin \*' section (also with a red asterisk and 'Required' label). This section contains a list of plugins: 'REST Endpoint' (highlighted in light blue), 'BlazeMeter', 'ServiceNow Endpoint', 'Rally Platform', 'Jira EndPoint', 'AWS CodeDeploy Endpoint', and 'AWS ElasticBeanstalk Endpoint'. At the bottom of the dialog are two buttons: 'Cancel' and 'Add'. A red note at the bottom of the plugin list says 'Required for execution stage'.

You can add Endpoints for

REST  
BlazeMeter  
ServiceNow  
Agile Central (Rally)  
Jira  
AWS CodeDeploy  
AWS ElasticBeanstalk  
Protractor (SauceLabs)  
Slack

## Configure Slack


Description

### ADD ENDPOINT

An endpoint is a connection to a specific system. You can define multiple endpoints to different systems of the same type like connecting to two Release Automation systems.

Name *	Description
Slack	cdswat slack

AUTHORIZED USERS


Swat  Add authorized users

Select plugin \*

Slack

**Input Parameters**

Webhook URL

ocks.slack.com/services/T5CD5HQQN/B5BK6NZC2/OI24hUNY1b7D2QKh6vP5Bc1x 

Connected

Cancel

Test connection

Add

### Create a Slack Endpoint

Enter Name and Description

Enter Authorized User/s

Select Slack plugin

Enter the webhook URL for the Slack channel.

*Note: The webhook url can be found in Slack.*

Click Test Connection

Click Add

## Configure AWS Elastic BeanStalk

**ADD ENDPOINT**

AUTHORIZED USERS

catech-ctd Add authorized users

Select plugin \*

AWS ElasticBeanstalk Endpoint

**Input Parameters**

Access Key ID

AA11A1111111AAAAAA

Secret Access Key

.....

Region

us-west-1

S3 Bucket

elasticbeanstalk-us-west-1-111111111111

Cancel Test connection Add

### Add AWS Elastic Beanstalk Endpoint

Enter Name and Description  
(Not shown)

Enter Authorized User/s

Select AWS Elastic BeanStalk  
plugin

*Note: For information on AWS  
Access and Secret Keys go here:*

<http://docs.aws.amazon.com/general/latest/gr/aws-sec-cred-types.html>

<http://docs.aws.amazon.com/general/latest/gr/managing-aws-access-keys.html>

Enter Access Key ID

Enter Secret Key

Enter Region

Enter S3 Bucket

Click Test Connection

Click Add



## Configure Agile Central

### ADD ENDPOINT

An endpoint is a connection to a specific system. You can define multiple endpoints to different systems of the same type like connecting to two Release Automation systems.

Name *	Description
Agile Central - MIMI	Mimi AC

AUTHORIZED USERS

catech-ctd () X

Add authorized users

Select plugin \*

Rally Platform

#### Input Parameters

URL

https://rally1.rallydev.com

X i

Workspace Name

MyWorkspace

API Key

\_aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa

Cancel

Test connection

Add

### Create an Agile Central endpoint

Enter Name and Description.

Add authorized user/s

Select Rally Platform

Use the Agile Central url:

<https://rally1.rallydev.com>

Enter the workspace

Enter the API Key

*Note: For information on how to get the API key:*

<https://help.rallydev.com/rally-application-manager>

Click Test Connection

Click Add

## Configure SauceLabs

### ADD ENDPOINT

An endpoint is a connection to a specific system. You can define multiple endpoints to different systems of the same type like connecting to two Release Automation systems.

Name *	Description
SauceLabs - Swat	Swat Team Account

AUTHORIZED USERS

catech-ctd () X Add authorized users

Select plugin \*

Protractor Endpoint

#### Input Parameters

Sauce Labs User Name

SauceLabs User

SauceLabs User Key

Git Project URL

https://github.com/angular/protractor.git

GitHub User Name

github user

GitHub User Password

Cancel Test connection Add

### Create a SauceLabs Endpoint

Enter Name and Description

Add authorized user/s

Select Protractor Endpoint

Enter Username

Enter User Key

Enter Git Project URL

*Note: The repo where the SauceLab tests live*

Enter GitHub User

Enter Github Password

Click Test Connection

Click Add

## Configure AWS Code Deploy

### ADD ENDPOINT

An endpoint is a connection to a specific system. You can define multiple endpoints to different systems of the same type like connecting to two Release Automation systems.

