Shanthan Kakulavaram

Customer : Avalara

Prepared by : Shanthan Kakulavaram

Date : 03/31/2020

Talend Cloud Administrator Guide

Contents

[Talend Cloud functional architecture 8](#_Toc27572256)

[Local network 8](#_Toc27572257)

[Cloud infrastructure 9](#_Toc27572258)

[General account and license information 9](#_Toc27572259)

[Account information 9](#_Toc27572260)

[Subscription information 10](#_Toc27572261)

[License information 10](#_Toc27572262)

[Engine tokens 10](#_Toc27572263)

[Seats 10](#_Toc27572264)

[Creating users 11](#_Toc27572265)

[Procedure 11](#_Toc27572266)

[Managing roles 13](#_Toc27572267)

[User roles 13](#_Toc27572268)

[Creating custom roles 13](#_Toc27572269)

[Procedure 13](#_Toc27572270)

[Editing custom role permissions 16](#_Toc27572271)

[Procedure 16](#_Toc27572272)

[Assigning roles 17](#_Toc27572273)

[Procedure 17](#_Toc27572274)

[Creating user groups 18](#_Toc27572275)

[Procedure 18](#_Toc27572276)

[Adding users to groups 18](#_Toc27572277)

[Procedure 19](#_Toc27572278)

[Generating a Personal Access Token 19](#_Toc27572279)

[About this task 19](#_Toc27572280)

[Procedure 20](#_Toc27572281)

[Example 21](#_Toc27572282)

[Managing personal access tokens for all users 21](#_Toc27572283)

[Before you begin 21](#_Toc27572284)

[About this task 22](#_Toc27572285)

[Procedure 22](#_Toc27572286)

[SSO with OneLogin 22](#_Toc27572287)

[Creating the Talend Cloud application in OneLogin 22](#_Toc27572288)

[Adding the custom parameter 24](#_Toc27572289)

[Downloading the metadata file 26](#_Toc27572290)

[Configuring single sign-on (SSO) for Talend Cloud 27](#_Toc27572291)

[About Multi-factor Authentication (MFA) 27](#_Toc27572292)

[Enabling SSO in Talend Cloud Management Console 28](#_Toc27572293)

[Prerequisites 28](#_Toc27572294)

[Procedure 28](#_Toc27572295)

[Creating projects 29](#_Toc27572296)

[Procedure 29](#_Toc27572297)

[Assigning users to projects 30](#_Toc27572298)

[Procedure 30](#_Toc27572299)

[Editing projects 31](#_Toc27572300)

[Procedure 32](#_Toc27572301)

[Environments 32](#_Toc27572302)

[Creating environments 32](#_Toc27572303)

[About this task 32](#_Toc27572304)

[Procedure 33](#_Toc27572305)

[Example 33](#_Toc27572306)

[Results 34](#_Toc27572307)

[Assigning cloud engines to environments 34](#_Toc27572308)

[Before you begin 35](#_Toc27572309)

[About this task 35](#_Toc27572310)

[Procedure 35](#_Toc27572311)

[Example 35](#_Toc27572312)

[Results 36](#_Toc27572313)

[Assigning remote engines and clusters to environments 36](#_Toc27572314)

[Before you begin 36](#_Toc27572315)

[Procedure 36](#_Toc27572316)

[Example 37](#_Toc27572317)

[Results 37](#_Toc27572318)

[Workspaces 37](#_Toc27572319)

[Creating workspaces 37](#_Toc27572320)

[About this task 38](#_Toc27572321)

[Procedure 38](#_Toc27572322)

[Setting workspace permissions for users 39](#_Toc27572323)

[Procedure 39](#_Toc27572324)

[Setting user permissions for workspaces 40](#_Toc27572325)

[Procedure 40](#_Toc27572326)

[Moving tasks to another workspace 42](#_Toc27572327)

[Before you begin 42](#_Toc27572328)

[Procedure 42](#_Toc27572329)

[Deleting workspaces 45](#_Toc27572330)

[About this task 45](#_Toc27572331)

[Procedure 45](#_Toc27572332)

[Remote Engine 46](#_Toc27572333)

[Creating Remote Engines 46](#_Toc27572334)

[Procedure 46](#_Toc27572335)

[Downloading Talend Remote Engines 47](#_Toc27572336)

[Method 1 47](#_Toc27572337)

[Method 2 47](#_Toc27572338)

[Installing Talend Remote Engines 48](#_Toc27572339)

[Pairing Talend Remote Engines 49](#_Toc27572340)

[Prerequisites 49](#_Toc27572341)

[Procedure 49](#_Toc27572342)

[Pairing Remote Engine with webservice 50](#_Toc27572343)

[Remote Engine Cluster 51](#_Toc27572344)

[Creating Talend Remote Engine Clusters 51](#_Toc27572345)

[Assigning Remote Engines to Clusters 51](#_Toc27572346)

[Artifacts 53](#_Toc27572347)

[Before you begin 53](#_Toc27572348)

[Procedure 53](#_Toc27572349)

[Example 53](#_Toc27572350)

[Example 53](#_Toc27572351)

[Example 54](#_Toc27572352)

[Results 54](#_Toc27572353)

[Managing artifact versions 55](#_Toc27572354)

[Procedure 55](#_Toc27572355)

[Example 56](#_Toc27572356)

[Managing Jobs 56](#_Toc27572357)

[Creating Job tasks 56](#_Toc27572358)

[Procedure 57](#_Toc27572359)

[Example 57](#_Toc27572360)

[Example 58](#_Toc27572361)

[Example 58](#_Toc27572362)

[Example 60](#_Toc27572363)

[Example 60](#_Toc27572364)

[Results 62](#_Toc27572365)

[Example 62](#_Toc27572366)

[Executing Job tasks manually 63](#_Toc27572367)

[Before you begin 63](#_Toc27572368)

[Procedure 63](#_Toc27572369)

[Example 63](#_Toc27572370)

[Example 64](#_Toc27572371)

[Results 64](#_Toc27572372)

[Accessing and editing Job tasks 65](#_Toc27572373)

[Before you begin 65](#_Toc27572374)

[Procedure 65](#_Toc27572375)

[Example 65](#_Toc27572376)

[Example 66](#_Toc27572377)

[Results 66](#_Toc27572378)

[Moving a Job task to another workspace 67](#_Toc27572379)

[Before you begin 67](#_Toc27572380)

[Procedure 67](#_Toc27572381)

[Example 68](#_Toc27572382)

[Example 68](#_Toc27572383)

[Example 69](#_Toc27572384)

[Editing the Job task description 70](#_Toc27572385)

[Before you begin 70](#_Toc27572386)

[Procedure 70](#_Toc27572387)

[Example 70](#_Toc27572388)

[Changing the artifact version used in a Job task 71](#_Toc27572389)

[Before you begin 71](#_Toc27572390)

[Procedure 71](#_Toc27572391)

[Example 72](#_Toc27572392)

[Results 72](#_Toc27572393)

[Updating Job tasks with latest artifact version 72](#_Toc27572394)

[Before you begin 72](#_Toc27572395)

[About this task 73](#_Toc27572396)

[Procedure 73](#_Toc27572397)

[Example 73](#_Toc27572398)

[Example 73](#_Toc27572399)

[Example 74](#_Toc27572400)

[Results 74](#_Toc27572401)

[Deleting Job tasks 75](#_Toc27572402)

[Before you begin 75](#_Toc27572403)

[About this task 75](#_Toc27572404)

[Procedure 75](#_Toc27572405)

[Example 75](#_Toc27572406)

[Example 76](#_Toc27572407)

[Scheduling Job executions 77](#_Toc27572408)

[About this task 77](#_Toc27572409)

[Procedure 77](#_Toc27572410)

[Example 77](#_Toc27572411)

[Example 78](#_Toc27572412)

[Example 79](#_Toc27572413)

[Results 80](#_Toc27572414)

[What to do next 80](#_Toc27572415)

[Monitoring executions 81](#_Toc27572416)

[Viewing execution logs 82](#_Toc27572417)

[About this task 82](#_Toc27572418)

[Procedure 83](#_Toc27572419)

[Example 83](#_Toc27572420)

[Example 84](#_Toc27572421)

[Example 86](#_Toc27572422)

[Example 87](#_Toc27572423)

[Downloading execution logs 88](#_Toc27572424)

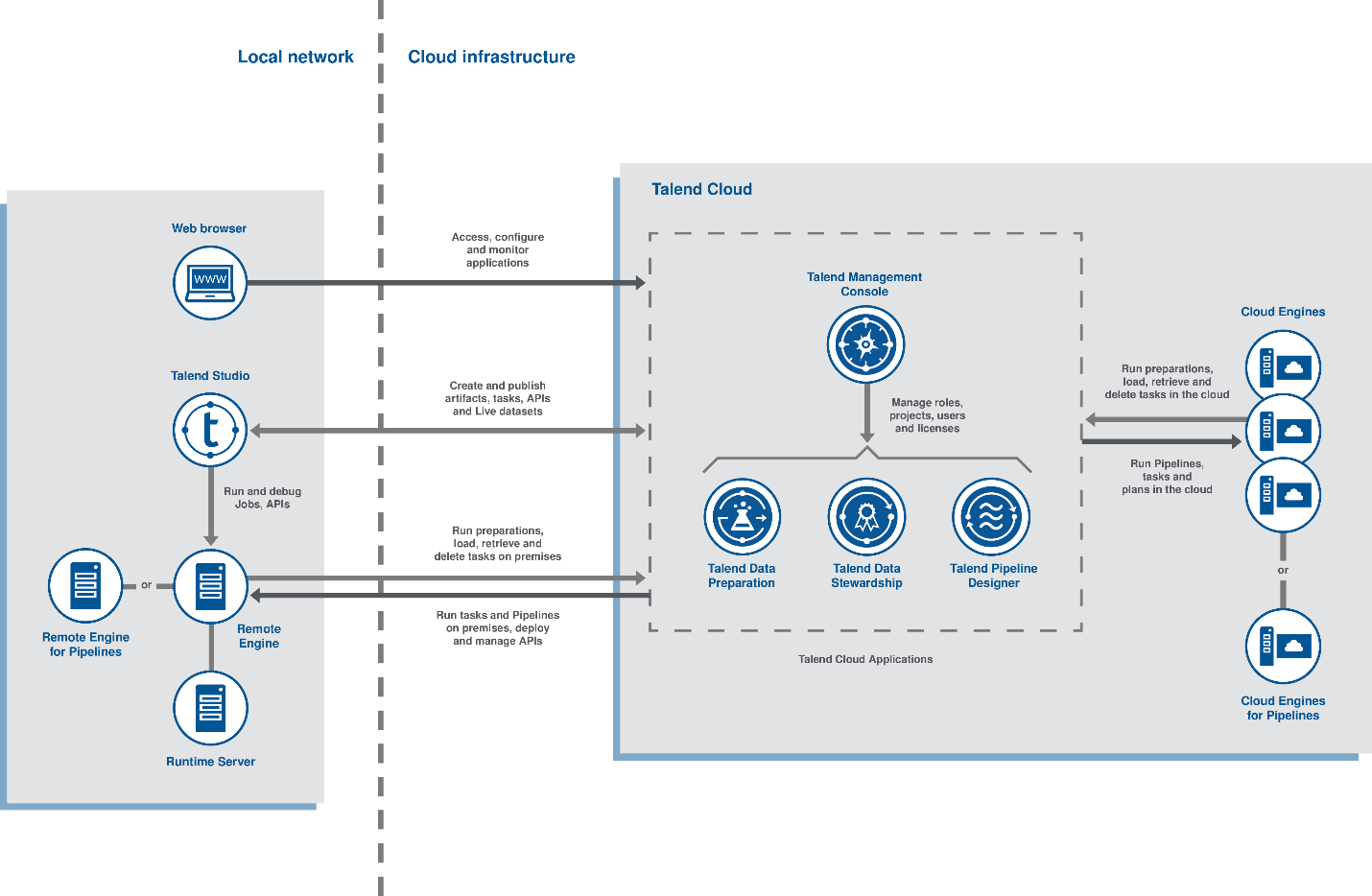
[About this task 88](#_Toc27572425)

[Procedure 88](#_Toc27572426)

[Talend Cloud Management Console Public API 89](#_Toc27572427)

# Talend Cloud functional architecture

Talend Cloud is a fully-managed cloud option. It provides the great data integration, data quality, and Big Data features from Talend in a cloud environment that is managed, monitored, maintained, and secured by Talend.



The diagram of the Talend Cloud functional architecture is divided into two main parts: the local network and the cloud infrastructure.

## Local network

The local network includes a web browser, Talend Studio, and a Remote Engine or a Remote Engine for Pipelines.

* From your web browser, you can access the different cloud applications.
* From Talend Studio, you can:
  + Publish data integration Jobs to Talend Cloud Management Console as Tasks, make them available to web users, and run them in the cloud.
  + Benefit from the Talend Cloud Data Preparation features through the use of the tDatasetInput, tDatasetOutput, and tDataprepRun components. You can create datasets from various databases and export them in Talend Cloud Data Preparation, or leverage a preparation directly in a data integration Job or Spark Job.
  + Use Jobs with tDataStewardshipTaskOutput, tDataStewardshipTaskInput and tDataStewardshipTaskDelete to load, retrieve, or delete tasks from the campaigns created in the Talend Cloud Data Stewardship.
* The Talend Remote Engine is used to run Jobs, Tasks, and preparations, or pipelines, on premises.

## Cloud infrastructure

The cloud infrastructure includes the cloud applications and the Cloud Engines.

* In Talend Cloud Management Console, you can administrate roles, users, projects, and access license information. You can create new users for the cloud applications and assign them to custom groups. You can then define roles and assign them to your users. Talend Cloud Management Console stores your Talend Studio license files and enables you to create projects to collaborate on in Studio. In addition, you can enable data and file transfer, data integration, and access to shared data sources for web users. You can, for example, import and use preconfigured sample Tasks, or design Tasks that automate the exchange and synchronization of data between applications.
* In Talend Cloud Pipeline Designer, you can design complex end-to-end pipelines to process, enrich and transform data at rest or in motion. You can run these Pipelines either using the embedded Cloud Engine for Pipelines or using a Remote Engine for Pipelines installed on your Virtual Private Cloud or on premises.
* In Talend Cloud Data Preparation, you can import your data from local files or other sources, and cleanse or enrich it by creating new preparations.
* In Talend Cloud Data Stewardship, campaign owners manage data assets and organize the data interactions whenever human intervention is required to collaborate on data curation, arbitration, or validation.

The Cloud Engines are used to run Artifacts, Tasks, and preparations, or pipelines, in the cloud.

# General account and license information

You can access your account, subscription, license, and engine token consumption information on the **SUBSCRIPTION** page in Talend Cloud Management Console.

## Account information

* Account name
* Account ID

## Subscription information

* Start date
* Expiry date
* License type
* Available applications
* Support level

## License information

* Number of available engine tokens
* Number of used Cloud Engines
* Number of used Remote Engines and Remote Engines for Pipelines
* Number of available seats per application

## Engine tokens

Based on your license, you have a certain number of tokens that you can use to create Remote Engines for Pipelines, Remote Engines, or assign Cloud Engines to environments. Executing a Task on a shared (unassigned) Cloud Engine also consumes engine tokens. Once all the tokens are used up, it is not possible to create new engines or assign Cloud Engines.

The number of Cloud Engines marked as **In Use** is the sum of the running and assigned Cloud Engines.

To purchase new tokens, contact your customer success manager or email [customersuccess@talend.com](mailto:customersuccess@talend.com).

## Seats

Based on your license, you have a defined number of seats available per application. Those seats are consumed by users according to the roles and permissions they have.

A single user can consume up to one seat for each application.

Each user with at least one role or permission related to Talend Cloud Data Preparation, Talend Cloud Data Stewardship, Talend Studio, and Talend Cloud Pipeline Designer consumes a seat for that application.

**Note:** Talend Cloud Pipeline Designer seats are shared with Talend Studio seats.

Each user with at least one of the following default roles or individual permissions consumes a seat in Talend Cloud Management Console:

* Roles
  + **Environment Administrator**
  + **Infrastructure Administrator**
  + **Operator**
* Permissions
  + **Static IP - Manage**
  + **Promotion - Manage**
  + **Promotion - Start**
  + **Operations - Manage**
  + **Export Logs - Manage**
  + **Engines - Manage**
  + **Environments – Manage**

# Creating users

Use Talend Cloud Management Console to create and manage users in Talend Cloud web applications.

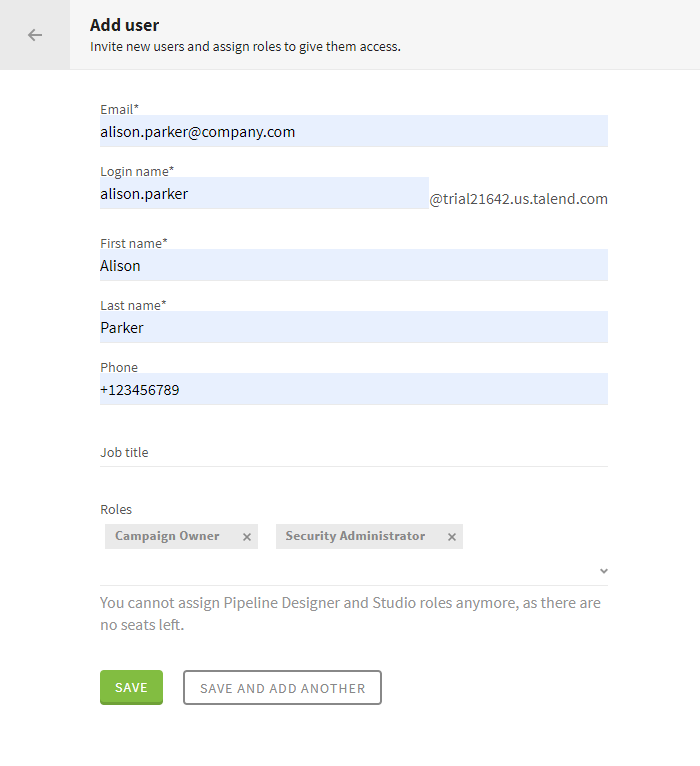
## Procedure

1. Open the **Users** page.
2. Click **Add User**.
3. Enter the email address, the login name, and the first and last name of the user.

If the single sign-on option is enabled, ensure that the user's Talend Cloud email address is their username in OneLogin.

1. **Optional:**Assign predefined roles to the new user from the **Role(s)** drop-down list for each of the cloud applications.

The created user cannot log in until a role is assigned.



1. **Optional:**To assign the new user to an existing group, select a group from **Group(s)** drop-down list.
2. Click **Save**.

# Managing roles

Use Talend Cloud Management Console to create and manage user roles for Talend Cloud applications.

You can access the predefined list of roles, add new roles, manage role permissions, and assign roles to users on the **ROLES** tab in Talend Cloud Management Console.

Based on your license, you have a defined number of seats available per application. Those seats are consumed by users according to the roles and permissions they have.

## User roles

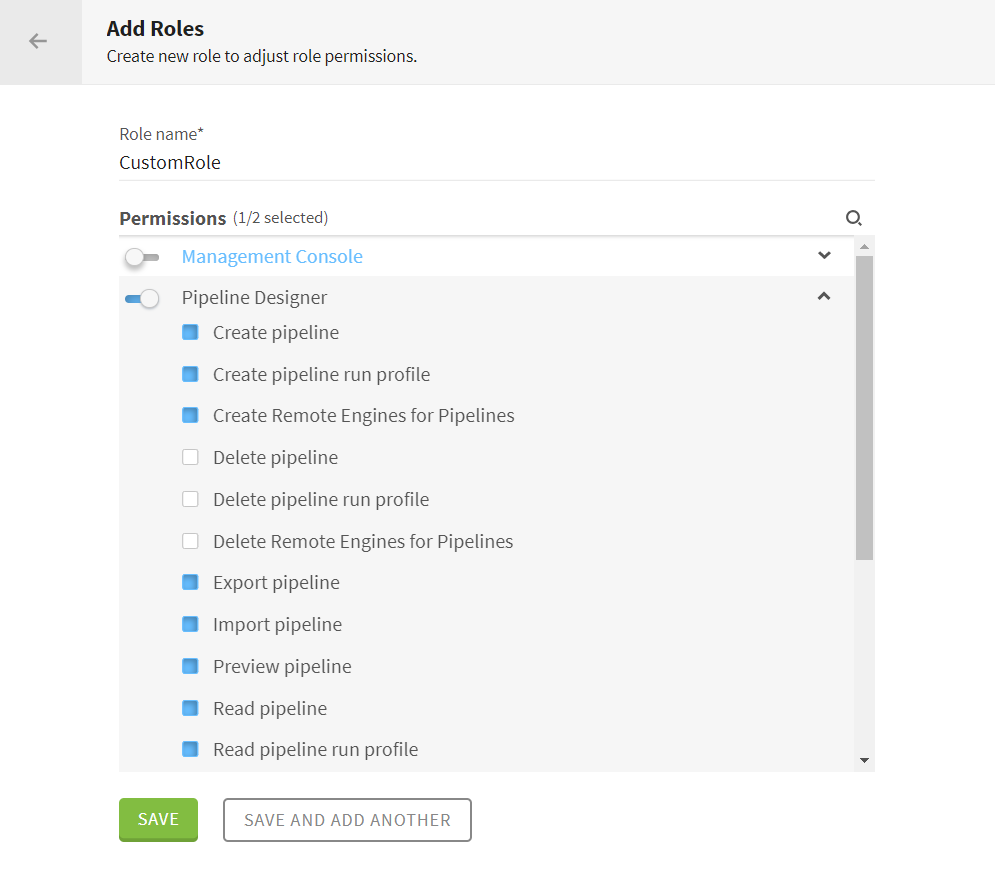
Custom Roles will be created for users based on the role played by the user as listed below.

* **Admin:** The user must have Security Administrator, Operator, Project Administrator , Environment Administrator, Infrastructure Administrator and Integration Developer(optional) roles. Admin will create and config users, environment, workspace, projects, engines , assign roles, provide access to workspace and projects, schedule or manage tasks, etc. Most of configuration in Management Console will be managed by Admin with role of Admin.
* **ETL\_Manager/Operator:** The Operator will manage, schedule and manually execute the tasks. The operator must be assigned Operator role.
* **Developer:** Developer will have studio access to develop Talend jobs. The developer might need to access management console to execute jobs in cloud. Hence developer must have Integration Developer and Operator Role.
* **Tester:** Tester will be testing the Talend jobs for expected output. Tester will be executing or scheduling Talend jobs. Hence must have Operator Role.
* **Publisher:** The Publisher will have Operator Role. The Publisher is the only user with publish access to all workspaces. This user will be used in Jenkins for CICD.

## Creating custom roles

### Procedure

1. Open the **Roles** page.
2. Click **Add Role**.
3. Enter the role name.
4. Set the permissions for the available application(s).



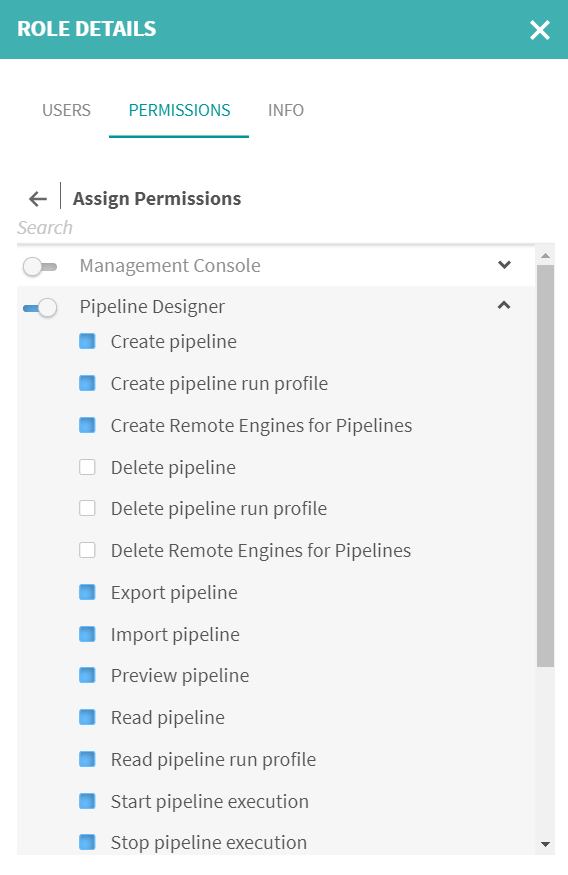
1. Click **Save**.
2. The following Permissions must be set for the custom user roles.

|  |  |  |
| --- | --- | --- |
| **Maximus Custom Roles** | **Corresponding Talend Roles** | **Custom Role Permissions** |
| Admin | Security Administrator  Operator  Project Administrator  Environment Administrator  Infrastructure Administrator |  |
| Developer | Integration Developer  Operator |  |
| ETL\_Manager /Operator | Operator |  |
| Tester | Operator |  |
| Publisher  (Service Account for CICD) | Operator |  |

## Editing custom role permissions

### Procedure

1. Click the name of the role in the **Roles** page.
2. Click **Permissions** in the **Role Details** window.
3. Click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\5656EE80.tmp icon to access the list of permissions.
4. Select the appropriate permission for each application.



1. Click **Save**.

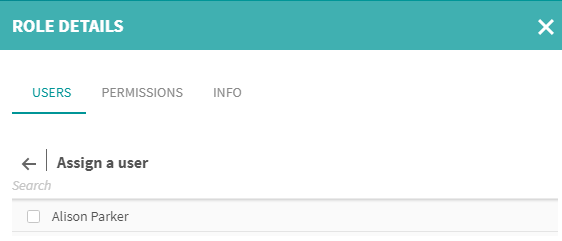
## Assigning roles

Assign roles to specific users using the **Role Details** page.

### Procedure

1. On the **Roles** page, click the name of the role.
2. Click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\598D63CC.tmp icon to access the list of users.
3. Select the user(s) from the list.

If the list of users is too long, start typing the username in the search field.



# Creating user groups

Use Talend Cloud Management Console to create and manage user groups in your Talend Cloud applications. You can use user groups to assign a project to several users. **Create groups based on user’s participation in Projects. For example, ‘GAEB ETL Developer’ as group to access GAEB project. Project access is created for studio access only.**

**Note:** You cannot assign roles to a group as they are managed individually for each user. Users from the same group can have different roles.

## Procedure

1. Open the **Groups** page.
2. Click **Add Group**.
3. Enter the group name.
4. Click **Save**.

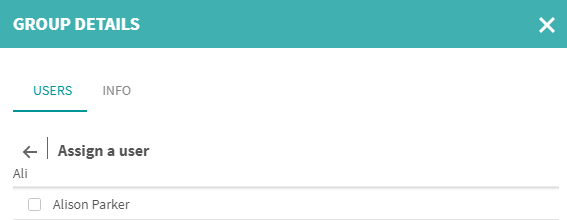
## Adding users to groups

Assign users to the created user groups.

### Procedure

1. Open the **Groups** page to access the list of user groups.
2. Click the name of the group.
3. Click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\6C2967D8.tmp icon in the **Group Details** window to access the list of users.
4. Select the users from the list.

If the list of users is too long, start typing the user name in the search field.



# Generating a Personal Access Token

Bearer JWT (JSON Web Token) Personal Access Tokens are long-term credentials that you can use to sign programmatic requests to the Talend CloudAPIs or to connect Talend Studio to Talend Cloud.

## About this task

Access Tokens are personal and the permissions they grant are synchronized with the user's permissions, at any time. When you generate a token, it is only displayed once.

You can have up to five active tokens at the same time. It is a best practice to keep as few active tokens as possible. Delete unused tokens and replace old tokens to increase the system security.

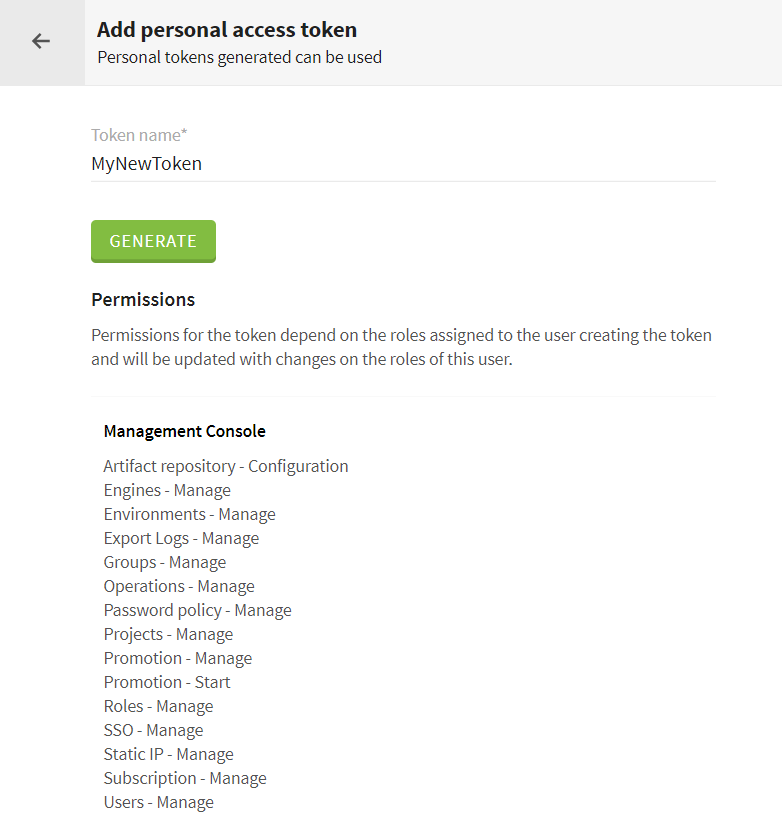
**Important:** Access Tokens are the safest and recommended authentication mode to use.

### Procedure

1. Log in to the Talend Cloud portal or an application.
2. In the top right corner, click the user menu then **Profile preferences**.
3. Go to the **PERSONAL ACCESS TOKENS** page. This page allows you to manage all your tokens.
4. Select **ADD TOKEN**.

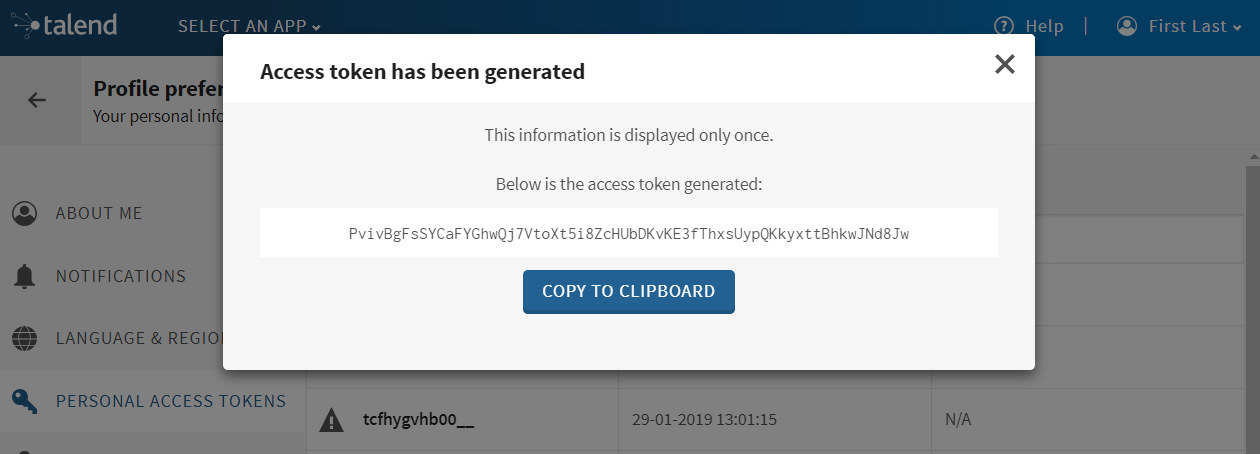
A new page opens. If you have the **Roles - Manage** permission, you can see all the permissions associated to the token.

1. Enter the **Token name**.
2. Click **GENERATE**.



A Bearer Token is generated and opens in a new window that is displayed only once. If you close it without copying the token, you will not be able to use this token.

1. Copy the token and paste it where you need.



The permissions of the generated token correspond to your current permissions. If your permissions change after generating the token, the token permissions change accordingly.

After generating a token, you can only edit its name or delete it. Security Administrators can also see and delete your tokens.

### Example

cURL request using a generated token:

curl -X GET 'https://api.us.cloud.talend.com/tmc/v1.2/executables' \

-H 'Authorization: Bearer eyJraWQiOiJpYW0tb2lpYy1jbG91ZCIsImQu2WembcCB'

## Managing personal access tokens for all users

As an administrator, you can view and delete personal access tokens created by the users of the platform.

### Before you begin

To access the token management view, you need the **Users - Manage** permission.

### About this task

Talend Cloud users can generate up to five access tokens. As an administrator, you can view the name, owner, creation date and last date used for each token generated on the account. You can delete tokens individually or by group.

It is recommended to delete unused and old tokens to increase the system security.

### Procedure

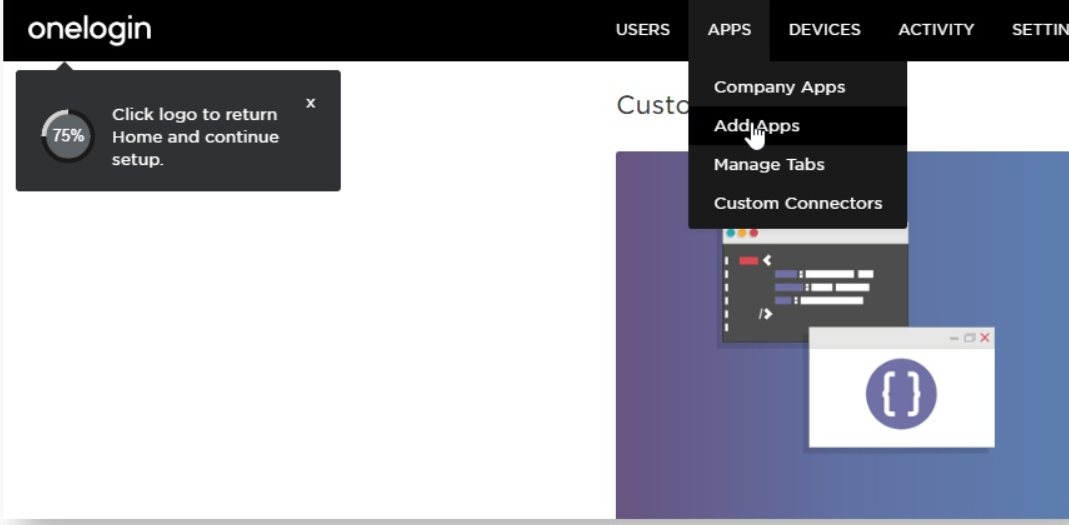
1. Open the **USERS** page.
2. Select **ACCESS TOKENS**.
3. Find tokens using the search or by sorting columns.
4. Select tokens you want to delete.
5. Click **DELETE** and confirm the operation.

You cannot recover deleted tokens. If you delete a token by mistake, the user will have to create a new one.

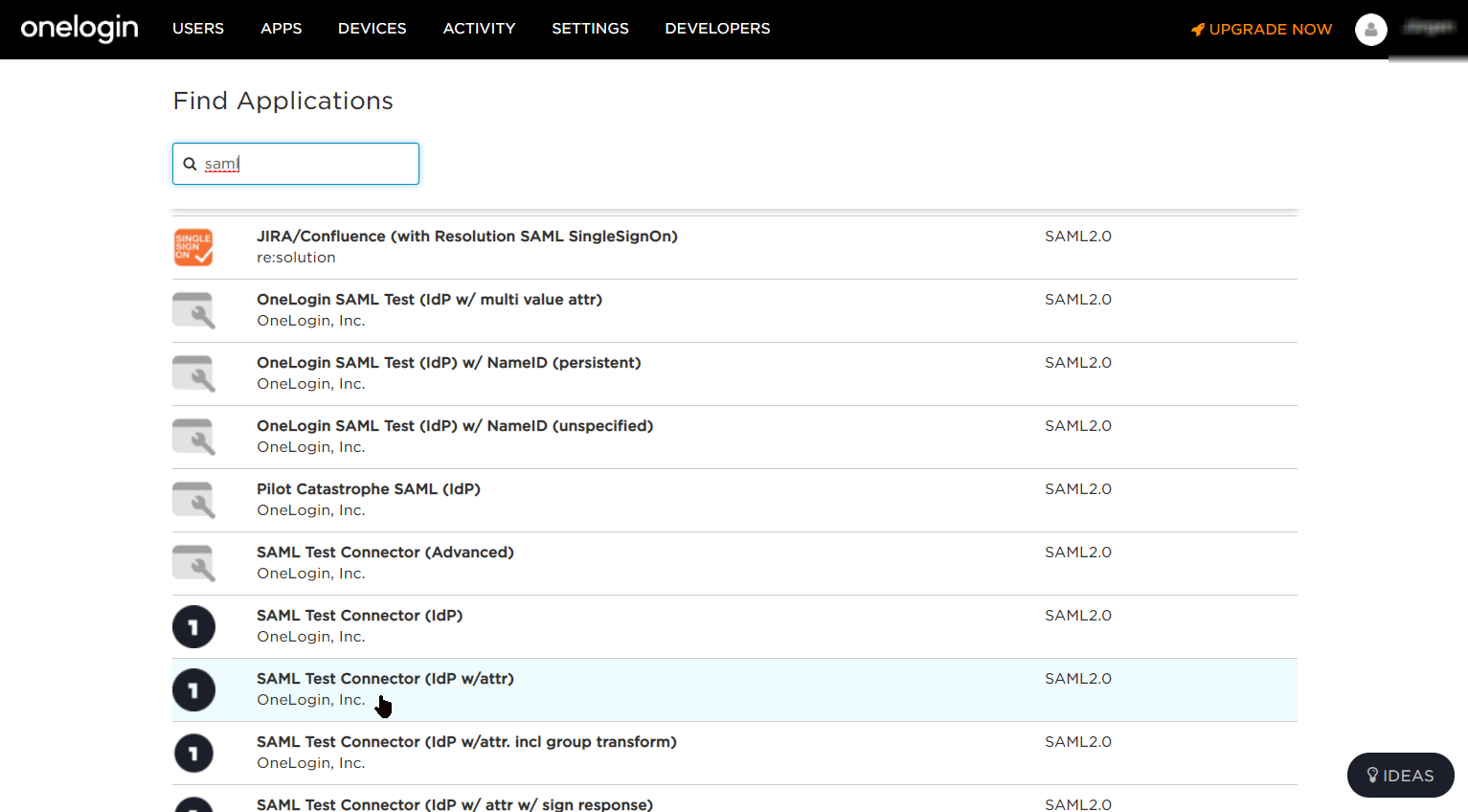
# SSO with OneLogin

## Creating the Talend Cloud application in OneLogin

1. Log in to your administrator OneLogin account.
2. Click Apps > Add Apps.



1. Start typing saml in the search field, then click SAML Test Connector (IdP w/attr).



1. Change the application name if needed, then click Save.

You are redirected to the home page.

1. Go to the administration view again, and click Apps > Company Apps.
2. Click the newly created app in the list.
3. On the **SAML Test Connector (IdP w/attr)** page, go to the Configuration tab.
4. Enter the configuration details.

Enter one of the following URLs to the RelayState, Audience, Recipient, ACS (Consumer) URL Validation, and ACS (Consumer) URL fields, depending on where your Talend Cloud account is hosted:

**US data center**

https://iam.us.cloud.talend.com/oidc/ssologin

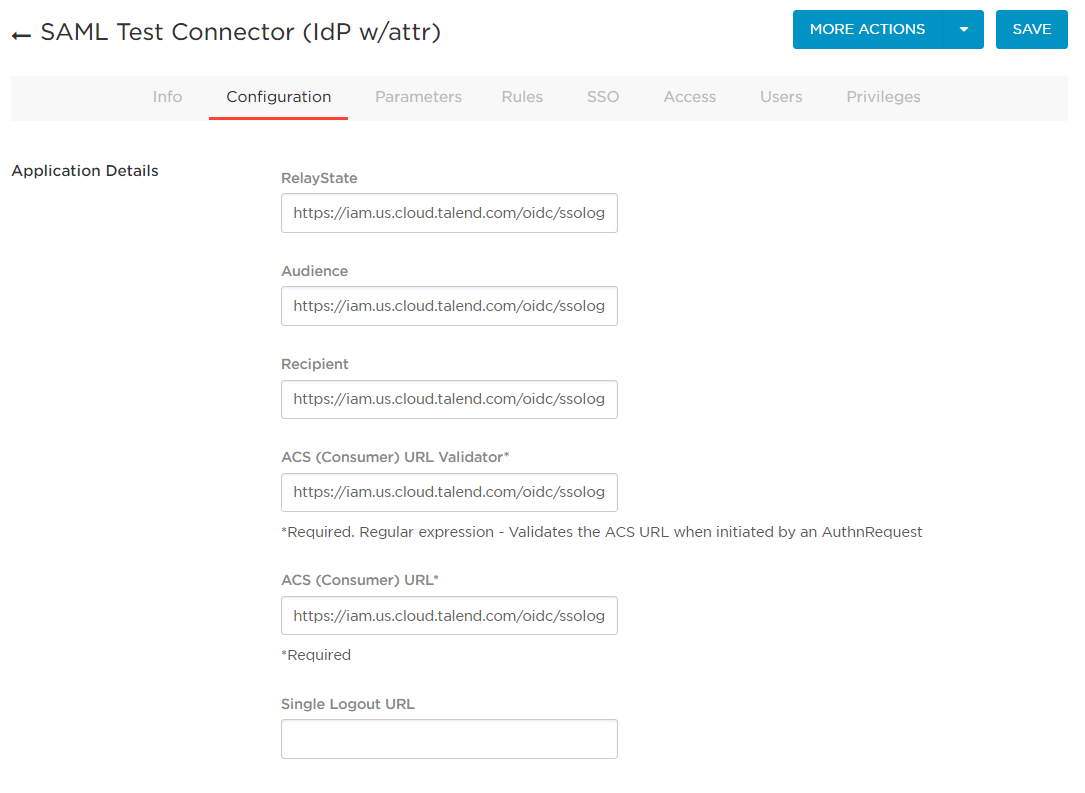
**European data center**

https://iam.eu.cloud.talend.com/oidc/ssologin

**Asia-Pacific data center**

https://iam.ap.cloud.talend.com/oidc/ssologin

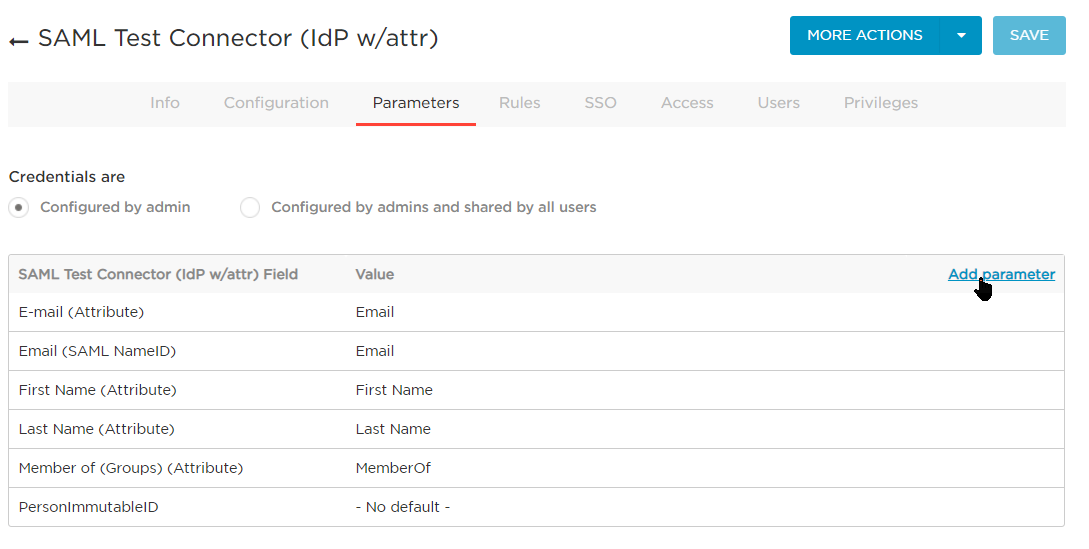
Leave the Single Logout URL field empty.



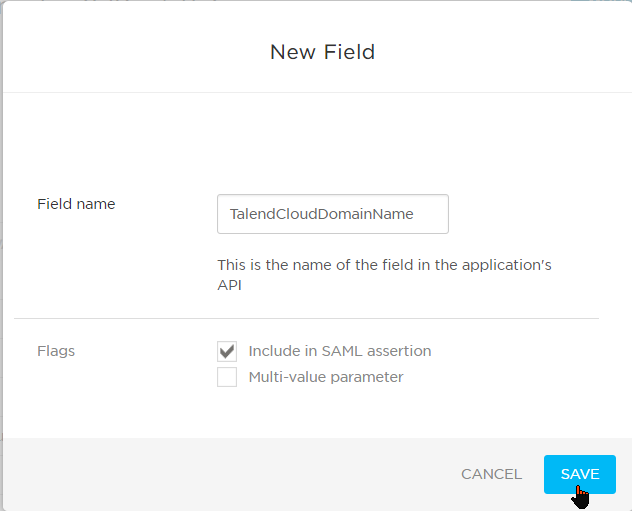
1. Click Save.