Name *	Description
<input type="text" value="AWS Code Deploy"/>	<input type="text" value="Dev TEam"/>

AUTHORIZED USERS

Select plugin \*

#### Input Parameters

Region

Access Key ID

Secret Access Key

GitHub Repository Owner

GitHub Repository

GitHub User Name

GitHub Password

### Create an AWS Code Deploy Endpoint

Enter Name and Description

Add authorized user/s

Select AWS CodeDeploy Endpoint

Enter AWS Region

*Note: Information on Access and Secret Keys can be found here:*

<http://docs.aws.amazon.com/general/latest/gr/aws-sec-cred-types.html>

<http://docs.aws.amazon.com/general/latest/gr/managing-aws-access-keys.html>

Enter Access Key ID

Enter Secret Key

Enter GitHub Repository Owner

Enter Github Repository

Enter GitHub UserName

Enter GitHub Password

Click Test Connection

Click Add

## Configure ServiceNow

### ADD ENDPOINT

An endpoint is a connection to a specific system. You can define multiple endpoints to different systems of the same type like connecting to two Release Automation systems.

Name *	Description
ServiceNow	Helsinki

AUTHORIZED USERS

catech-ctd () X

Add authorized users

Select plugin \*

ServiceNow Endpoint

#### Input Parameters

Server URL

https://myservicenow:443

Username

snuser


Password

....

Proxy Url

Proxy Username

Proxy Password



Cancel

Test connection

Add

### Create A ServiceNow Endpoint

Enter Name and Description

Add authorized user/s

Select ServiceNow Endpoint

Enter ServiceNow Url

Enter Username

Enter Password

If necessary, Enter Proxy server, user and password

Click Test Connection

Click Add

## Configure JIRA

**ADD ENDPOINT**

Name *	Description
Jira	Mimi

**AUTHORIZED USERS**

cstech-ctd () X Add authorized users

Select plugin \*

Jira EndPoint

**Input Parameters**

URL  
https://carademo.atlassian.net/ ⓘ

User Name  
myUser

Password  
\*\*\*\*\*

Proxy Host ⓘ

Proxy Port ⓘ

Proxy Username ⓘ

Proxy Password ⓘ

HTTPS Enable

Cancel Test connection Add

### Create a JIRA Endpoint

Enter Name and Description

Enter Authorized User/s

Select Jira Plugin

Enter Username

Enter Password

If necessary, Enter Proxy host, username and password

Set Enable https to true

Set the timeout, if desired (not shown)

Click Test Connection

Click Add

## Configure BlazeMeter

**ADD ENDPOINT**

An endpoint is a connection to a specific system. You can define multiple endpoints to different systems of the same type like connecting to two Release Automation systems.

Name *	Description
BlazeMeter	Mimi

**AUTHORIZED USERS**

catech-ctd () X Add authorized users

**Select plugin \***

BlazeMeter

**Input Parameters**

Url  
https://a.blazemeter.com

API Key  
aaaaaaaaaaaaaaaa2202

Cancel Test connection Add

### Create a Blazemeter Endpoint

*Note: For awesome performance testing, sign-up for BlazeMeter:*

<https://a.blazemeter.com/app/sign-up>

Enter Name and Description

Enter Authorized User/s

Select BlazeMeter Plugin

Enter BlazeMeter URL

<https://a.blazemeter.com>

*Note: Information on the BlazeMeter API key can be found here:*

<https://guide.blazemeter.com/hc/en-us/articles/115002213289-BlazeMeter-API-keys->