## Adding the custom parameter

1. Go back to the application configuration, and navigate to the **Parameters** tab.
2. Click Add parameter.

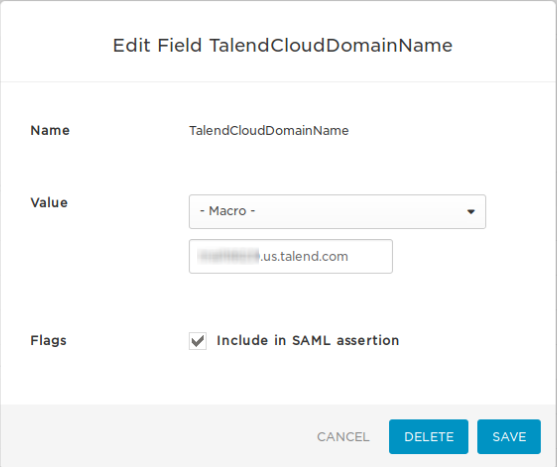


1. Enter TalendCloudDomainName in the Field name.
2. Select the Include in SAML assertion check box in the Flags section, then click Save.



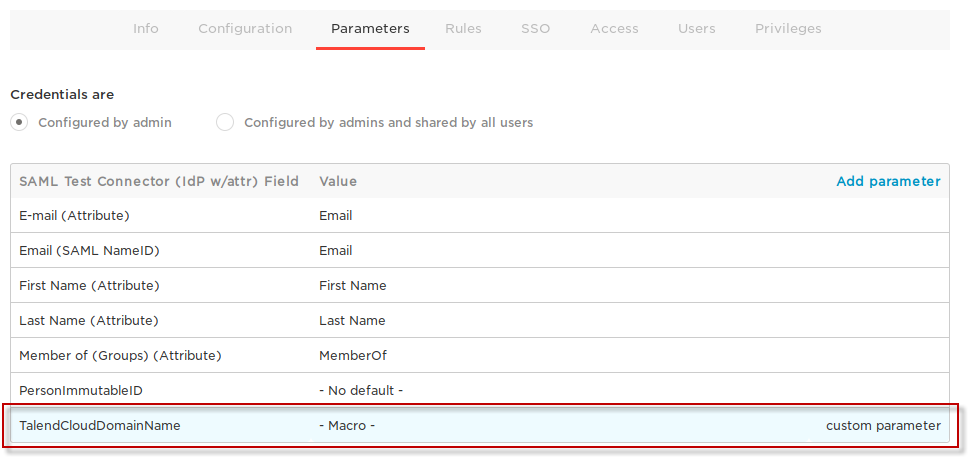
1. In the **Edit Field TalendCloudDomainName** pop-up window, select Macro from the Value drop-down list.
2. Enter your account name in the input field below, then click Save.

You can find the account name on the **Subscription** page in Talend Cloud Management Console.



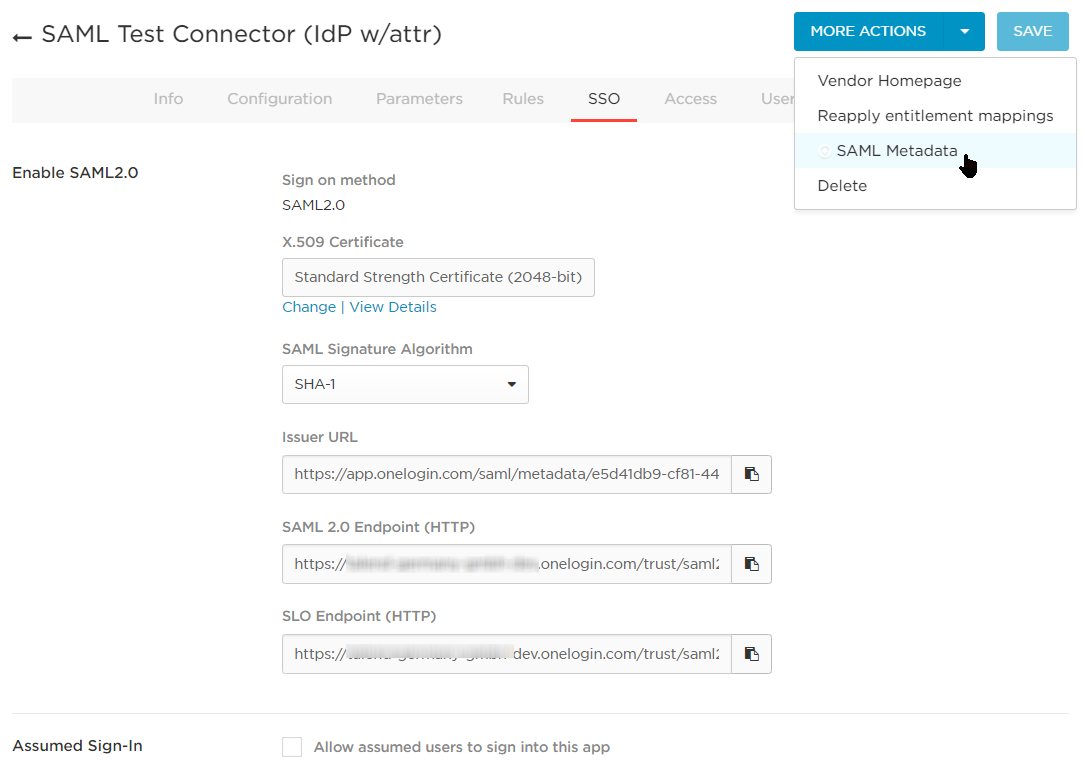
1. Click Save.

The custom parameter is added to the list.



## Downloading the metadata file

1. Go back to the application configuration.
2. Click More Actions > SAML Metadata.



# Configuring single sign-on (SSO) for Talend Cloud

You can change the default authentication mode to SSO.

Talend Cloud offers generic login configuration options that allow you to set up SSO with the identity provider of your choice through SAML 2.0. To enable it:

1. Create an application on the SSO provider side and download a metadata file containing the SAML parameters of the created application. Refer to [Talend Cloud Single Sign-On (SSO) Configuration Guide](https://help.talend.com/access/sources/content/map?pageid=cloud_sso_guide&EnrichVersion=Cloud&afs:lang=en) to learn how to configure SSO with one of Talend Cloud's certified providers: Okta, OneLogin, PingFederate, or Microsoft Azure Active Directory.
2. Enable SSO from Talend Cloud Management Console by specifying the SSO Organization URL as well as the metadata. Refer to [Enabling SSO in Talend Cloud Management Console](https://help.talend.com/reader/6SB6Qfc014RWM4mEltupHA/YFhCzQWg1g~~XKAPsh4S8Q).

## About Multi-factor Authentication (MFA)

You can use Multi-factor Authentication (MFA) to log in to Talend Cloud if you use one of the certified SSO providers. To enable MFA, select the corresponding option on the external SSO provider. Talend Cloud will be compliant with it.

**Note:** If SSO is enabled, users can only connect Talend Studio to Talend Cloud using a Personal Access Token.

# Enabling SSO in Talend Cloud Management Console

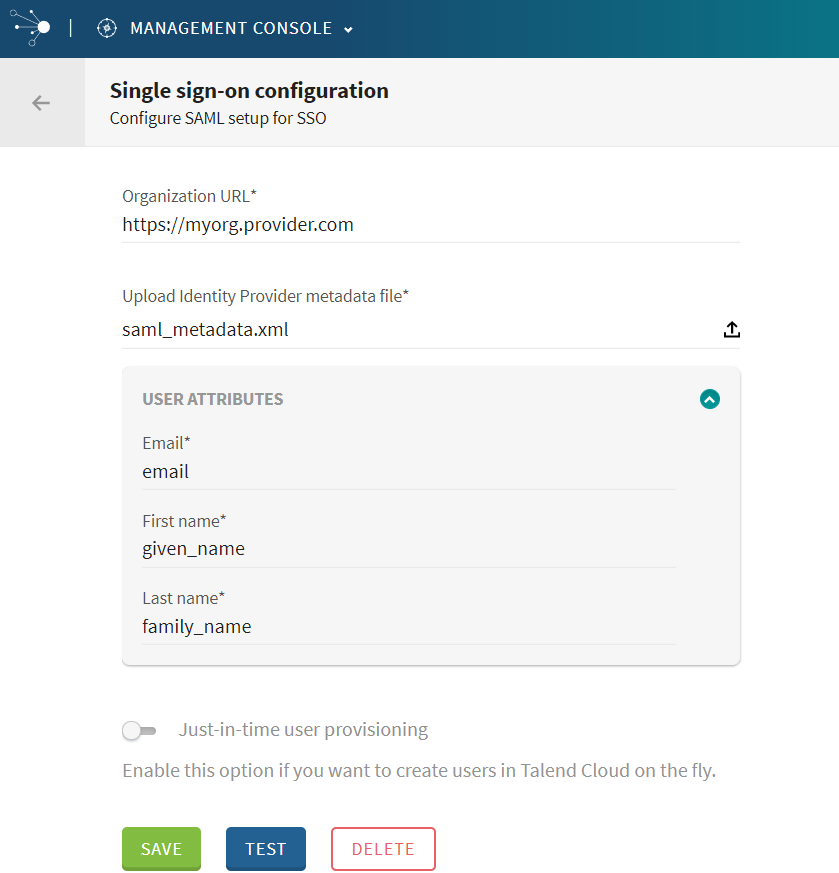
Configure SSO on your Talend Cloud platform after setting up an application on your SSO provider side.

### Prerequisites

* You must have the Security Administrator role in Talend Cloud Management Console.
* You must have the **metadata file** obtained from the SSO provider.

### Procedure

1. Log in to Talend Cloud Management Console.
2. On the top of the **Users** page, click Login Configuration.
3. Click Configuration.
4. Enter the SSO provider domain name in the Organization URL field.
5. Upload the metadata file you downloaded from the SSO application configuration by clicking the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\37EE1C08.tmp icon.
6. Check the default User attributes. If needed, edit them to match the application configuration specified on the SSO provider side.
7. These attributes are propagated to the SAML token used to authenticate users. The application configuration on the SSO provider side must specify these attributes as well as a TalendCloudDomainName attribute that indicates your Talend Cloud account name.



1. Click Test to check your configuration.
2. **Note:** The test checks that the provided URL and metadata file are valid. It does not guarantee that logging in through this SSO configuration will work.
3. **Optional:**Toggle the Just-in-time user provisioning option ON to automatically create users in Talend Cloud Management Console when logging in to a Talend Cloud application via the identity provider.
4. Select the default roles to be assigned to every automatically created user.
5. **Note:** Make sure that the selected set of default roles poses no security risk for your platform.
6. Click Save and Activate.

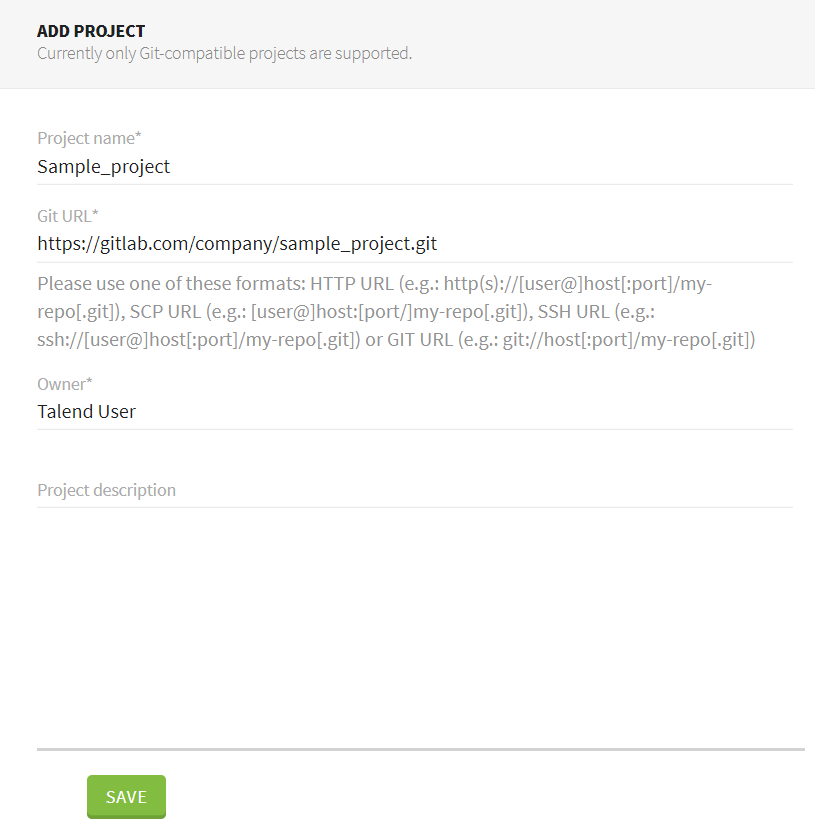
# Creating projects

Use Talend Cloud Management Console to create projects where the users can collaborate.

### Procedure

1. Open the **PROJECTS** page.
2. Click **ADD PROJECT**.
3. Enter the project name, Git repository URL, and description.

**Note:** To allow access to the project in Talend Studio when using Git on premises, the repository URL must end with .git extension.



1. Click **SAVE**.

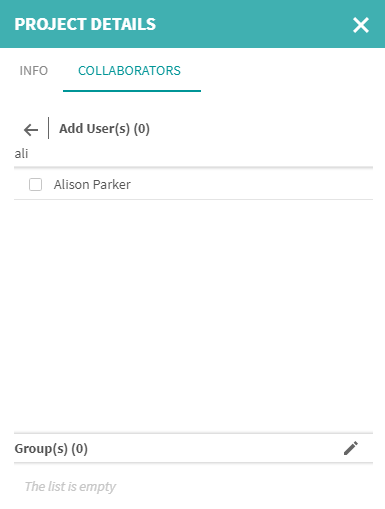
## Assigning users to projects

Projects are only visible in Talend Studio if you assign users to them in Talend Cloud Management Console.

### Procedure

1. On the **PROJECTS** page, click the name of the project.
2. Switch to the **COLLABORATORS** tab.
3. To assign individual users to project, click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\D05DB1BE.tmp icon next to **Users(s)**.
4. Select the user(s) from the list.

If the list of users is too long, start typing the user name in the search field.



1. To assign user groups to project, click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\7DCEBEA.tmp icon next to **Group(s)**.

If the list of user groups is too long, start typing the group name in the search field.

Users assigned to the project can access the remote project from Talend Studio.

## Editing projects

On the **INFO** tab of a particular project you can modify the Git project URL, the owner, and the description of the project.

### Procedure

1. Open the **PROJECTS** page.
2. Click on the name of the project you want to modify.
3. Open the **INFO** tab.
4. Edit the Git project URL.

After editing the URL, you must restart Talend Studio for the change to take effect in both applications.

1. To change the owner of the project, simply edit the text in the **Owner** field.
2. To modify the description of the project, simply edit the text in the **Project description** field.
3. Click **SAVE**.
4. If you have changed the Git URL, click **SAVE** in the pop-up window.

# Environments

# Creating environments

An environment is a self-contained space with the required resources (connections, engines, and so on) that allow the execution of tasks in isolation, with no impacts on other environments.

### About this task

You can navigate between environments by clicking the environment name at the top of the following pages:

* **OPERATIONS**
* **MANAGEMENT**
* **ENGINES**

The first time you log in to Talend Cloud Management Console only the **default** environment is available.

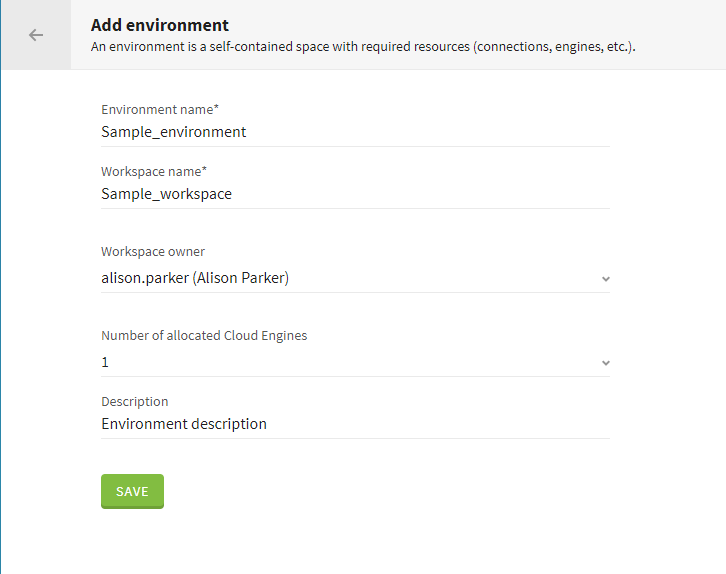
### Procedure

1. Go to the **ENVIRONMENTS** page.

You can see all the existing environments for this account. Each environment contains a number of workspaces and a list of engines and engine clusters.

1. Click **ADD ENVIRONMENT**.
2. Enter the name of the environment and workspace.
3. If you want another user to be the workspace owner, select their username from the drop-down list.
4. Enter or select the number of cloud engines you want to allocate to this environment.
5. **Optional:**Enter the description of the environment.
6. Click **SAVE**.

## Example



## Results

The environment is created with the workspace you specified.

To add other workspaces to this new environment, click the environment name then **ADD WORKSPACE**.

You must assign remote engines to the new environments in the **ENGINES** tab.

# Assigning cloud engines to environments

Assign cloud engines to environments proportionally to the number of concurrent task executions you plan to run. Three different tasks can be run in parallel on a cloud engine.

### Before you begin

* Environments have been created.

### About this task

Unassigned cloud engines can be used by all environments. If there is not an allocated number of cloud engines per environment, you may not be able to run certain tasks, because other tasks keep all the cloud engines occupied.

The **default** environment can use only unassigned cloud engines.

The Cloud Engine for Pipelines is available only in the **default** environment.

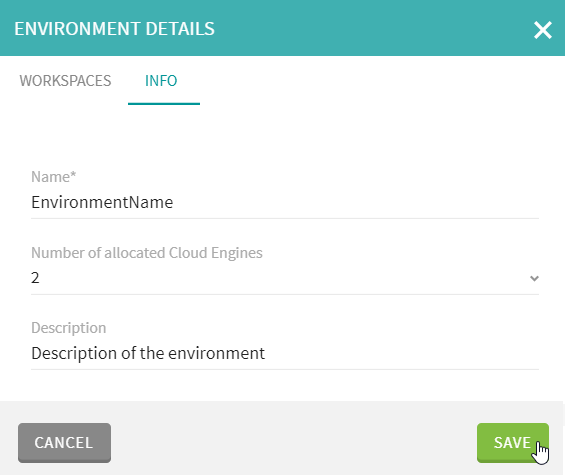
### Procedure

1. On the **ENVIRONMENTS** page, click the name of the environment to which you want to allocate cloud engines.
2. Open the **INFO** tab.
3. Enter or select the number of cloud engines to allocate in the **Number of allocated cloud engines** field.

The total number of cloud engines available depends on your subscription. You can see the number of allocated/available cloud engines in the **INFO** tab of the **default** environment.

1. Click **SAVE**.

## Example



## Results

You are now ready to execute tasks on your environments within the limits you have set.

# Assigning remote engines and clusters to environments

Remote engines/remote engine clusters belong to a single environment. As you progress in your workflow, you need to assign them to the environment on which to run local executions.

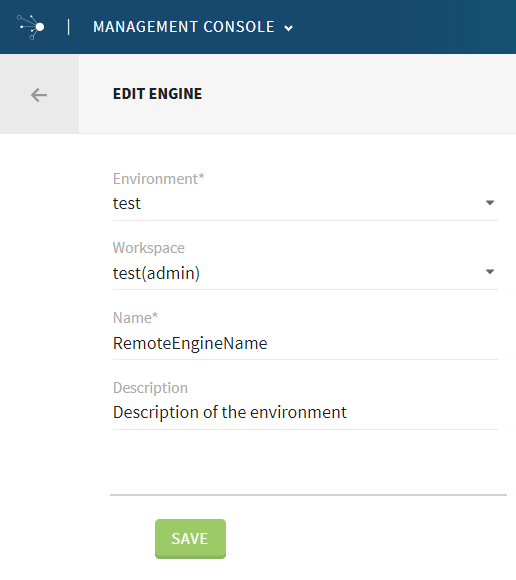
### Before you begin

* You have created a remote engine or a remote engine cluster.

### Procedure

1. On the **ENGINES** page click the name of the source environment.
2. However over the name of the Remote Engine to assign and click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\2262E4B2.tmp icon.
3. On the **Edit engine** tab, select the new (target) environment and workspace.
4. Click **SAVE**.

## Example



## Results

The Remote Engine/Remote Engine Cluster is available for executions launched from the new environment only.

# Workspaces

## Creating workspaces

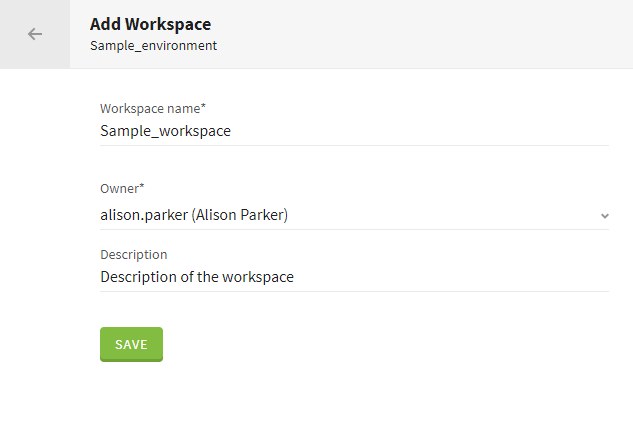
Workspaces enable selected users to work together. For example, you can create workspaces for departments in your organization to share Tasks, Connections, or Resources. **Admin will create one workspace for each projects in respective environment manually. The name of workspaces must match with name of corresponding projects. Access to workspace defines access for a user to environments**

### About this task

Each account has a native **Personal** and **Shared** workspace. You can create **Custom** workspaces and share them with other users.

### Procedure

1. Go to the **Environments** page.
2. Select the environment in which you want to create the workspace.
3. Click **Add workspace**.
4. Enter the workspace name.
5. Select the workspace owner from the drop-down list.
6. **Optional:**Enter the workspace description.
7. Click **Save**.

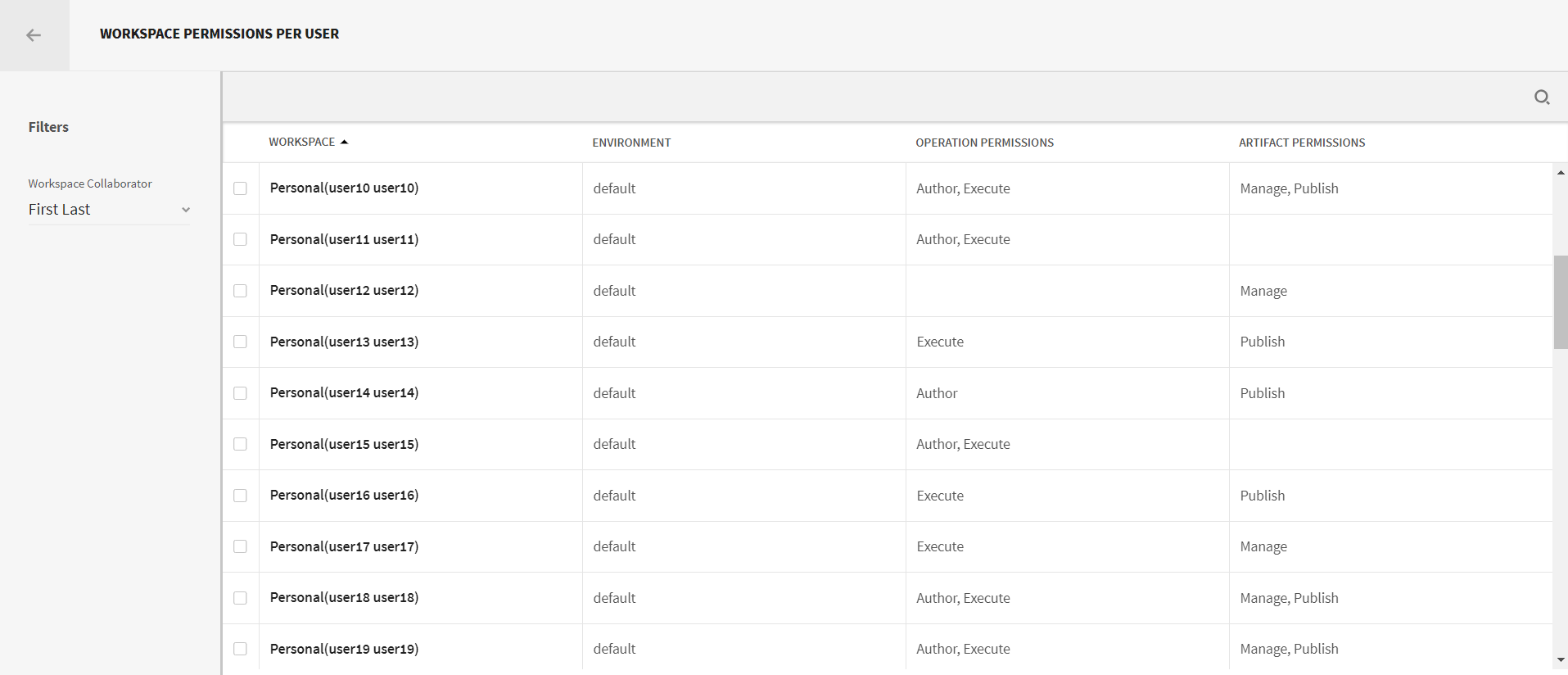


## Setting workspace permissions for users

Give users permissions to manage workspaces.

### Procedure

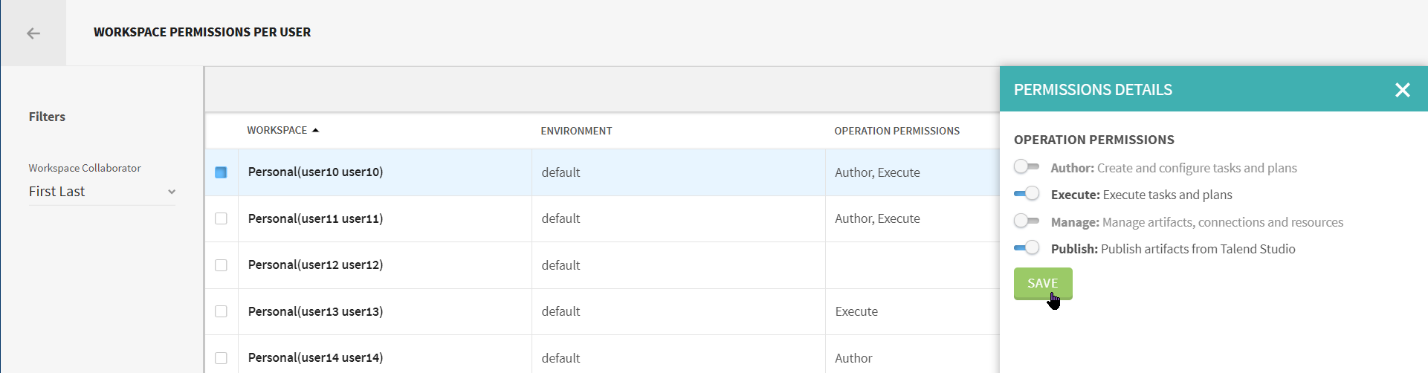
1. Access the **Environments** page and click **Workspace Permissions**.



1. Select the user you want to assign workspace permissions to from the **Workspace Collaborator** drop-down list.
2. Click the name of the workspace you want to modify.

You can select multiple workspaces at the same time.

1. In the **Permission Details** tab, toggle the operation permissions on or off, depending on your requirements.
2. Click **Save**.

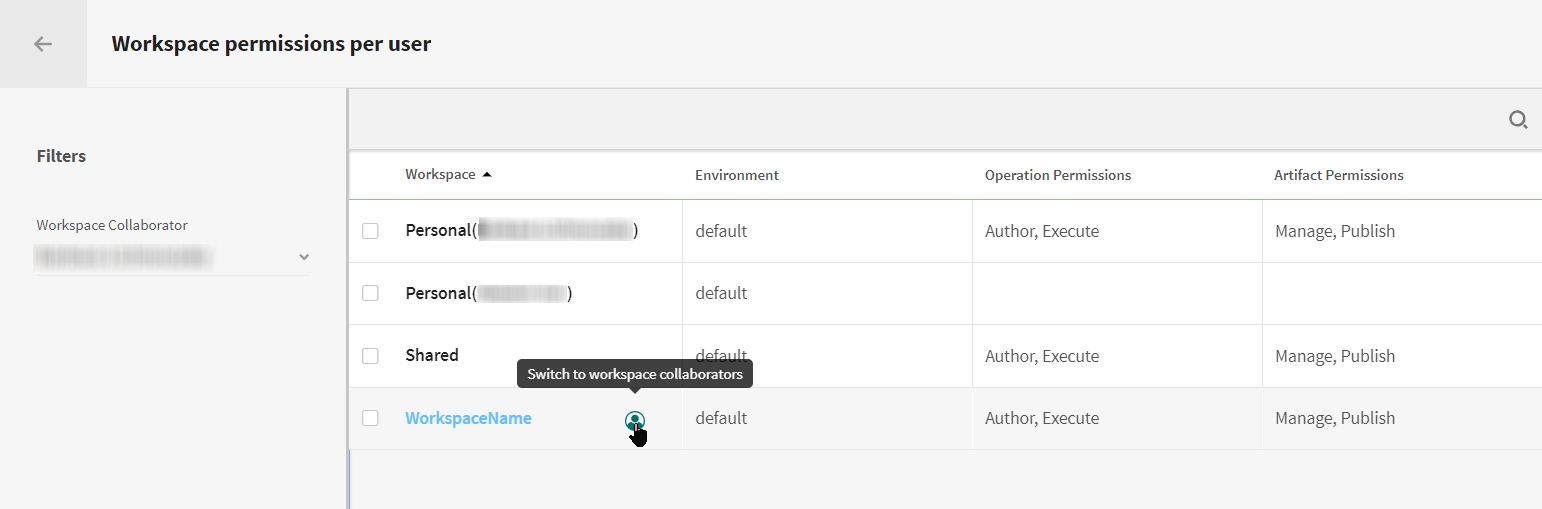


## Setting user permissions for workspaces

Share a workspace between users.

### Procedure

1. Access the **Environments** page.
2. Select a user with access to the appropriate workspace from the **Workspace Collaborator** drop-down list.
3. Hover over the workspace you want to modify and click the **Switch to workspace collaborators** icon.

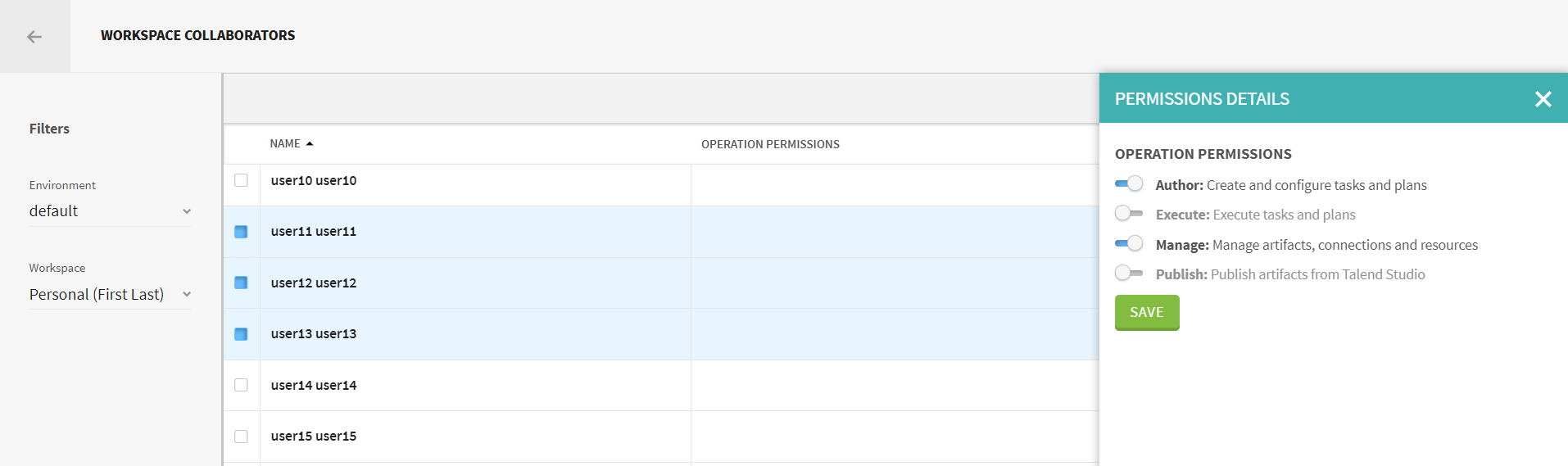


The **Workspace Collaborators** view opens filtered to the previously selected environment and workspace. All the users in the account are listed on the right.

1. Click the name of the user whose permissions you want to modify.

You can select multiple users at the same time.

1. In the **PERMISSION DETAILS** tab, toggle the operation permissions on or off, depending on your requirements.



1. Click **SAVE**.

**The permission to workspace is assigned to users based on the role played.**

|  |  |  |  |
| --- | --- | --- | --- |
| **User Roles** | **Workspace Permissions** | **Description (Permissions only for INTG)** | **Environment** |
| Admin | Author, Execute and Manage | Permissions to all workspaces in all environments | All |
| Developer | Author, Execute, Manage and Publish (via studio) | Permission to workspaces that are related to projects that developer have access. | INTG |
| ETL\_Manger /Operator | Author, Execute and Manage | Permissions to all workspaces in all environments | All |
| Tester | Author and Execute | Permissions to all workspaces in QE | QE |
| Publisher | Manage and Publish (CICD) | Permissions to all workspaces in all environments | All |

**Publisher must have access to workspace in all environments to promote the artifacts, create task and test the tasks. No other user will have publish access except Publisher who will implement CICD.**

## Moving tasks to another workspace

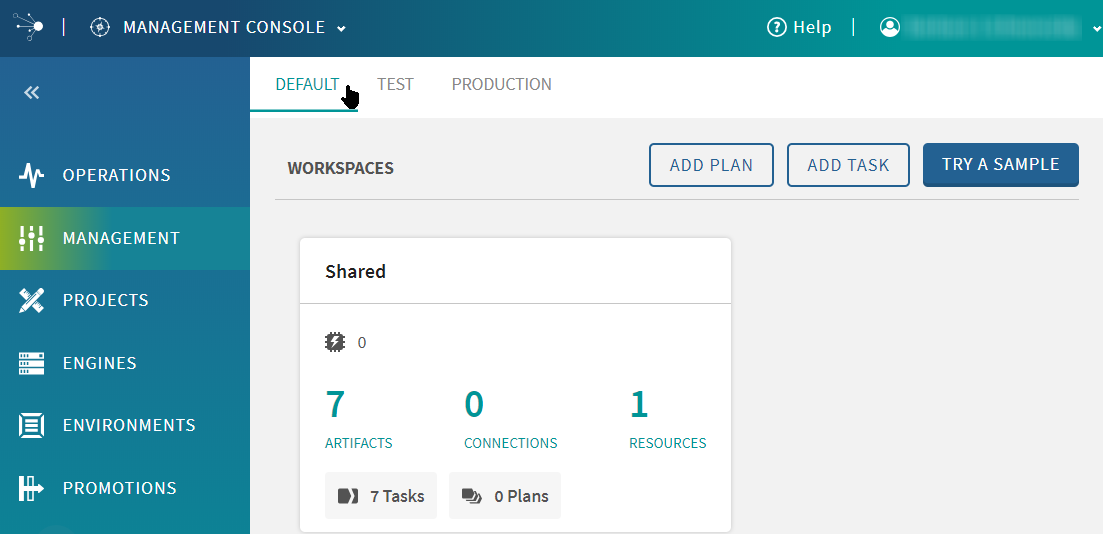
You can move a specific task to another workspace in the same environment from the Task Details page.

### Before you begin

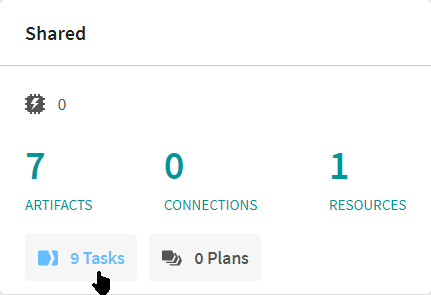
You must have Author permission for the workspaces where the task is located and where you want to move it.

### Procedure

1. Go to **MANAGEMENT**.
2. Select the correct environment from the top menu.

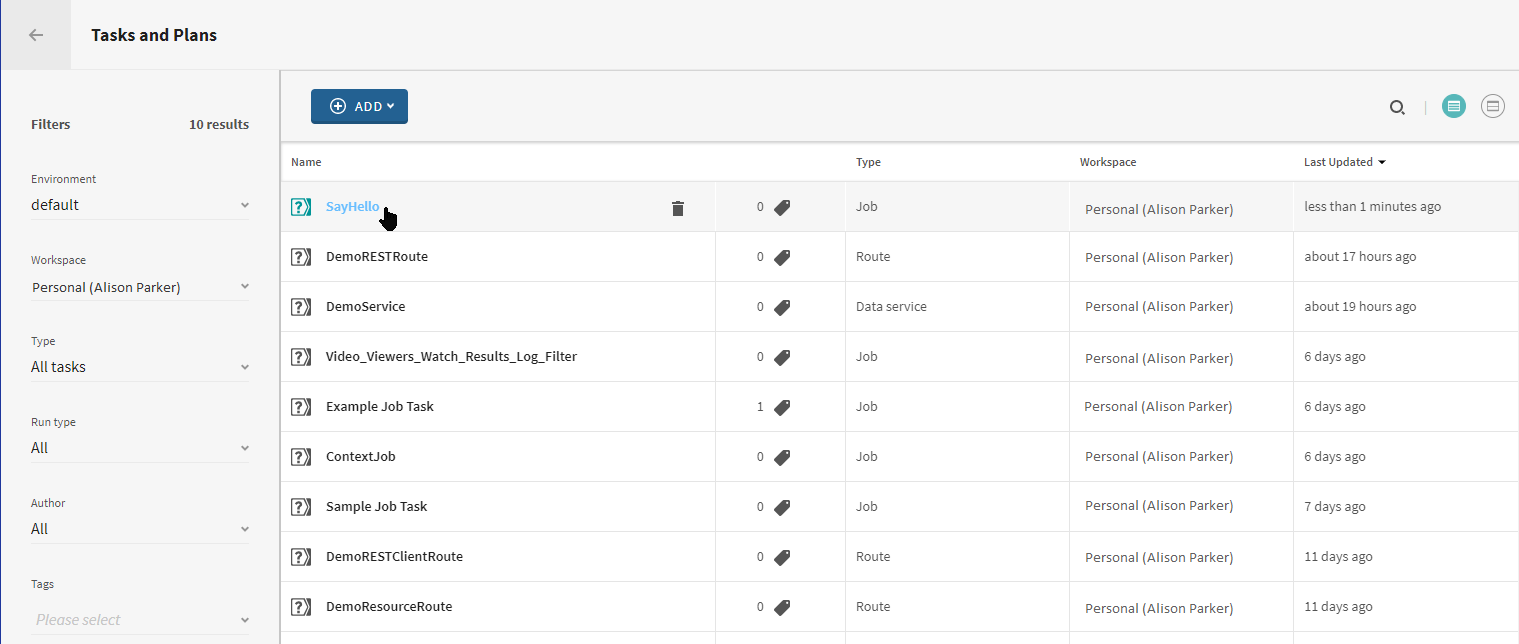


1. Click **Tasks** in the appropriate workspace.

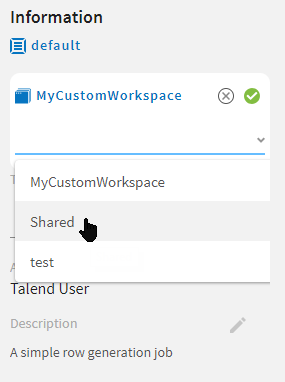


1. Select the task to edit from the list.

You can use the filters on the left-hand side of the page to limit the results.



1. On the Task Details page, hover over the workspace name in the **Information** panel.
2. Click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\C44E531E.tmp icon.
3. Select the new workspace for the task.



1. Click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FB25F34A.tmp icon to save your change.

## Deleting workspaces

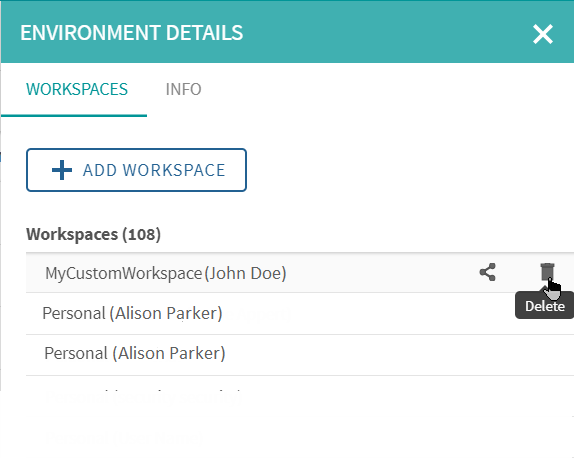
Deleting a workspace removes all of its contents from Talend Cloud Management Console.

### About this task

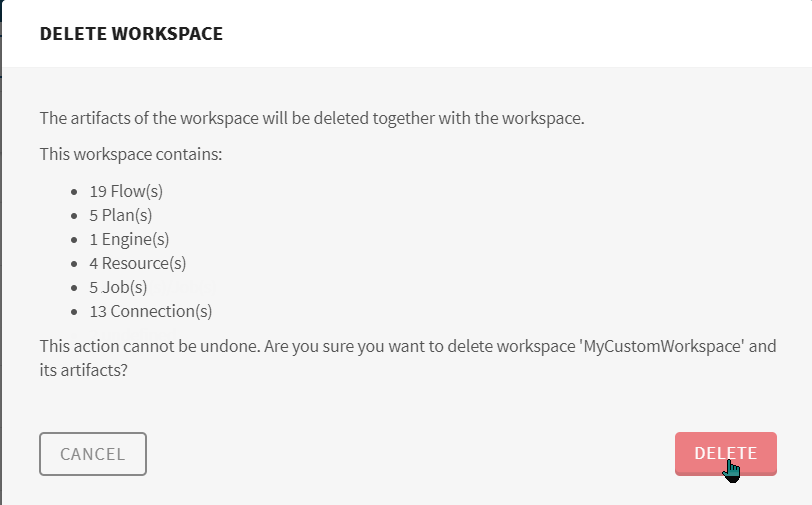
If you only wish to move the workspace to another environment, you must promote it. For promotion instructions, see [Managing promotions](https://help.talend.com/reader/6SB6Qfc014RWM4mEltupHA/KsAq_ce9J_RY1Fh~tLU1fA).

### Procedure

1. Go to the **Environments** page.
2. Select the environment of the workspace you want to delete.
3. In the **Environment Details** tab, click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\4DC599E8.tmp icon next to workspace.



1. Confirm that you want to delete the workspace and all of its contents.



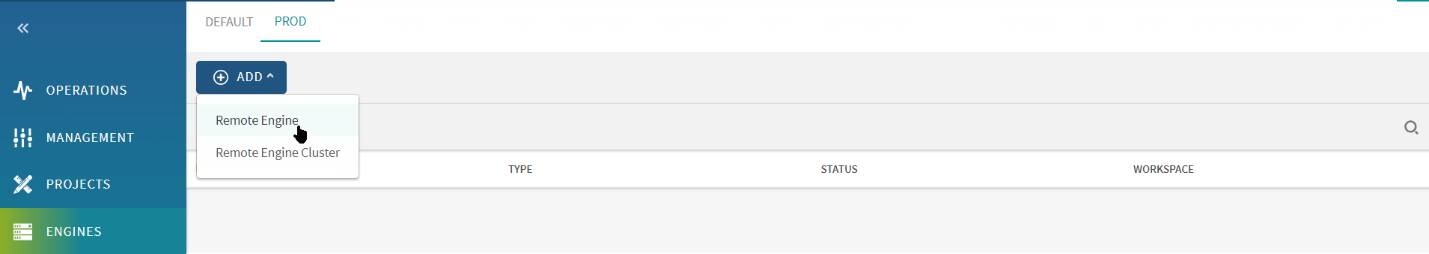
# Remote Engine

## Creating Remote Engines

You must have Infrastructure Administrator role in Talend Cloud Management Console.

## Procedure

1. Open Talend Cloud Management Console.
2. Go to the ENGINES page.
3. Click ADD and select Remote Engine from the drop-down list.