Enter API Key

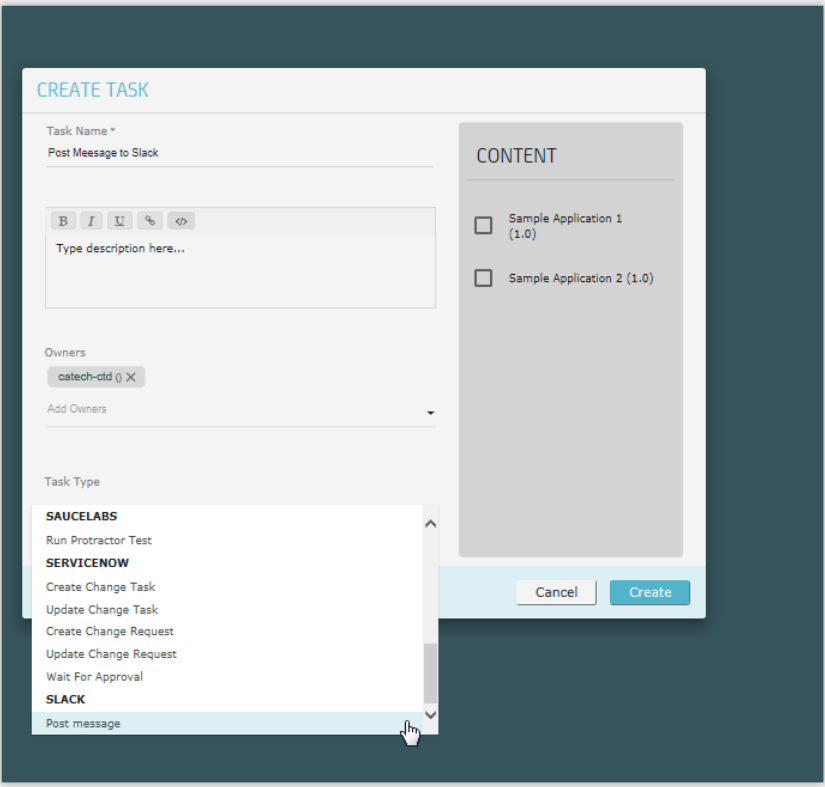
Click Test Connection

Click Add

## Adding New Tasks to the Release

Now that we have configured our endpoints, we can use the built-in tasks to interface with our 3<sup>rd</sup> party systems. For example, we can post messages to a Slack Channel, Deploy to AWS CodeDeploy or Elastic BeanStalk or Run a BlazeMeter Performance Test. The following are some examples on how to create tasks.

## Create a Slack Task

	<p>Navigate to Releases   My New Release</p>
	<p>Click Create A Task</p>
	<p>Enter in Task Name</p>
	<p>Enter Owners</p>
	<p>Set Task Type to Slack Post Message</p>

**CREATE TASK**

Task Name \*  
Post Message to Slack

**CONTENT**

☐ Sample Application 1 (1.0)  
☐ Sample Application 2 (1.0)

Task Type: Post message  
Endpoint: Slack

**Input Parameters**

Post to channel

Sender: CDDirector

Message: Hello SaaS World!

Cancel Create

Select the Slack Endpoint

Post to Channel

Leave it empty to post to the default slack channel

*Note: use @ to post to a specific user and use #channel to post to a specific channel*

Enter Sender

Enter Message

Click Create



## Create an AWS Elastic BeanStalk Task

### CREATE TASK

Task Name \*

Deploy to Elastic BeanStalk

B I U % </>

Deploy Application to **EBS** Production environment

Owners

Mimi (Marta.Benach@ca.com) X

Add Owners

Task Type

Endpoint

Deploy Elastic Beanstalk - SWF

Input Parameters

Environment Name

Production

S3 Key

Raffle.zip

Application Name

Raffle

Build Number

123

Description

CONTENT

☒ Sample Application 2 (1.0)

☐ Sample Application 1 (2.1)

Cancel

Create

Navigate to Releases | My New Release

Click Create A Task

Enter Name and Description

Select Owner

Select AWS Elastic Beanstalk Deploy

Select the EndPoint

Select the Application.  
Note: Use @ to get a list of applications, Use % to use tokens

Enter the Environment

Enter the S3 Key  
*Note: S3 is Amazons storage bucket. These are the artifacts that will be deployed.*

Enter the build number

Enter a Description

Enter Application URL

*Note: This is the url for the web application*

If this task deploys content for an Application, check the content checkbox.

Click Create

## Create a BlazeMeter Task

**CREATE TASK**

Task Name \*

BlazeMeter

Type description here...