1. Select the environment in which to create the engine.
2. The current environment is selected by default.
3. Don’t select the workspace.
4. Enter a name and description.
5. Click SAVE.

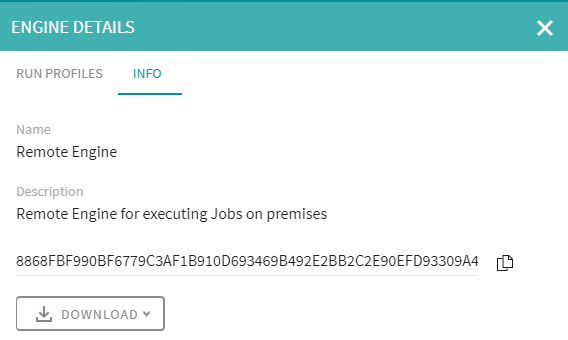
This creates a Remote Engine with ‘Not Paired’ status.

## Downloading Talend Remote Engines

The installer of Remote Engine can be downloaded in 2 ways. With Method1 you don’t have to configure pairing Remote Engine as its downloaded with preauthorized key. Since Ansible script is used to host Remote Engine, Method 2 is used to download the Remote Engine. So that the installer can be reused for any Remote Engine.

## Method 1

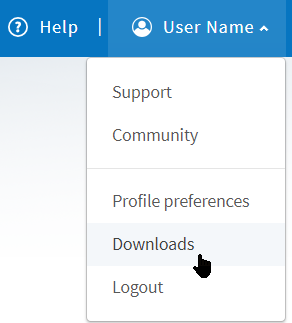
1. Access the Engines page.
2. Click the name of the new Remote Engine to open the ENGINE DETAILS tab. You can find the pre-authorized key to use during the pairing stage on the INFO page.



1. Click ‘DOWNLOAD’ button.

## Method 2

1. Log in to the [Talend Cloud portal](https://cloud.talend.com/).
2. Select **Downloads** from the user menu in the top right corner of the welcome page.



1. Download the latest version of the Talend Remote Engine executable file for automatic installation, or the archive file for manual installation.
2. You will need an authorized key to pair the Remote Engine with your Talend Cloud account during the installation procedure. When you create the Remote Engine, the authorized key is generated automatically.
3. The number of Remote Engines you can create in your account depends on your license (available engine tokens).

## Installing Talend Remote Engines

Ensure that you have set the JAVA\_HOME environment variable in instance where you install Remote Engine.

1. Extract the archive file to a directory of your choice (<RemoteEngineInstallationDirectory>).
2. Edit the <RemoteEngineInstallationDirectory>/etc/org.talend.ipaas.rt.pairing.client.cfg file.
3. Set the **pairing.service.url** parameter according to the region of your Talend Cloud account:

**USA**

pairing.service.url=https://pair.us.cloud.talend.com

**Europe**

pairing.service.url=https://pair.eu.cloud.talend.com

**Asia-Pacific**

pairing.service.url=https://pair.ap.cloud.talend.com

1. The region is reflected in your Talend Cloud URL. For example, if your URL is [https://us.cloud.talend.com](http://us.cloud.talend.com/), you must enter the corresponding **USA** value.
2. Pair the Remote Engine with Talend Cloud Management Console.

## Pairing Talend Remote Engines

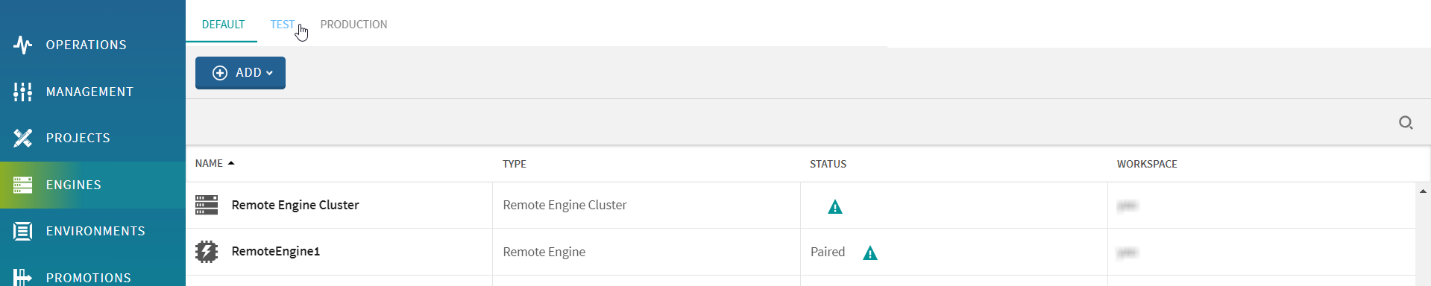
Pair a Remote Engine by configuring the Remote Engine settings on your local machine.

## Prerequisites

* You have installed the Remote Engine.
* You have created a Remote Engine in Talend Cloud Management Console.

## Procedure

1. Open Talend Cloud Management Console.
2. Go to the **ENGINES** page.
3. Select the correct environment from the top menu.



1. Open the Remote Engine you want to pair.
2. Click **INFO**.
3. Copy the preauthorized key.
4. If started, stop the Remote Engine by executing the stop file in the <RemoteEngineInstallationDirectory>/bin folder. Or stop the survive by command *‘systemctl stop Talend-Remot-Engine.service’.*
5. Open <RemoteEngineInstallationDirectory>/etc/preauthorized.key.cfg.
6. Edit the parameters.

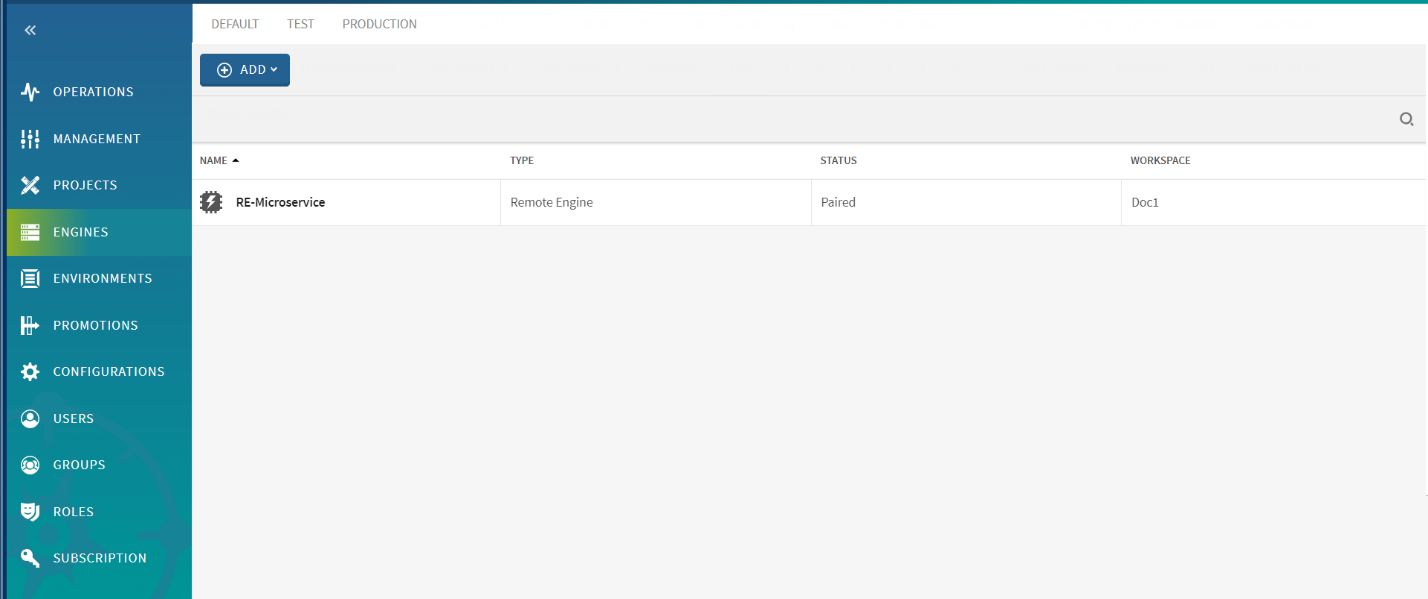
**remote.engine.pre.authorized.key =** Paste the preauthorized key.

**remote.engine.name =** Enter the name of the Remote Engine.

**remote.engine.description =** Enter the description of the Remote Engine.

1. Save the file.
2. Start the Remote Engine service with command *‘systemctl stop Talend-Remot-Engine.service’.*

Your Remote Engine has been paired with your account and the status moved to **Paired** on Talend Cloud Management Console.



Run Tasks with the Remote Engine as execution runtime. Ensure you have the **Execute** right on the workspace where the engine is located.

## Pairing Remote Engine with webservice

Run below curl command to pair the Remote Engine. Remote Engine preauthorized key must be copied from Talend cloud for API call.

Note: Replace ‘XXXXX…..’ with preauthorized key from Talend cloud.

curl -X POST \

  http://localhost:8043/configuration \

  -H 'Accept: \*/\*' \

  -H 'Accept-Encoding: gzip, deflate' \

  -H 'Cache-Control: no-cache' \

  -H 'Connection: keep-alive' \

  -H 'Content-Length: 201' \

  -H 'Content-Type: application/x-www-form-urlencoded' \

  -H 'Host: localhost:8043' \

  -H 'cache-control: no-cache' \

  -d 'pairingServiceUrlSelect=https%3A%2F%2Fpair.us.cloud.talend.com&pairingServiceUrl=https%3A%2F%2Fpair.us.cloud.talend.com&preAuthorizedKey=XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX'

To re-pair Remote Engine with same pre-authorized key:

* + 1. Delete the value for ‘remote.engine.id’ in <RemoteEngineInstallationDirectory>/etc/org.talend.ipaas.rt.pairing.agent.cfg



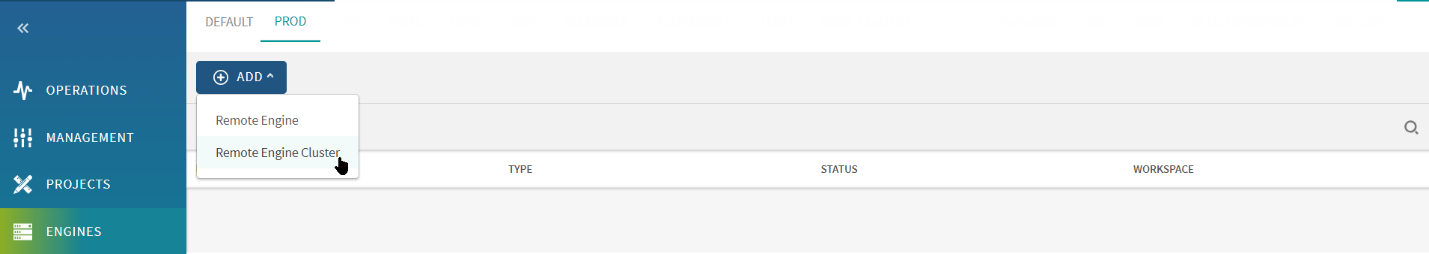
* + 1. Pair the remote engine with the above API curl command with pre authorized key.

# Remote Engine Cluster

## Creating Talend Remote Engine Clusters

You must have Infrastructure Administrator role in Talend Cloud Management Console.

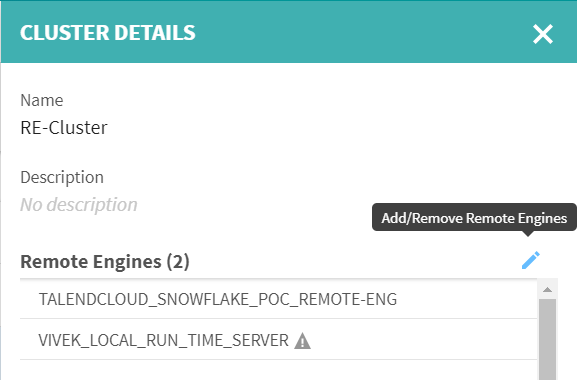
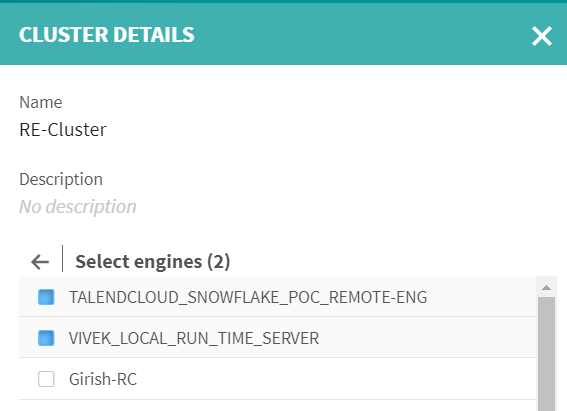
1. Open Talend Cloud Management Console.
2. Go to the **ENGINES** page.
3. Click **ADD** and select **Remote Engine Cluster** from the drop-down list.



1. Select the environment in which to create the cluster.
2. The current environment is selected by default.
3. Don’t select the workspace.
4. Enter a name and description.
5. Click **SAVE**.

## Assigning Remote Engines to Clusters

1. Go to the **ENGINES** page.
2. Click on the name of cluster you to which you want to add Remote Engines.
3. Click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\80BD28F8.tmp icon.

1. Select the Remote Engines to include in the cluster.
2. You can only select Remote Engine from the same environment your cluster is assigned to.
3. You can select Remote Engines from any workspace on that environment. However, if the workspaces are different, the selected Remote Engines will be placed into the cluster's workspace.

When choosing to run a Task on the cluster, it is executed on the first available Remote Engine, then the next and so on, while putting the ones the Task was executed on to the end of the list. If a Remote Engine is not available, the Task is executed on the next available one.

# Artifacts

Artifacts will be created by publishing jobs to Talend cloud. For INTG environment, jobs are published via studio and for all other environment, jobs are published via CICD. You can access the details of all your published artifacts from the **MANAGEMENT** page.

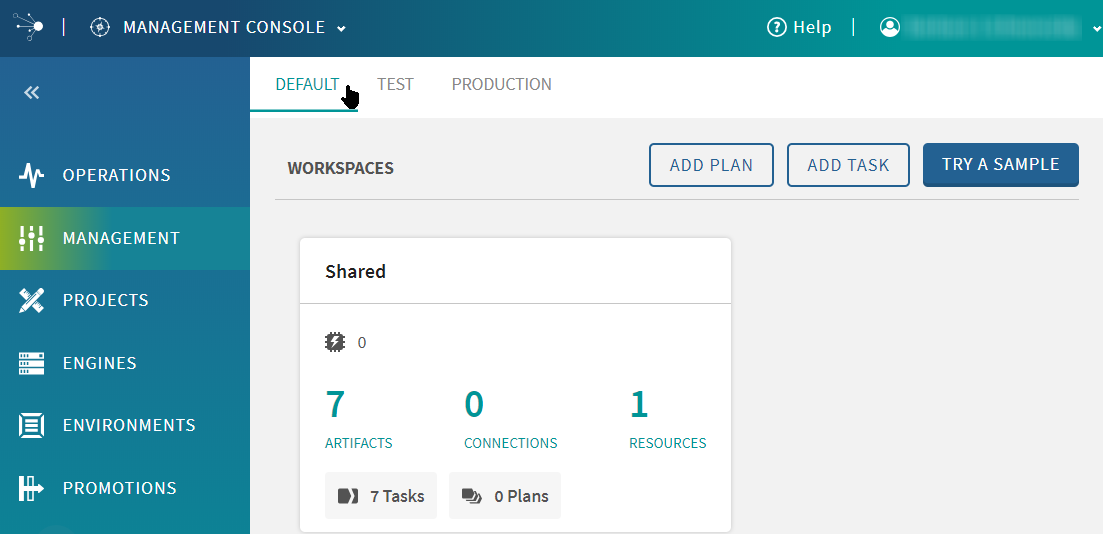
### Before you begin

You must have the appropriate permissions for the environment and workspace where the artifact is located.

### Procedure

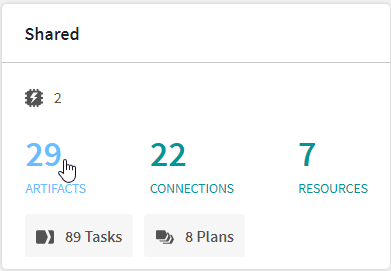
1. Go to **MANAGEMENT**.
2. Select the correct environment from the top menu.

## Example



1. Click **ARTIFACTS** in the appropriate workspace.

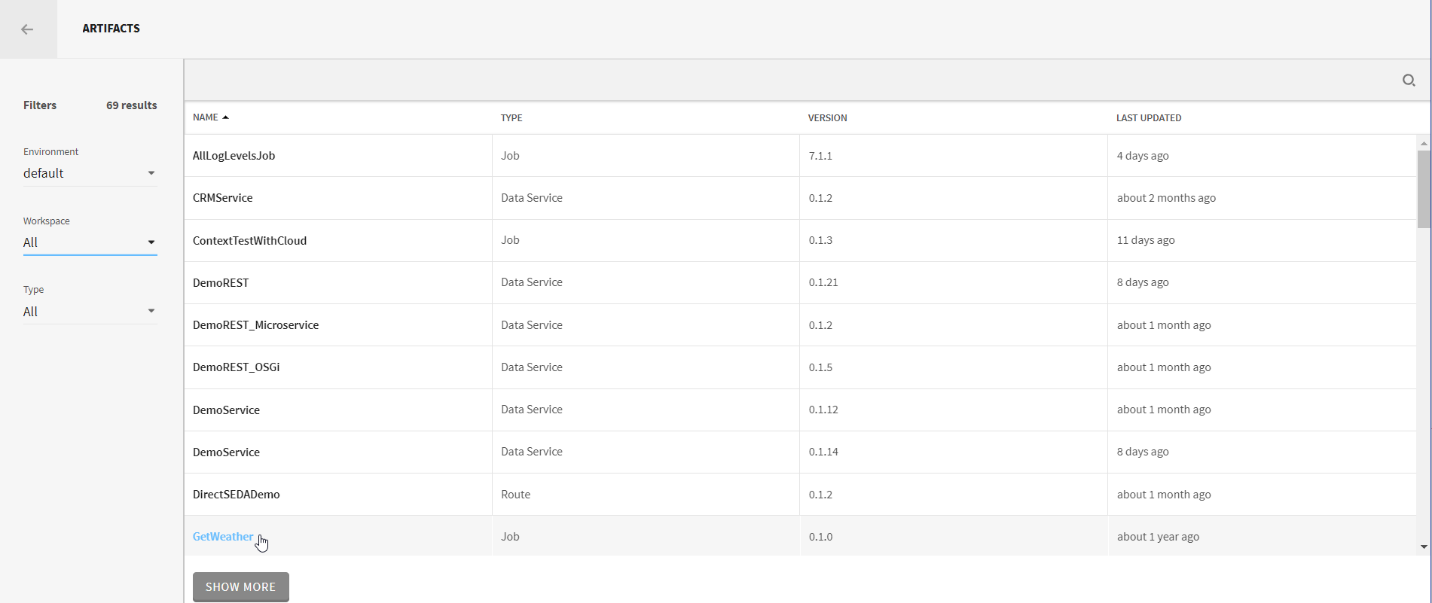
## Example



1. Select the artifact from the list.

You can use the filters on the left-hand side of the page to limit the results based on the environment, workspace, and artifact type.

## Example



## Results

The **Artifact Details** page opens to the latest version of the artifact.

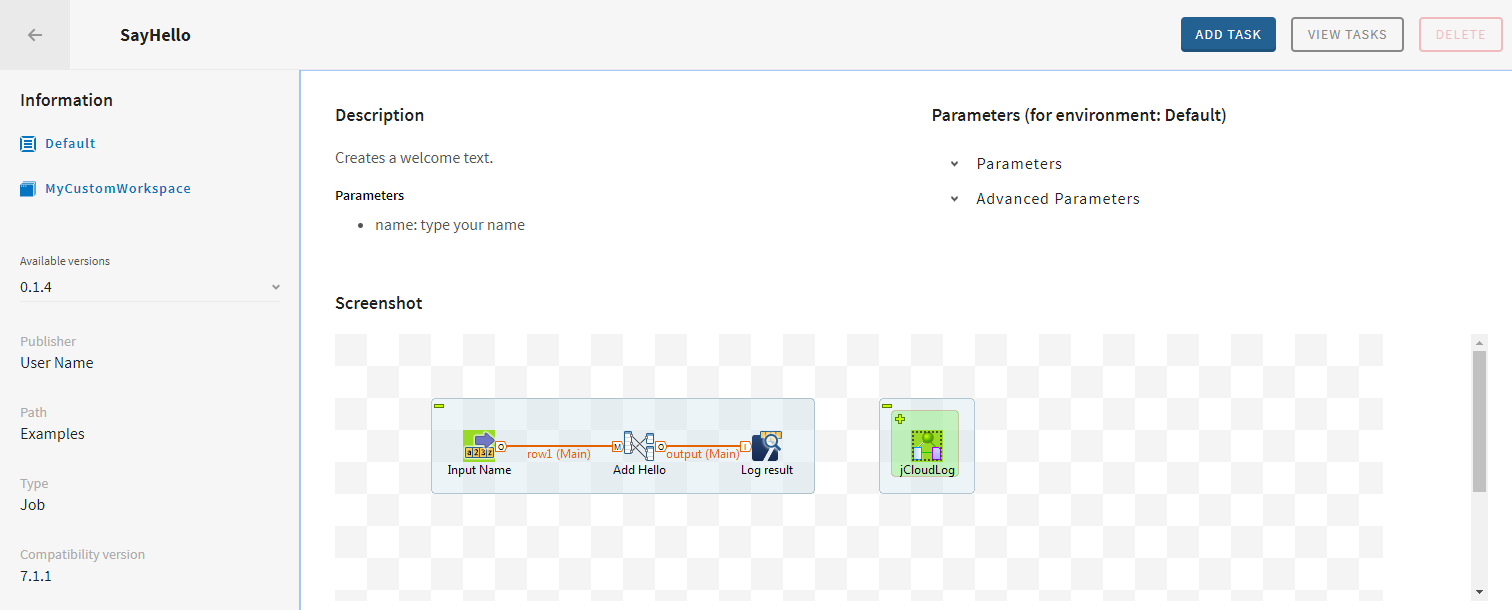
On this page, you can view the following information:

* Description and screenshot of the artifact
* Available versions of the artifact
* List of tasks that use any version of the artifact
* Configurable parameters of the artifact
* Type (Job, Route, Data Service, pipeline) of the artifact
* Service type (REST or SOAP) of Data Service artifacts
* Binary type (Microservice or Talend Runtime) of Route or Data Service artifacts
* Compatibility of the artifact with Studio versions
* Path to the artifact in the Studio folder structure

On this page, you can perform the following actions:

* Access the **Artifacts** page of the same environment or workspace by clicking their name in the **Information** panel
* Create a task based on any version of the artifact
* Delete the artifact (all verisons) if it is not used in any tasks

**Example**



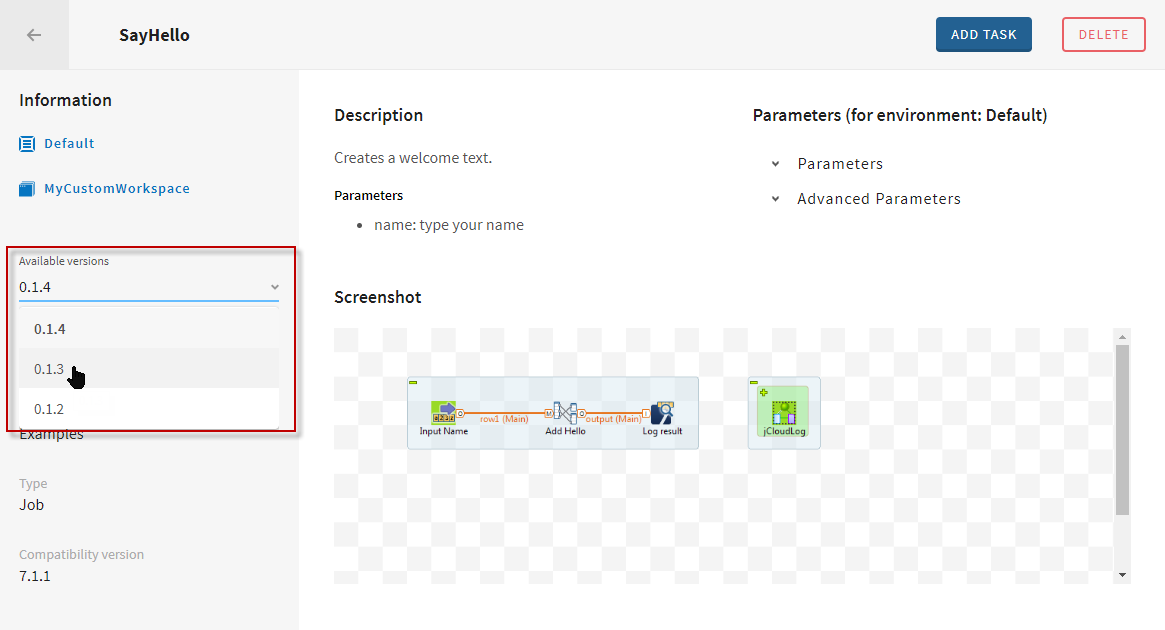
## Managing artifact versions

You can view the details of a specific version of each artifact on the Artifact Details page.

### Procedure

1. Go the Artifact Details page.
2. In the **Information** panel, expand the list of **Available versions**.
3. Select the version of the artifact you want to view or add to a task.

## Example



1. To create a task with the selected version of the artifact, click **ADD TASK** in the top right corner of the page.
2. To delete all versions of the artifact, click **DELETE**.

It is not possible to delete a specific version.

# Managing Jobs

Job tasks combine artifacts published from Talend Studio with a specific execution configuration, for example, context parameter values, connections, whether to use a cloud or a remote engine and so on. When you have built your Job tasks, you can schedule your operations using plans.

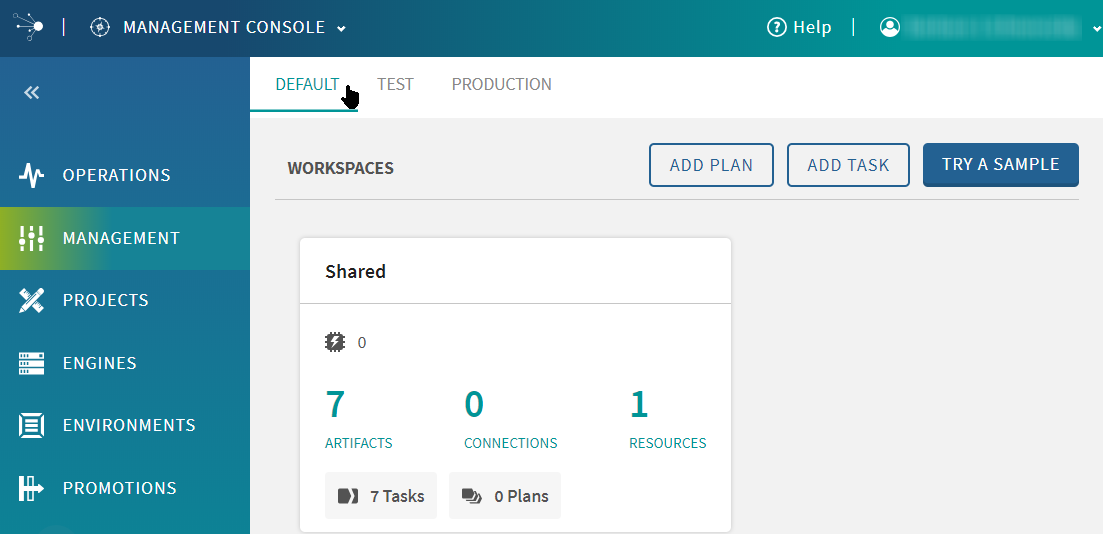
## Creating Job tasks

Job tasks are executable integration processes that contain a Job artifact published from Talend Studio.

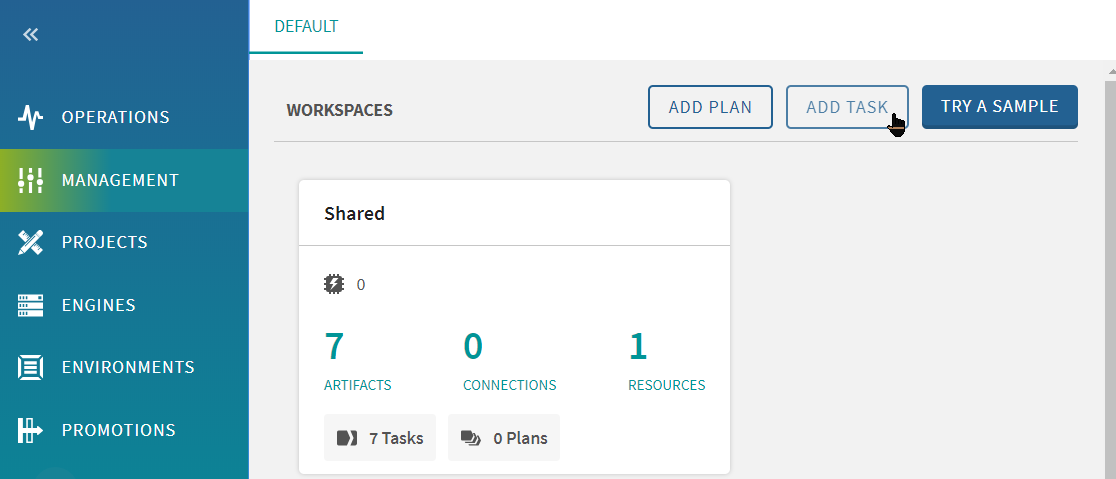
### Procedure

1. Go to **MANAGEMENT**.
2. Select the correct environment from the top menu.

## Example



1. Click **ADD TASK**.



1. Select the **Job** artifact type.
2. Select the artifact you want to execute from the drop-down list.

The details and description of the artifact appears.

1. Select the version of the artifact to be used in the task.

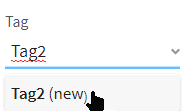
The details and description of the artifact are refreshed automatically.

1. Select the workspace for the task.
2. Give a name to the new task.

By default, the task name is the name of the artifact from which it is created.

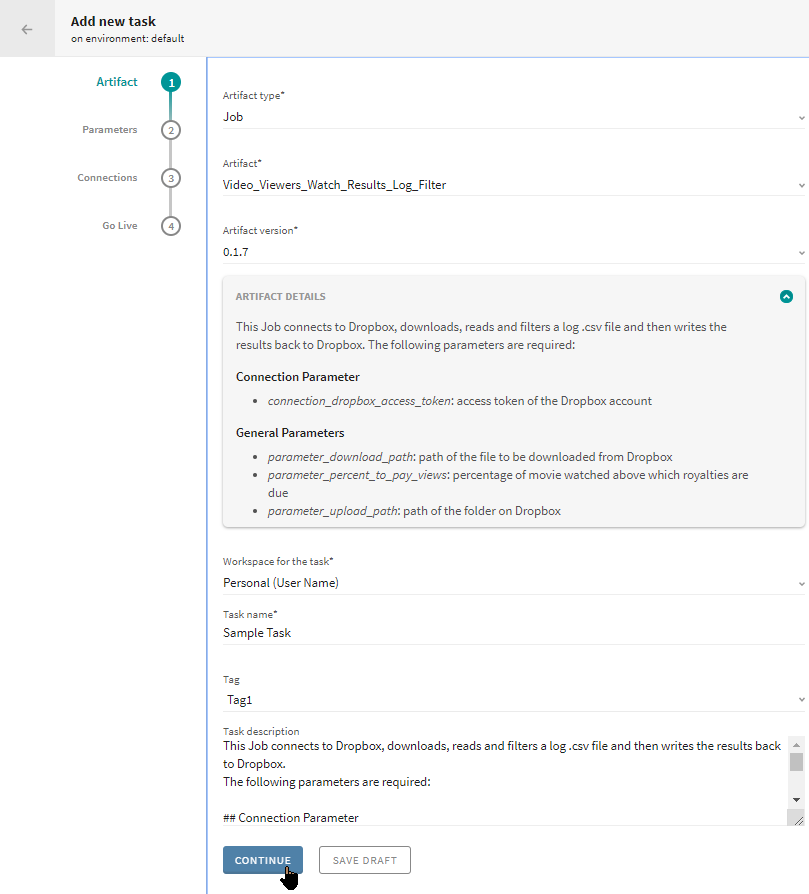
1. **Optional:**Add a tag to the task.
   1. Select an existing tag from the drop-down list.
   2. Create a new tag by typing in the name and clicking on it in the drop-down list.

## Example



1. Click **CONTINUE**.

## Example

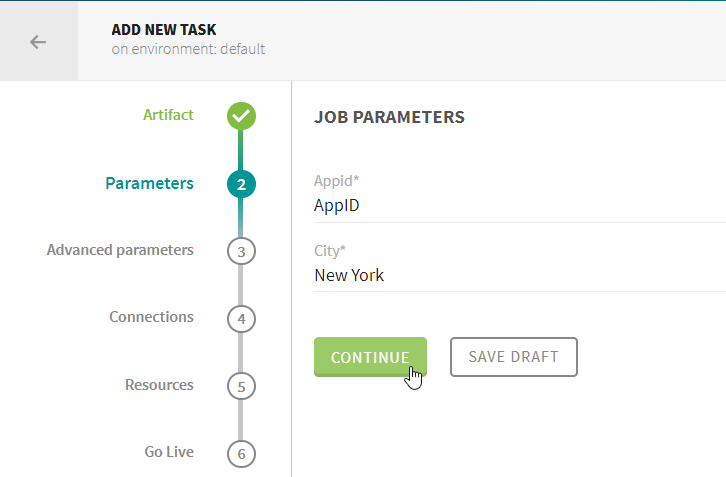


1. In the **Parameters** section, enter the value for the parameters of the Job.

In this step, you can only set the values to parameters you have defined with the **parameter\_** prefix in Studio.

**Note:** Use \\ instead of \ when the value could be interpreted as a special character, for example, \t.

## Example

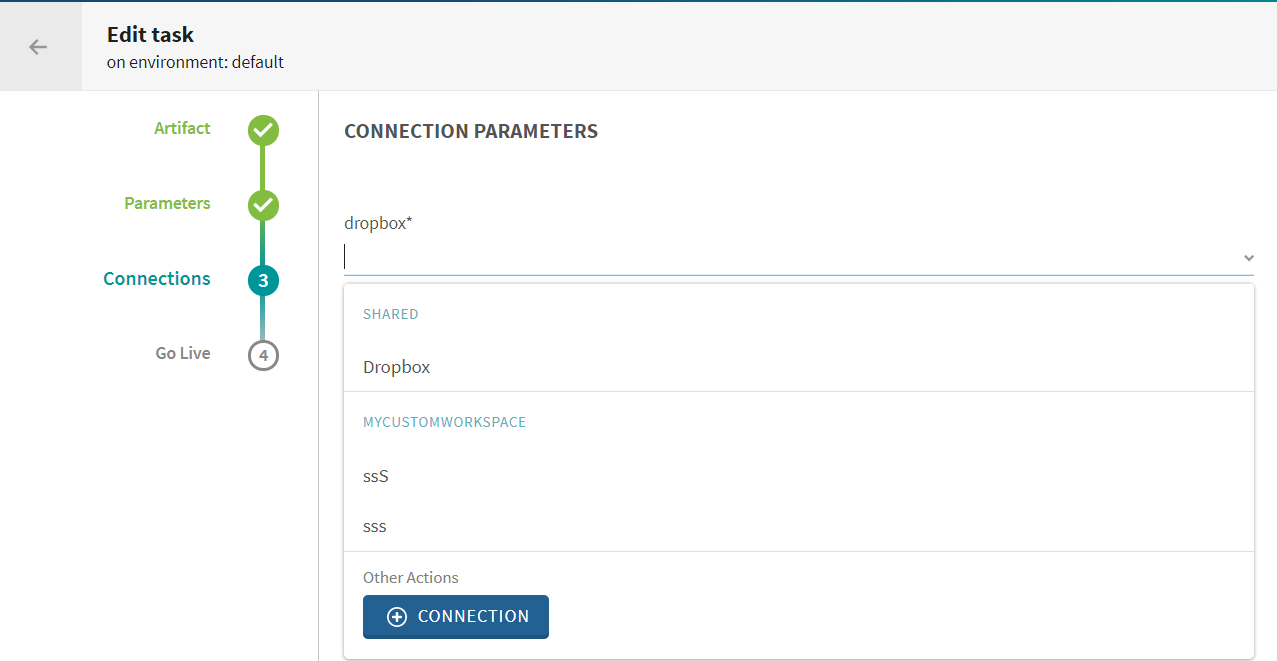


1. **Optional:**In the **Advanced parameters** section, enter the values for the parameters you have defined in Studio without prefixes, and **connection\_** parameters that are not defined in the Job.

**Note:** Use \\ instead of \ when the value could be interpreted as a special character, for example, \t.

1. **Optional:**In the **Connection** section, select the appropriate connection form the drop-down list or create a new connection based on the parameters already defined in the artifact.

## Example



1. **Optional:**In the **Resources** section, select the appropriate resource to use in the task.
2. In the **Go Live** section, select the engine on which to run your task from the **Runtime** drop-down list.
   1. Cloud

Three different tasks can be run in parallel on a cloud engine.

* 1. Cloud Exclusive

No other task will be executed on that cloud engine. Cloud Exclusive engines can only be used in environments that do not have cloud engines assigned to them, for example, **DEFAULT**.

* 1. a pre-configured remote engine

For more information on running tasks on remote engines, see the [Talend Remote Engine User Guide](https://help.talend.com/access/sources/content/map?pageid=re_ug&EnrichVersion=Cloud&afs:lang=en).

1. If you have selected a remote engine, you have the option to run your Job as another user by selecting the **Run as impersonated user** option.

For more information about user impersonation, see the [Talend Remote Engine User Guide](https://help.talend.com/access/sources/content/map?pageid=re_ug&EnrichVersion=Cloud&afs:lang=en).

1. Select the execution frequency from the **Run Type** drop-down list.

For instructions, see [Scheduling Job executions](https://help.talend.com/reader/6SB6Qfc014RWM4mEltupHA/p3PFWeuexYGFKEVmMUgjMQ).

1. Click **GO LIVE**.

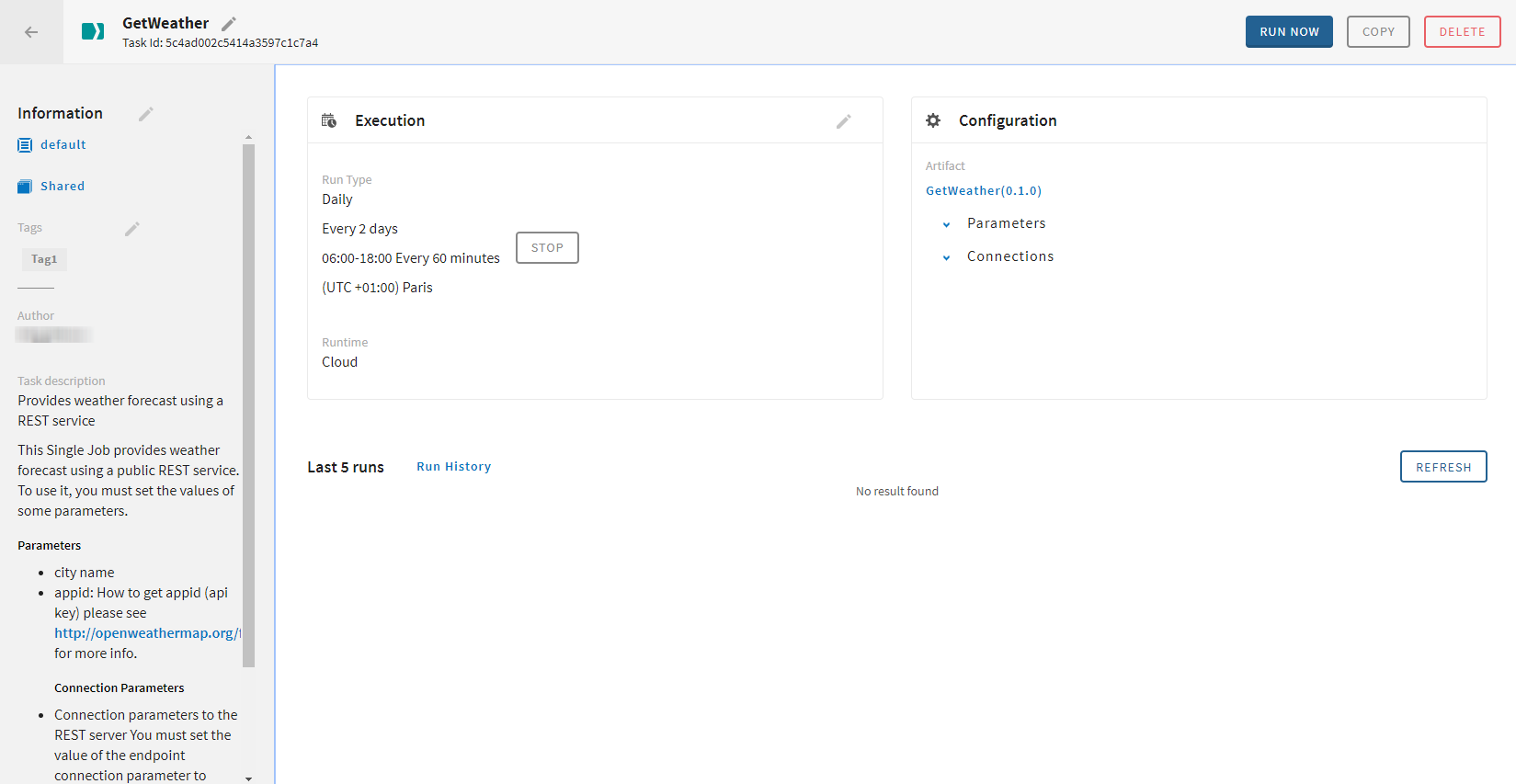
## Results

Your task is ready to run on Talend Cloud Management Console.

**Note:** If you try to execute a task that is already running, the execution fails. Talend Cloud Management Console retries the execution every 4 minutes. If the deployment fails for the fifth time, you will get the error message Exceeded the limit of deployment attempts: another instance of the same task was running on the engine at same time. Try to run the task later.

**Troubleshooting:** If the task execution schedule is too frequent, it may result in the parallel execution of the same task on two different Cloud Engines or Remote Engine Cluster. To avoid this issue, run your task in an environment with only a single Cloud Engine allocated to it or schedule the task on a Remote Engine.

## Example



# Executing Job tasks manually

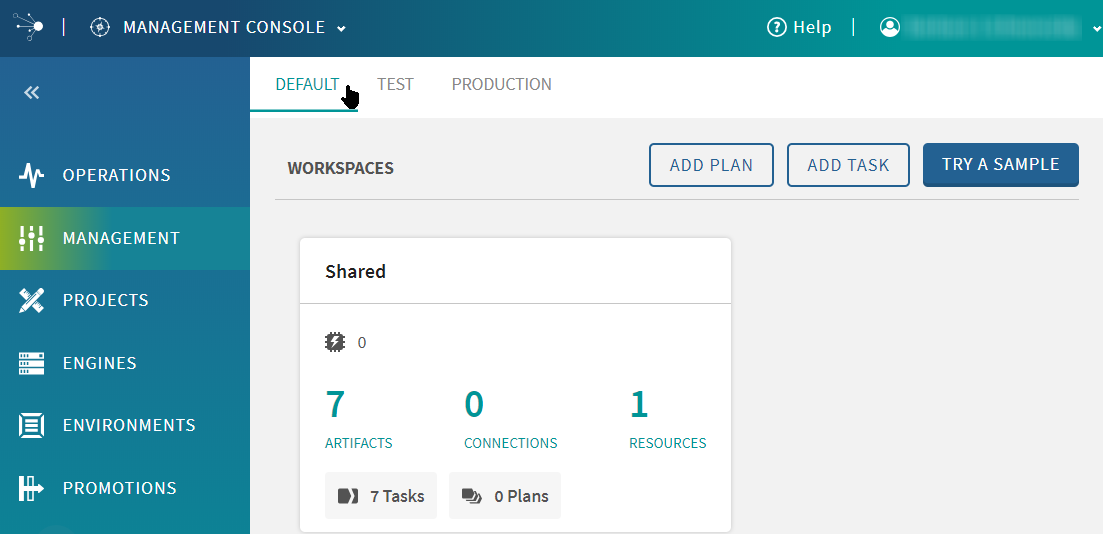
### Before you begin

You must have Author permission for the workspace where the task is located.