Owners

cstech-ctd X Swat X

Add Owners

Task Type

Run Test

Endpoint

BlazeMeter

**Input Parameters**

Workspace

Workspace Playground

Project

Project Playground

Test

Test\_UC14

Cancel Create

Enter Name and Description

Select Owner

Select BlazeMeter Run Test

Select the EndPoint

Select the Workspace.  
Note: Use @ to get a list of applications, Use % to use tokens

Select the Project

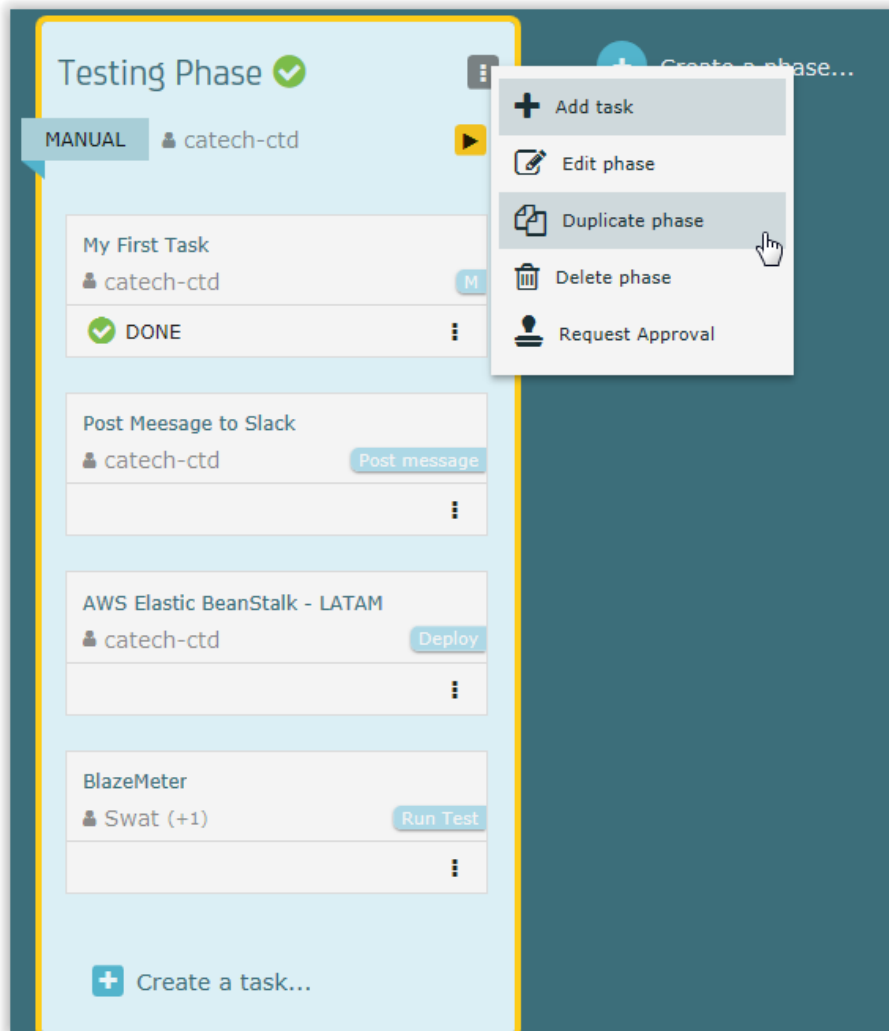
Select the BlazeMeter Test  
*Note: This test must already exist. For info on how to create a test:*

<https://guide.blazemeter.com/hc/en-us/articles/207420525-Creating-a-test>

Click Create

## Duplicate a Phase

Now that we have the first phase of our release built, we can duplicate it to create the next phase in our application development life cycle.