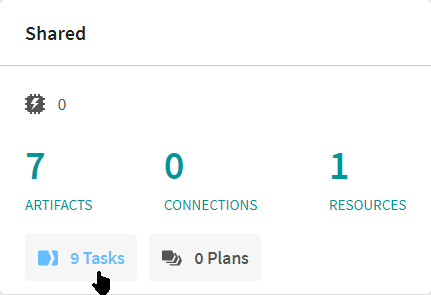
### Procedure

1. Go to **MANAGEMENT**.
2. Select the correct environment from the top menu.

## Example



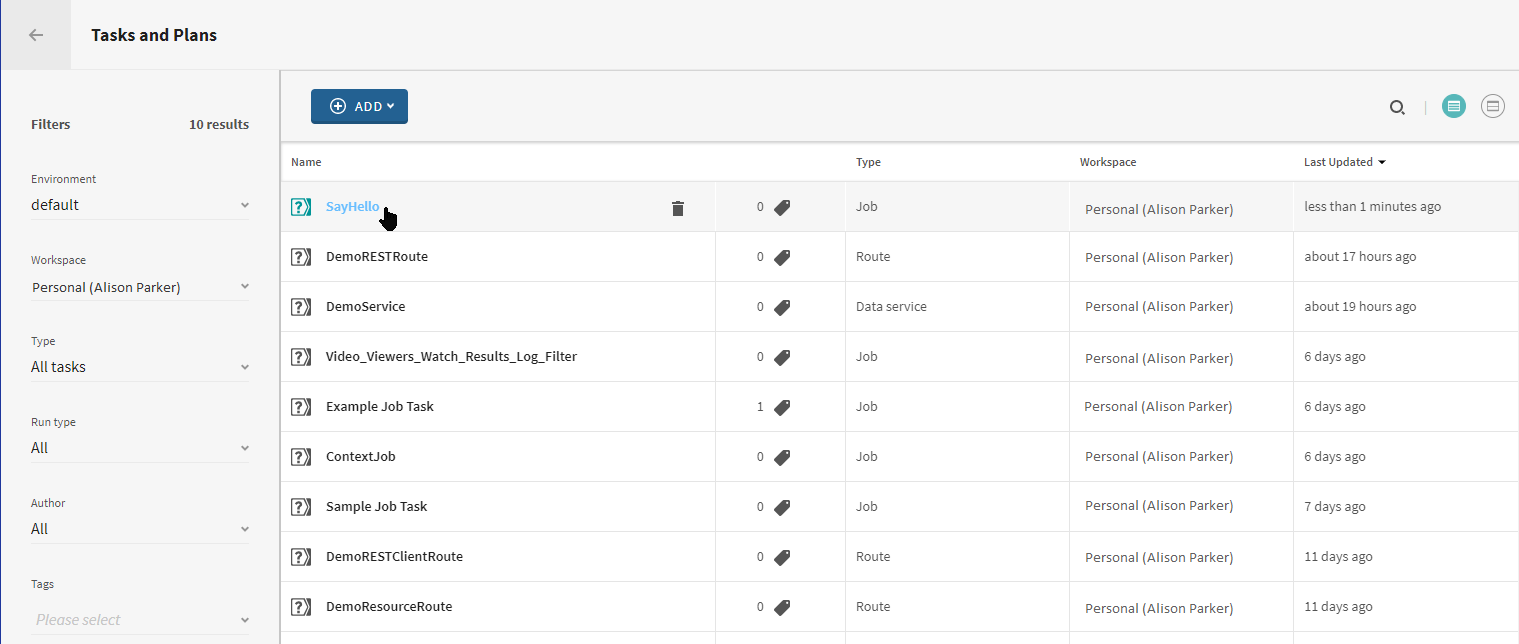
1. Click **Tasks** in the appropriate workspace.



1. Select the task to execute from the list.

You can use the filters on the left-hand side of the page to limit the results.

## Example



1. Once on the Task Details page, click **RUN NOW** to execute your task.

## Results

Your task execution has started. You can monitor its status on the task details or on the **OPERATIONS** page.

## Accessing and editing Job tasks

You can view and edit all your Job tasks in the workspaces you are assigned to from the **Task Details** page.

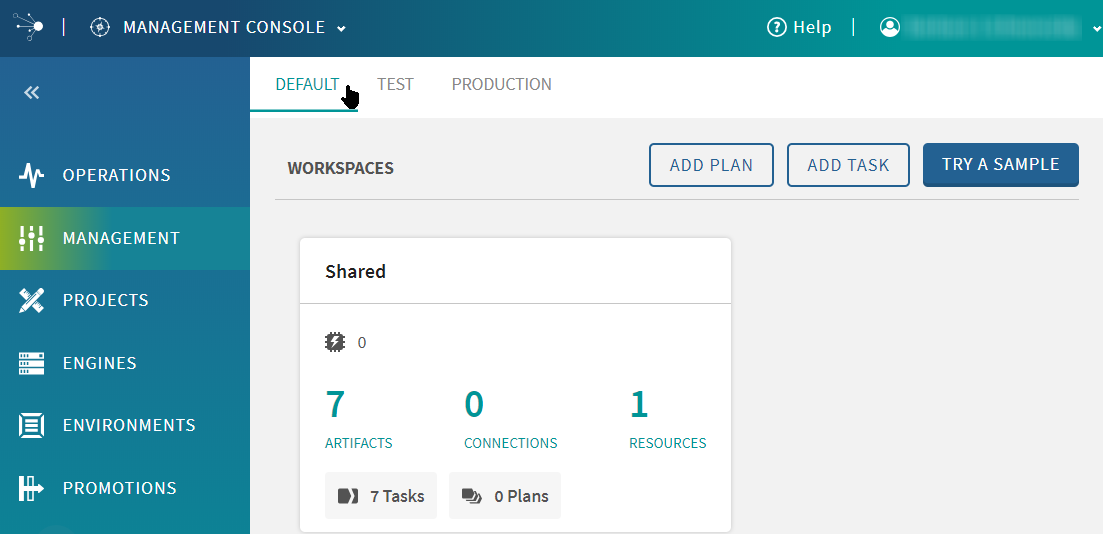
## Before you begin

You must have Author permission for the workspace where the task is located.

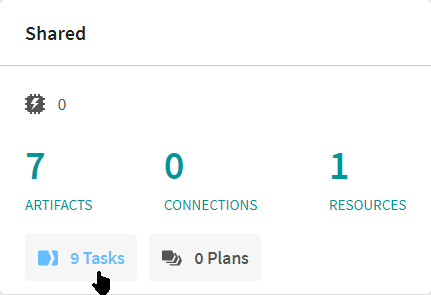
## Procedure

1. Go to **MANAGEMENT**.
2. Select the correct environment from the top menu.

## Example



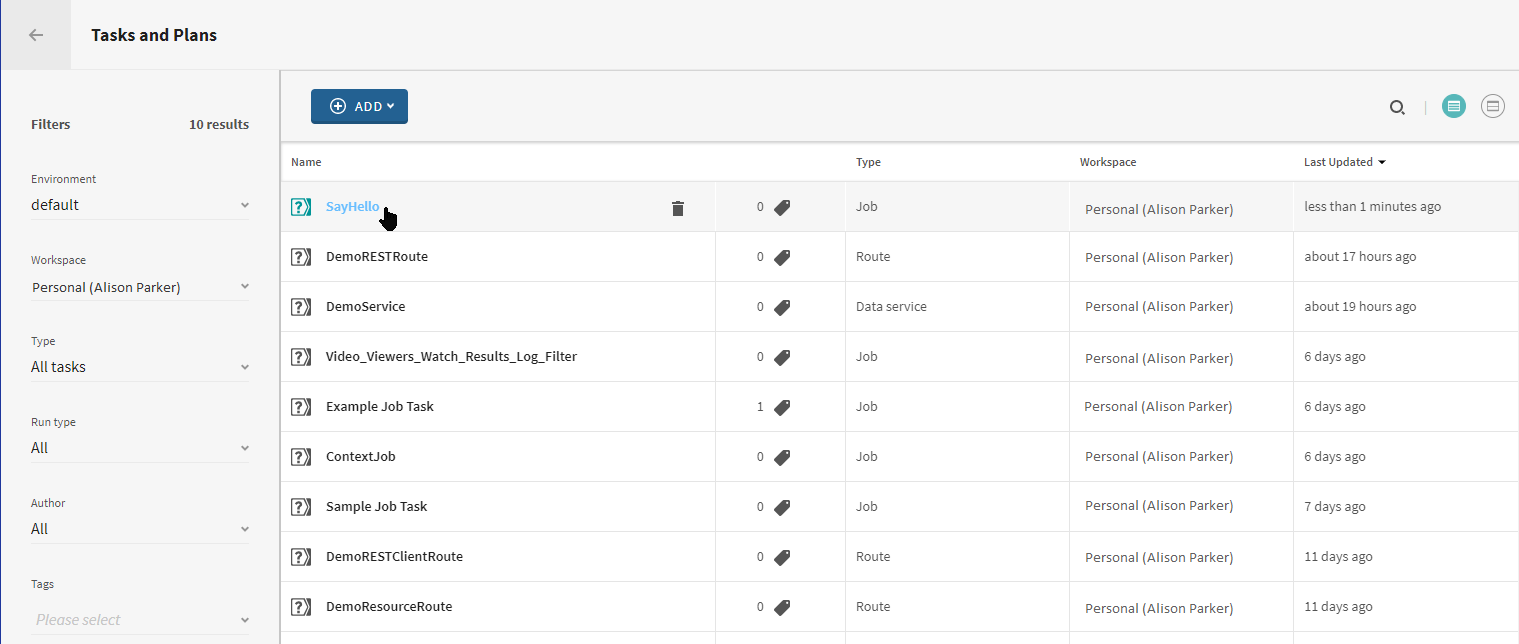
1. Click **Tasks** in the appropriate workspace.



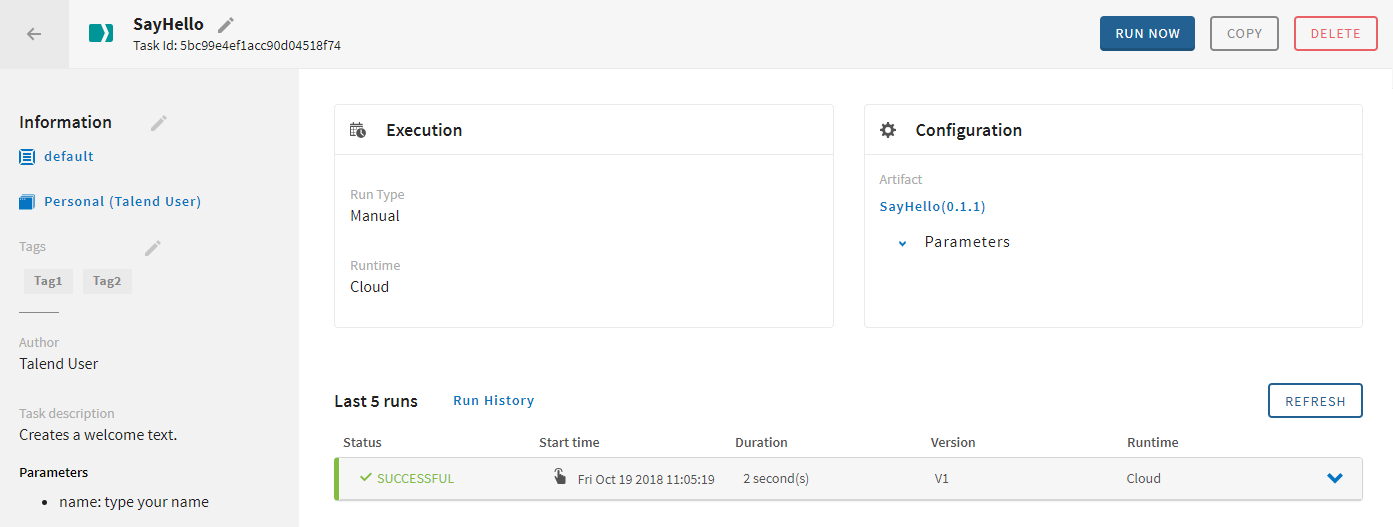
1. Select the task to edit from the list.

You can use the filters on the left-hand side of the page to limit the results.

## Example



## Results



Once on the **Task Details** page, you can:

* rename your task
* edit the task's execution settings, parameter configuration, basic information, and tags by clicking on the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\AB0C0FAE.tmp icons
* duplicate or delete the task
* run your task directly from this page by clicking **Run Now**
* view the results of the last five executions
* view the execution history of the task by clicking **Run History**
* go to the **Tasks and Plans** page of the environment by clicking the environment name under **Information**
* go to the **Artifact Details** page clicking the artifact name under **Configuration**

## Moving a Job task to another workspace

You can move a specific task to another workspace in the same environment from the Task Details page.

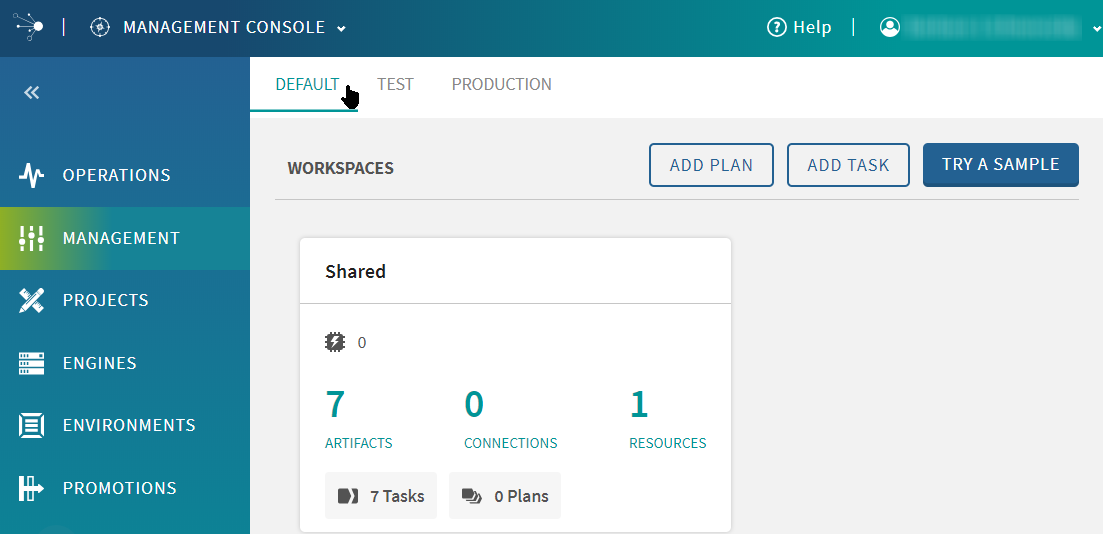
## Before you begin

You must have Author permission for the workspaces where the task is located and where you want to move it.

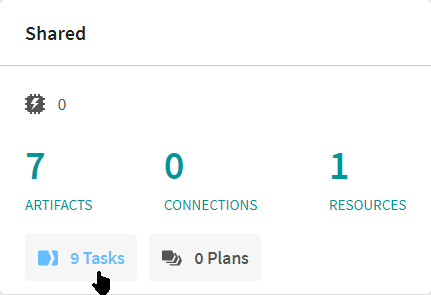
## Procedure

1. Go to **MANAGEMENT**.
2. Select the correct environment from the top menu.

## Example



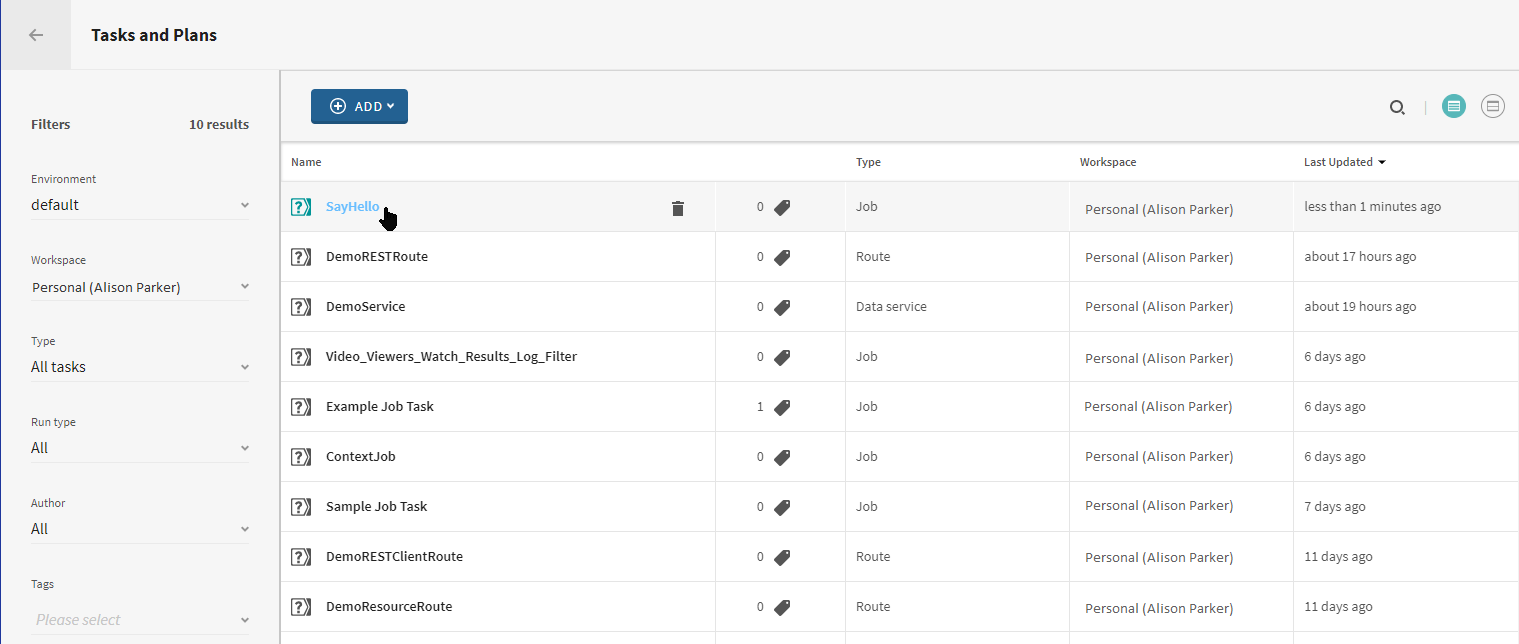
1. Click **Tasks** in the appropriate workspace.



1. Select the task to edit from the list.

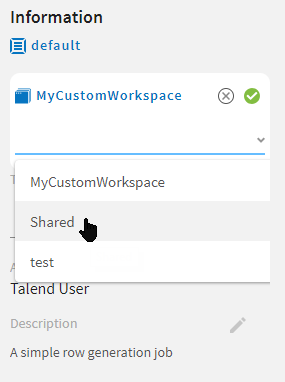
You can use the filters on the left-hand side of the page to limit the results.

## Example



1. On the Task Details page, hover over the workspace name in the **Information** panel.
2. Click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\2520AEC6.tmp icon.
3. Select the new workspace for the task.

## Example



1. Click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\DD687572.tmp icon to save your change.

## Editing the Job task description

You can edit the description of a specific task from the Task Details page.

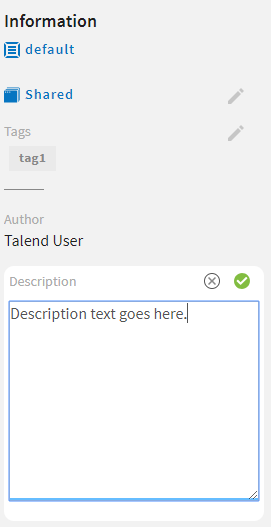
## Before you begin

You must have Author permission for the workspace where the task is located.

## Procedure

1. Go to the details page of the task you want to edit.
2. Hover over the **Description** in the **Information** panel.
3. Click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\A333E650.tmp icon.
4. Change the text in the description field.

## Example



1. Click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\B7A2709C.tmp icon to save your change.

## Changing the artifact version used in a Job task

You change the version of the artifact used in a specific task from the Task Details page.

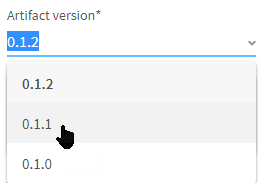
### Before you begin

You must have Author permission for the workspace where the task is located.

### Procedure

1. Go to the details page of the task you want to edit.
2. Hover over the **Configuration** panel.
3. Click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\40EDCD0A.tmp icon.
4. In the **Artifact** section of the **Edit Task** wizard, change the artifact version.

## Example



1. To only save the task with the new artifact version (without running it with the updated version at the next scheduled execution), click **SAVE DRAFT**.

If you save the task as draft, but later run it manually by clicking **RUN NOW** on the Task Details page, the task will be executed with the updated artifact version.

1. To run the task with the new artifact version at the next scheduled or manual execution, click **GO LIVE** at the end of the procedure.

## Results

Changing the artifact version used increases the task version number.

## Updating Job tasks with latest artifact version

After publishing or promoting a new version of an artifact, tasks have to be updated.

### Before you begin

You must have Author permission on the task's workspace, and at least one permission type on the artifact's workspace.

### About this task

After publishing a new version of the artifact, if more than one task contains the artifact, they have to be updated manually with the new version.

After promoting a new version of the artifact, none of the tasks it is used in are updated. You have to edit the tasks manually to include the new version.

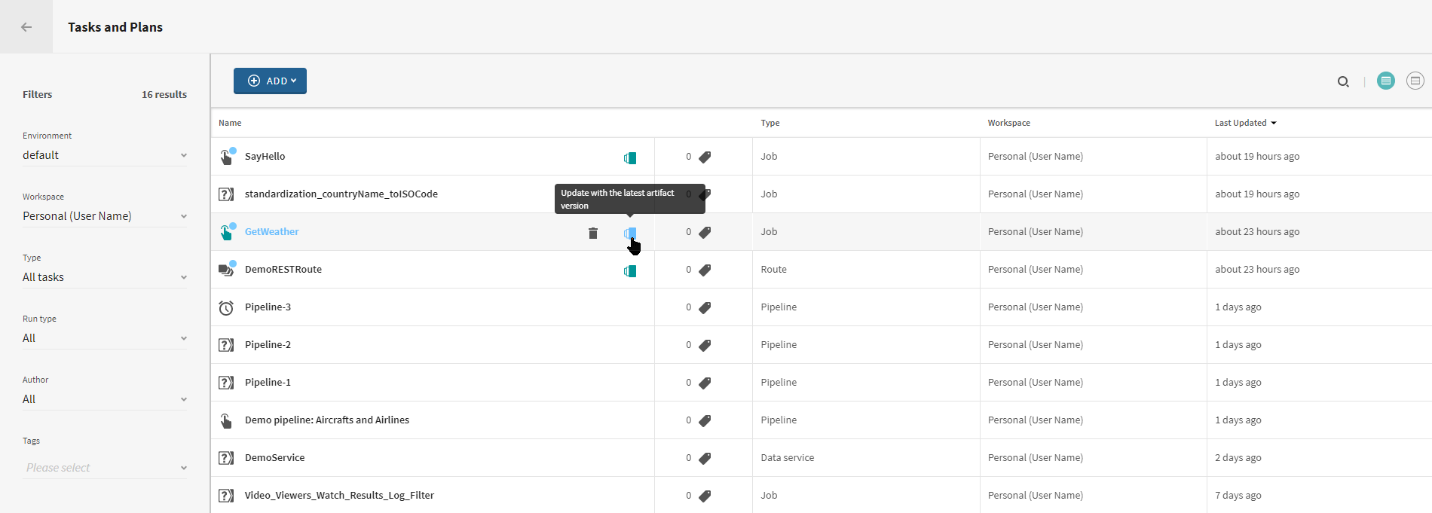
**Note:** If you update a task that is used in a plan with a new artifact version, the plan is automatically updated after you run the task with the new artifact version.