Click the 3 dots

Select Duplicate Phase

### DUPLICATE PHASE

Phase Name \*

Production

Owners

catech-ctd () X

Add Owners

CHOOSE HOW YOU WANT THE PHASE TO RUN

☐ Manual

☒ Automatic

☐ Scheduled

When you press run button

When previous phase ends

According to the estimated time

Tip: set estimated from/to for better insight

From

May 26th 2017, 4:35 pm

X

To

May 29th 2017, 4:35 pm

X

B

I

U

<>

Testing Phase\_\_

Environments

Production X

Add environment

Cancel

Duplicate

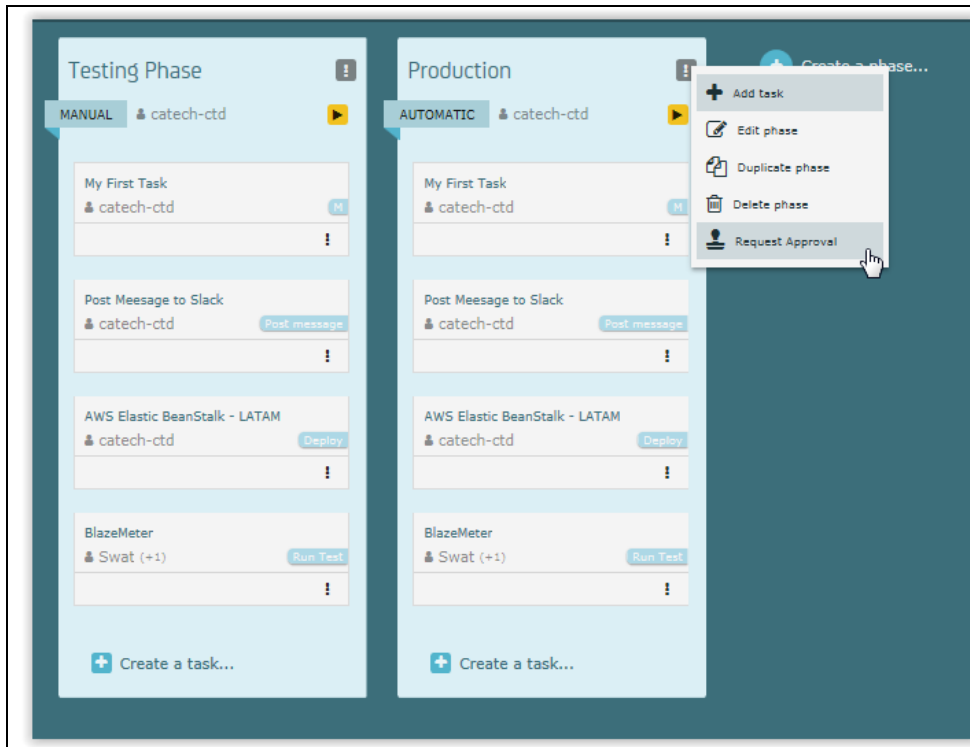
Change the Name

Set the Dates for the Phase

Set the Phase to Automatic

Change the Environment to Production

Click Duplicate



Click the 3 dots

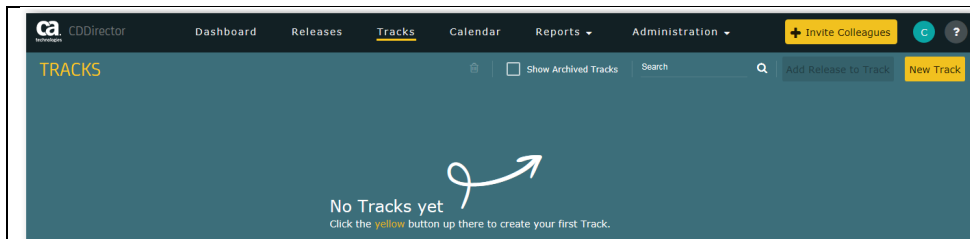
Select Request Approval

*Note: Setting the Approval Request means the phase wont start until Approval is granted.*

*Note: If you have a deployment task, you may want to change the Environment*

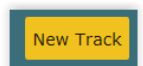
## Tracks

Release tracks bundle multiple releases into the same production deployment. Tracks increase the ability to monitor the progress and quality of releases in the track.



Select Tracks

Click New Track



Track Name \*

July Production Release

**B**

**I**

**U**




**</>**

Description

Owners

Mimi (Marta.Benach@ca.com) X

Add owners


\* Production Time Frame 



Jul 21st 2017, 3:37 p... X



Jul 23rd 2017, 4:37 p... X

Milestones(2) 



Add Milestone

UAT



Jun 9th 2017, 3:37 pm X

Load Testing



Jun 13th 2017, 3:37 ... X

Enter Track Name and Description

Set the Owner

Set the Production Timeframe

Create a Milestone for the Track

Enter the Milestone Name and Due Date

*Note: Milestones are checkpoints in the Release that is mapped to a phase in a release*

Click Create

## ADD RELEASE TO TRACK

Release list \*

CA Raffle System - Win environment - MB500 ver. 1

### \* Production Time Frame ?

From  
Jul 21, 2017 3:37:03 PM

To  
Jul 23, 2017 4:37:03 PM

Map To Phase  
Deploy to Amazon

### Milestones(2) ?

Milestone Name	Due Date	Map To Phase
UAT	Jun 9, 2017 3:37:00 PM	GUI Functional Testing
Load Testing	Jun 13, 2017 3:37:00 PM	Performance Testing

Cancel

Add

Highlight the Track and Select Add Release to Track

Add Release to Track

Enter the name of your Release.

*Note: Start Typing the first few letters of the Release Name to see a list of releases*

Select the Phase of the Release to map to the Production Milestone

Select the Phase of the Release to Map to the Integration Testing Milestone.

Click Add

## TRACK

June Release ? Add Release to Track

Release Name

My New Release - Copy

02/06

Integration

16/06 - 18/06

Production

The Release will be displayed as part of the track

Click on the Release name link

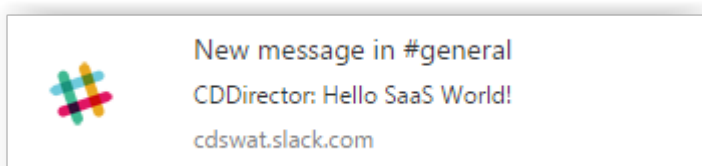
The screenshot displays the Release Management interface. On the left, there's a sidebar with 'Applications', 'Stakeholders', and 'Tokens'. The main area shows the 'Testing Phase' and 'Production' phases. The 'Testing Phase' is highlighted, and the 'Run phase' button is visible. The 'Production' phase is also shown with its tasks. The Activity panel on the right shows the release history.

Click the Start button to run the Release



The screenshot shows the CDDirector interface with the 'Releases' tab selected. It displays two columns: 'Testing Phase' and 'Production'. Each column contains a list of tasks with their status (e.g., 'DONE', 'Finished', 'Deployed', 'Run Test'). A right-hand sidebar shows an 'Activity' feed with recent events like 'Task AWS Elastic BeanStalk - LATAM (n Testing Phase) was executed automatically'.

As the Release is running, the tasks start and show their status.



Check Slack to see your message posted.

The screenshot shows the CDDirector interface with the 'Tracks' tab selected. It displays a timeline for a release named 'My New Release - Copy'. The timeline has two main phases: 'Integrati...' (02/06) and 'Production' (16/06 - 18/06). A 'Walk Me Through' button is visible at the bottom left.

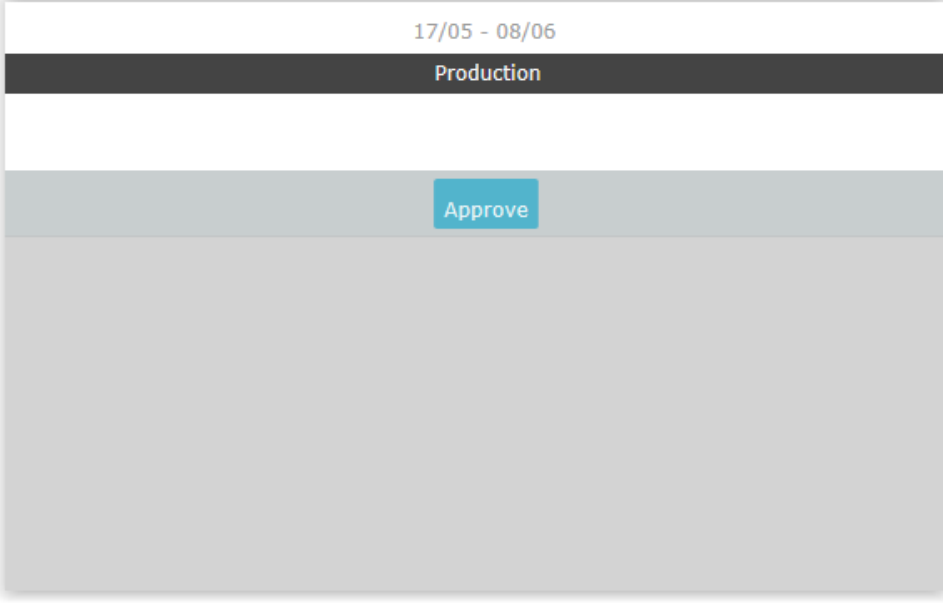
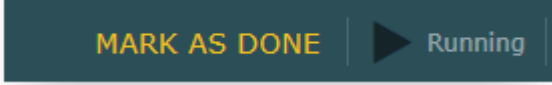
Return to the Tracks tab

The release now displays it's milestone status.

This screenshot is similar to the previous one, showing the 'Tracks' tab for the release 'My New Release - Copy'. The 'Integrati...' milestone now has a green checkmark, indicating completion. The 'Production' milestone remains scheduled for 16/06 - 18/06.

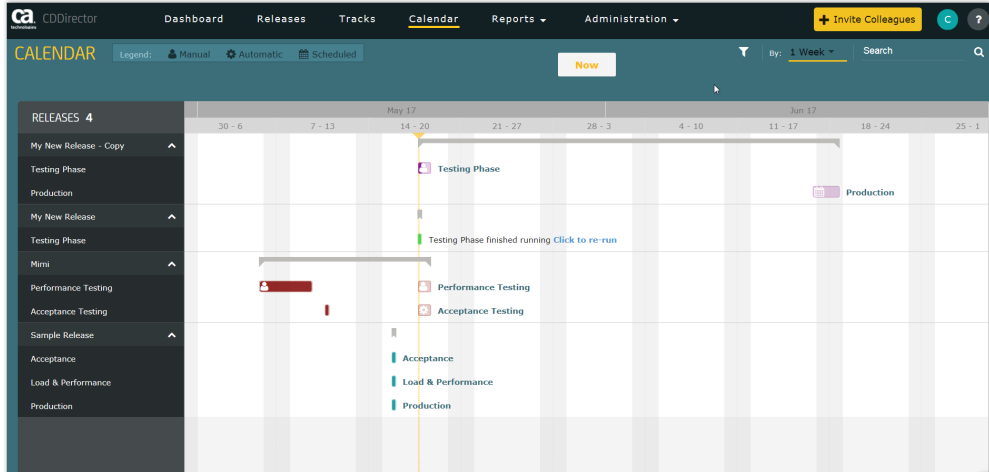
Once the phase is complete the status will update.

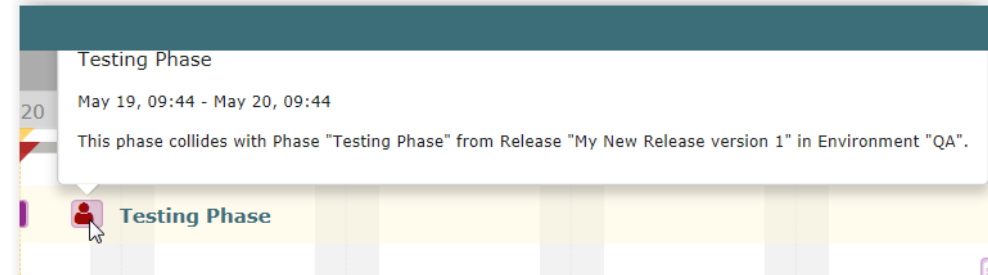
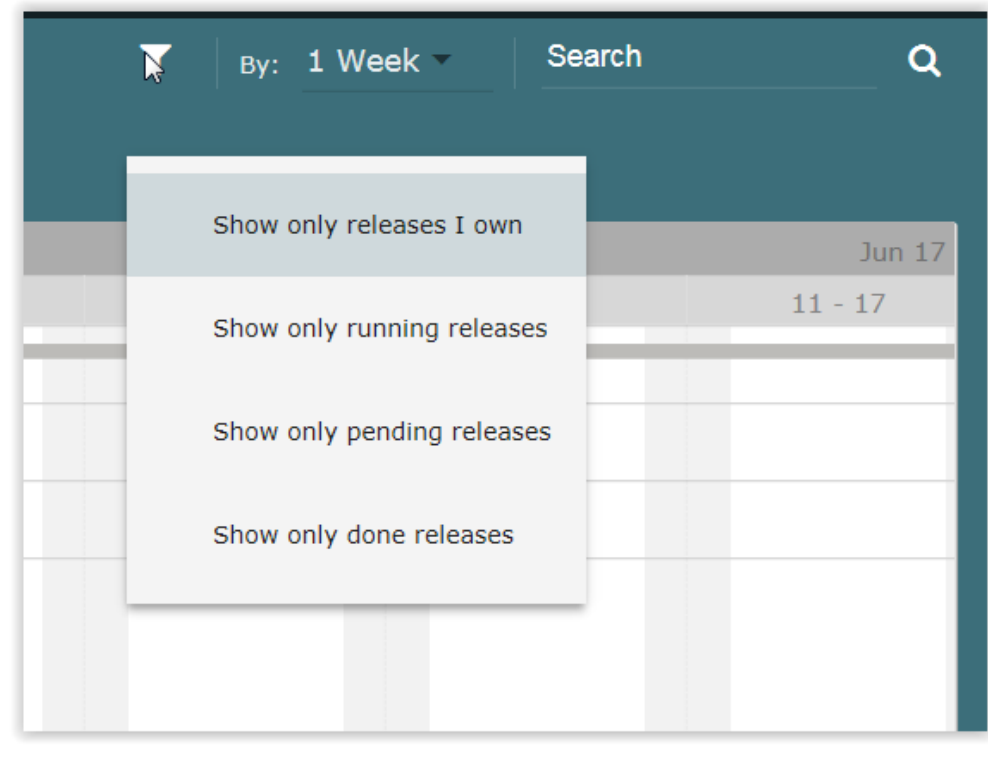


	<p>When the Production timeframe starts, the Approve button will appear, provided the milestones were successful.</p> <p>Click Approve</p> <p>The Production Phase of the release will start</p> <p>Click on the Release Name hyperlink to view the running release</p>
	<p>Once the Release is complete, Select Mark as Done</p>

## Calendar

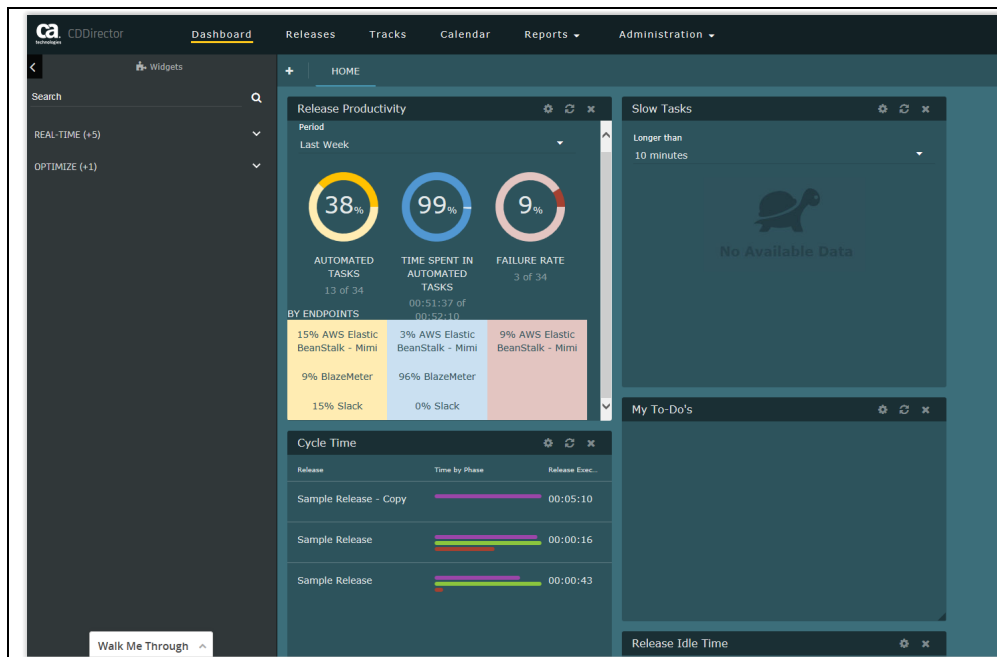
The Release calendar provides a high-level interactive view of all planned and running releases. It shows information including real-time release scheduling, release progress, maintenance windows, and conflicts.

	<p>Select the Calendar tab</p> <p>The Releases are on the left.</p> <p>Click the arrow to expand the release information</p> <p>Hover over the colored bars to see phase date information</p> <p>You can move phases that haven't yet been run and re-run phases</p>
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	<p>Conflicts are indicated by the red triangle</p> <p>Hover over the Phase to see the conflict information.</p>
	<p>Filter the calendar to show specific releases.</p> <p>Filter the calendar by time by clicking on the By: 1 Week drop down</p>

## Dashboard and Reporting

The dashboard and reporting features help you track and troubleshoot release trends over time.



Click on the Dashboard tab

Check out the different widgets available.

*Note: The widgets are in the black panel on the left hand side. You can create multiple customized dashboard views by clicking the + sign.*