You can update a particular task from the **Task Details** page, or multiple ones directly from the **Tasks and Plans** page of the appropriate workspace. To update tasks directly from the **Tasks and Plans** page, follow this procedure.

### Procedure

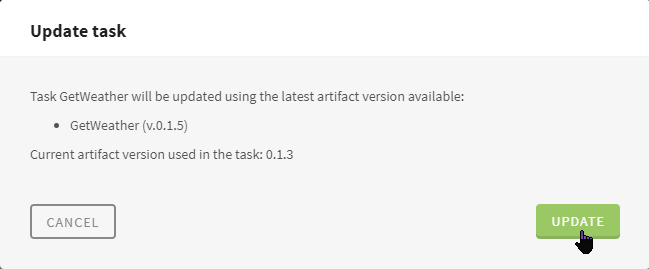
1. Open the **MANAGEMENT** page.
2. Click **Tasks** in the appropriate workspace.
3. On the **Tasks and Plans** page, click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\6509F5F6.tmp icon next to the task you want to update.

## Example



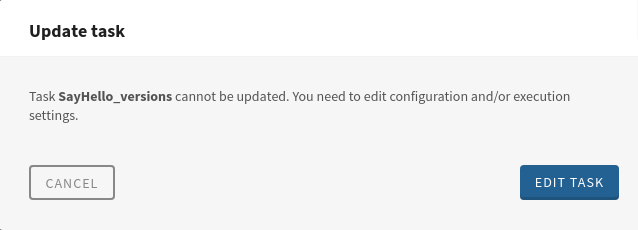
1. Confirm the task update in the popup window by clicking **UPDATE**.

## Example



1. If the new artifact version contains mandatory parameters that are not set, you must edit the task's configuration or execution settings.

## Example



## Results

The task is updated and saved as a draft with the new artifact version. To ensure that the task is executed with the new artifact version, run the task from the **Task Details** page.

If the task is executed at least once with the new artifact version, any plan containing the task is updated automatically.

## Deleting Job tasks

### Before you begin

You must have Author permission for the workspace where the task is located.

### About this task

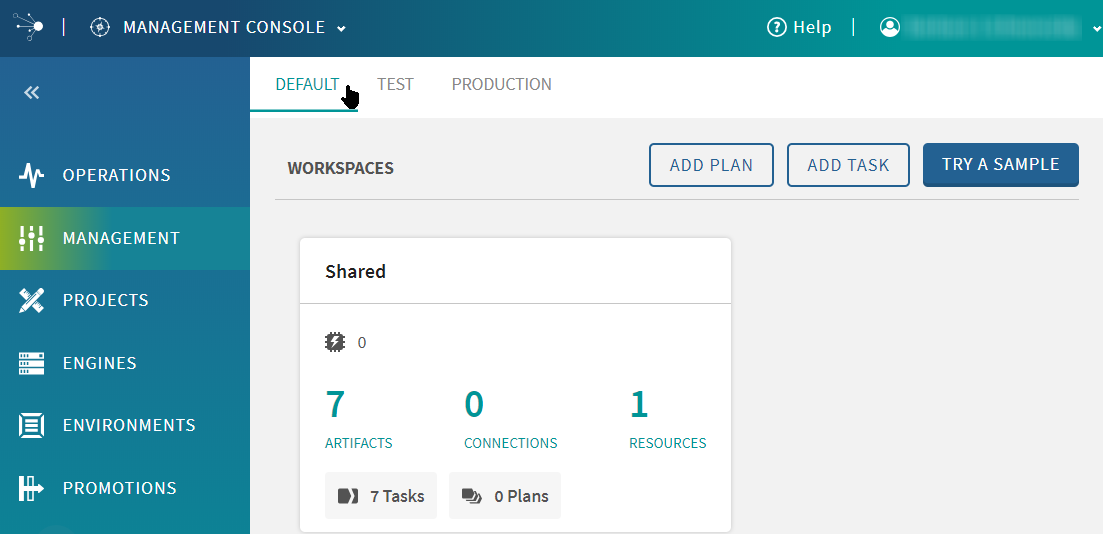
You can only delete tasks that are not used in plans.

When deleting a task, all its scheduled executions are stopped.

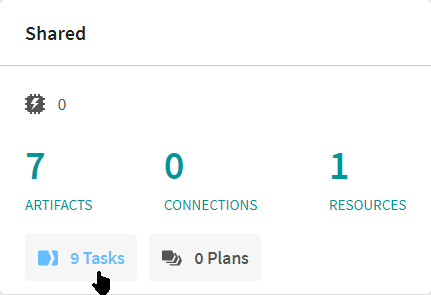
### Procedure

1. Go to **MANAGEMENT**.
2. Select the correct environment from the top menu.

## Example



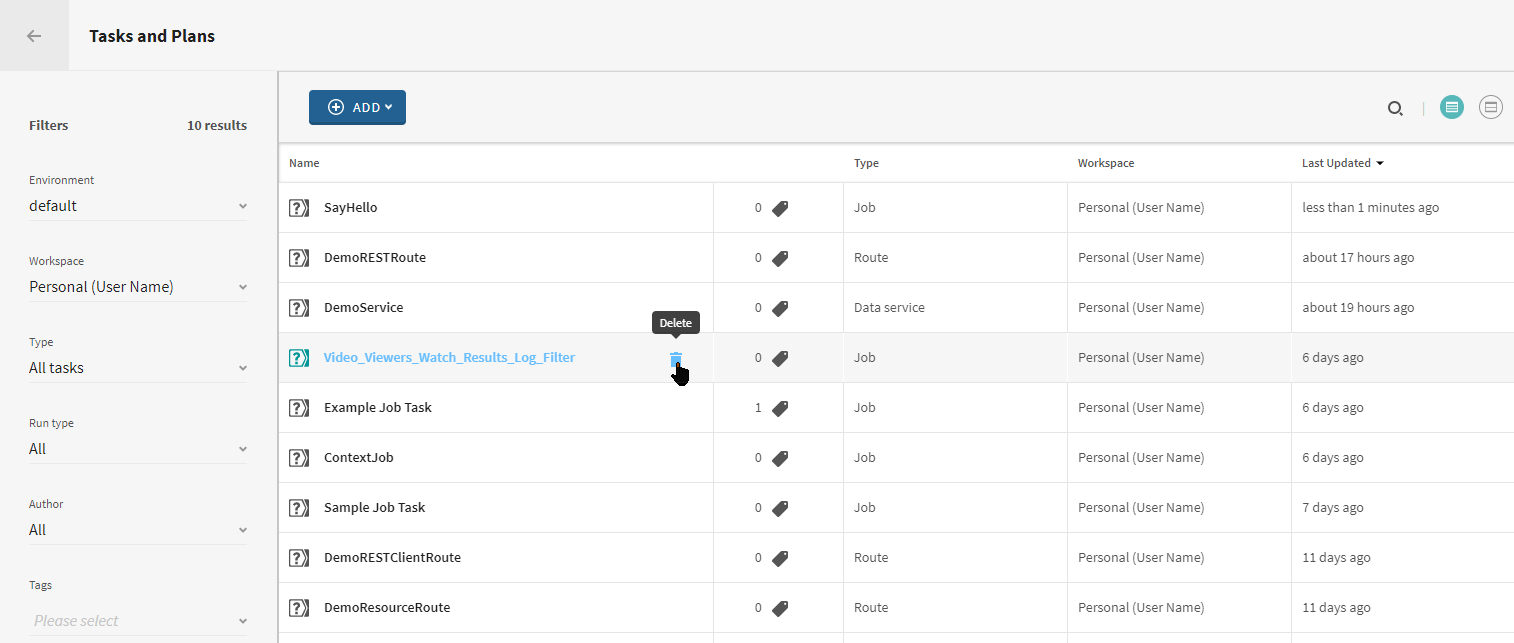
1. Click **Tasks** in the appropriate workspace.



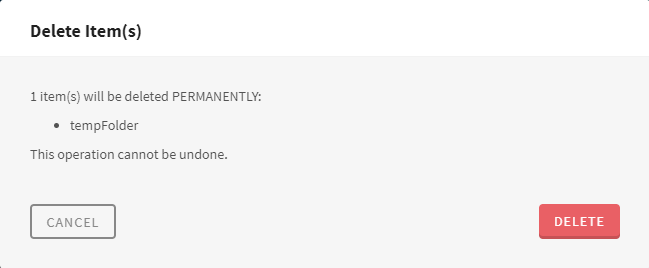
1. Hover over the task to delete and click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\F65FB53A.tmp icon.

You can use the filters on the left-hand side of the page to limit the results.

## Example



1. **Optional:**You can also delete tasks on the Task Details page, by clicking **DELETE**.
2. Confirm the deletion in the pop-up window.



# Scheduling Job executions

Define how frequently you want to run your Job task or plan.

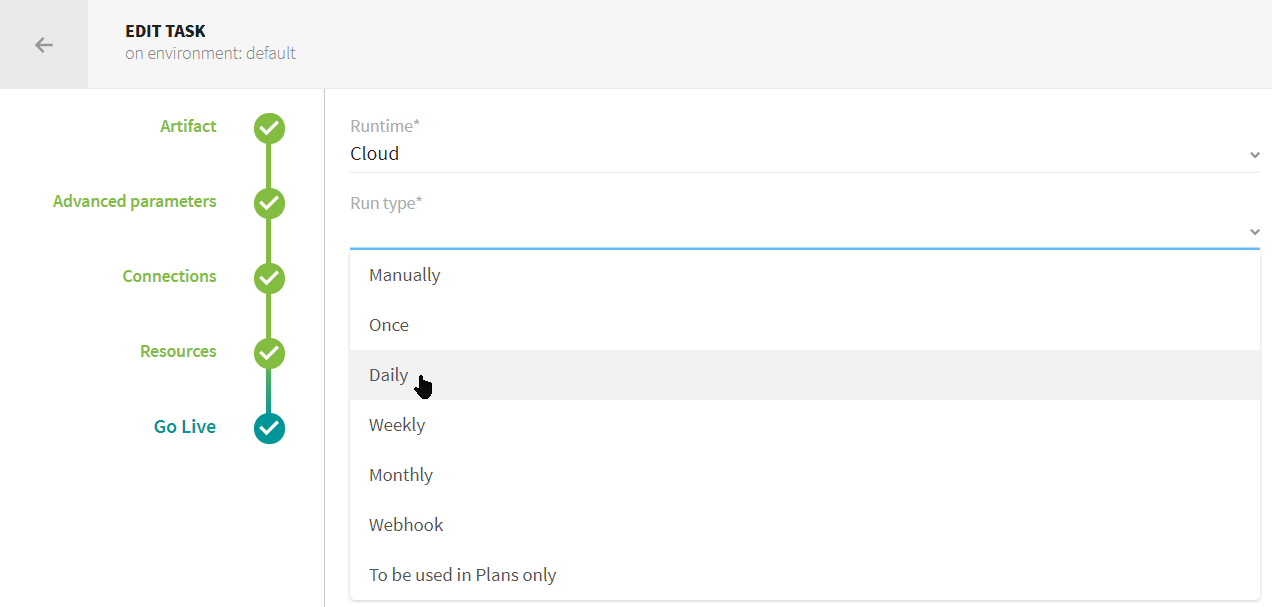
### About this task

You can schedule multiple execution times only for **Daily** **Run type**.

### Procedure

1. If you are editing your task or plan after it has been created, go to its details page, then click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\97A0D824.tmp icon next to **Execution**.
2. In the **Go Live** step, select the execution interval from the **Run type** drop-down list.

## Example

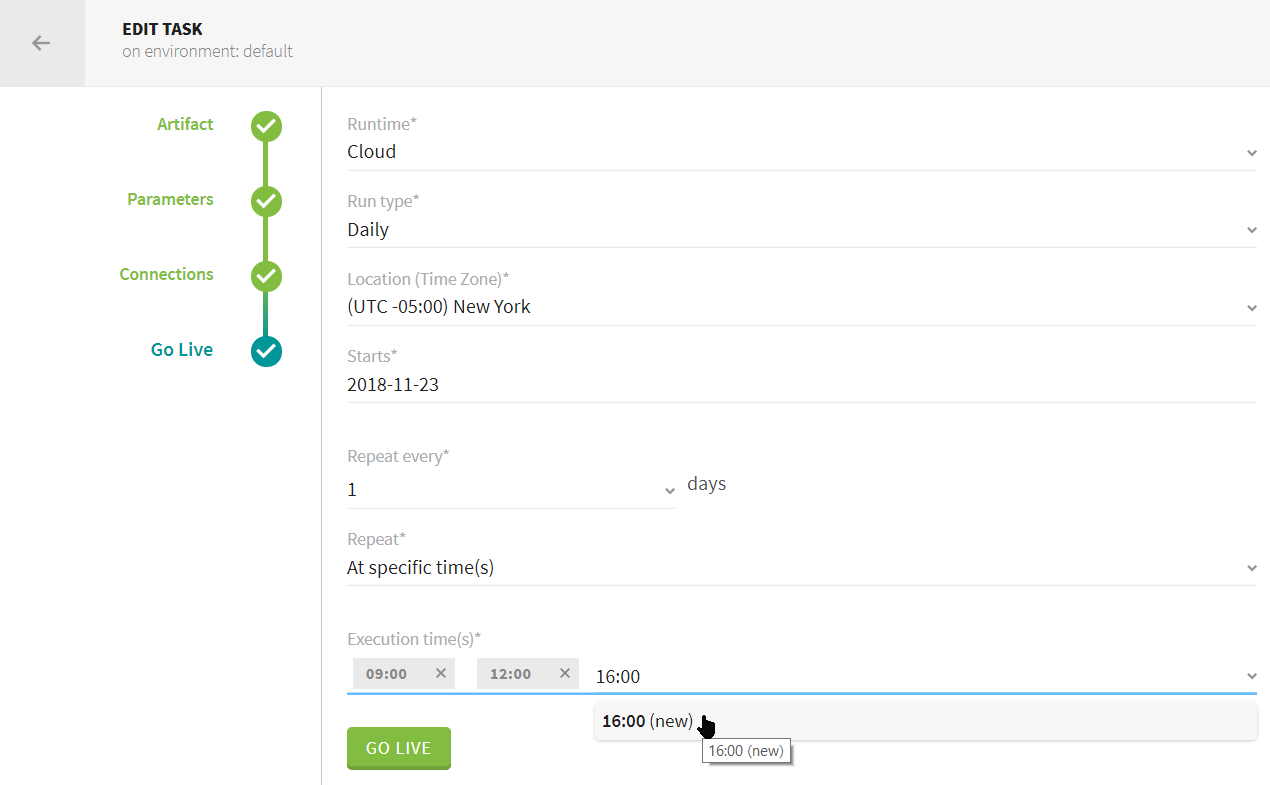


1. In the **Location (Time Zone)** field, select/enter the time zone for your executions.
2. Enter the start date of the execution.
3. Select/enter the frequency of the execution in days/weeks/months.

For example, if you want to run your task or plan every day, enter **1**.

1. To run the task or plan at specific times during the day, select **At specific time(s)** from the **Repeat** drop-down list and enter the execution times below.
2. Configure the execution times by typing in the time then clicking on it in the drop-down list.

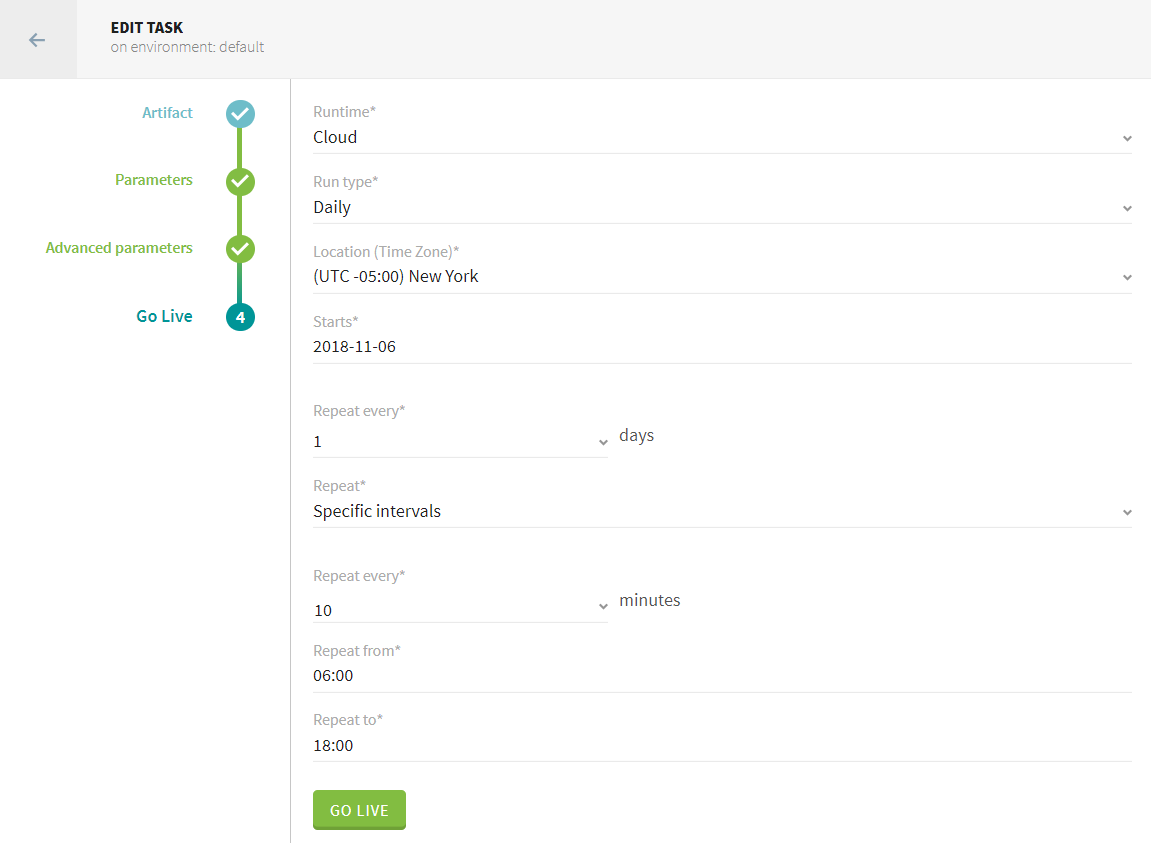
## Example



The task or plan will run at 09:00, 12:00, and 16:00 every day.

1. To run the task or plan at intervals, select **Specific intervals** from the **Repeat** drop-down list.
   1. Set the interval time in minutes in the **Repeat every** field.
   2. Enter the start time for the execution in the **Repeat from** field.
   3. Enter the end of executions in the **Repeat to** field.

## Example



The execution will happen every 10 minutes every day between 06:00 and 18:00.

1. Click **GO LIVE**.

## Results

A confirmation message is displayed at the top of the page. You are redirected to the task or plan details page. The schedule you have defined appears under **Execution** > **Run Type**.

## What to do next

To terminate the execution of a task or plan, click **STOP** in the **Execution** area.

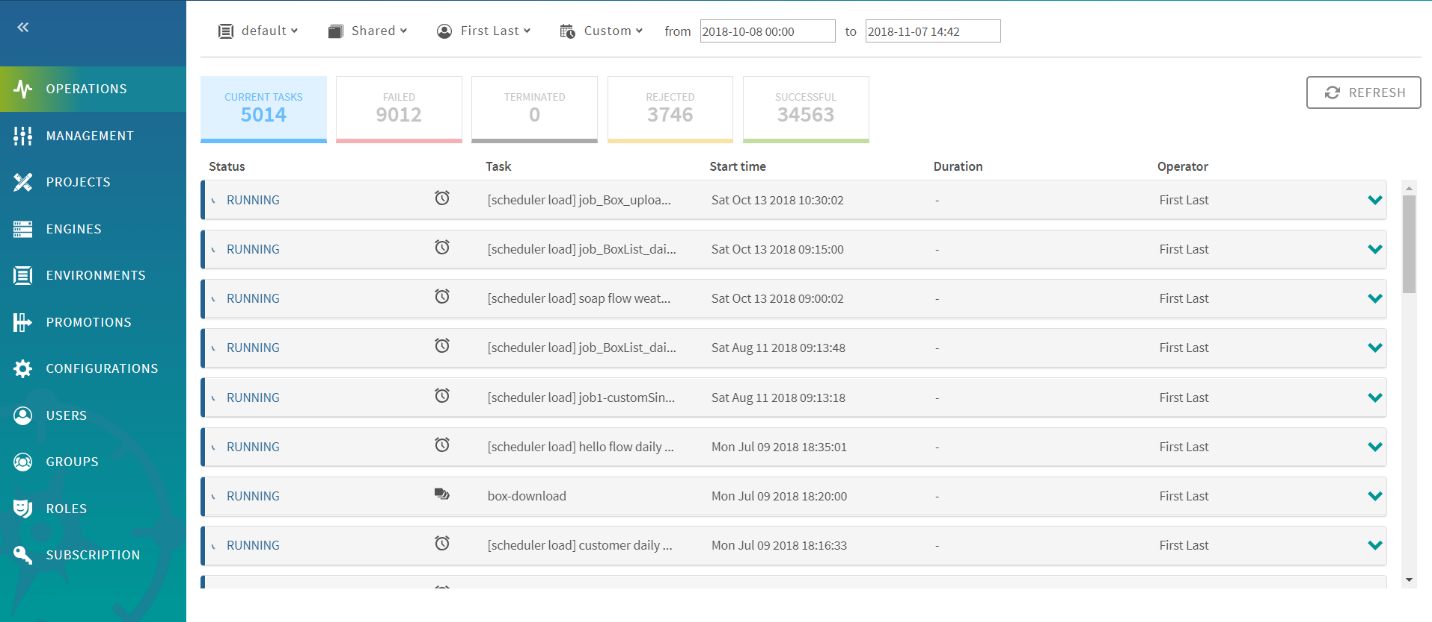
# Monitoring executions

Talend Cloud Management Console provides monitoring capabilities from inspecting a single task/plan execution to viewing past executions, split executions by status for a given period or on a given workspace.

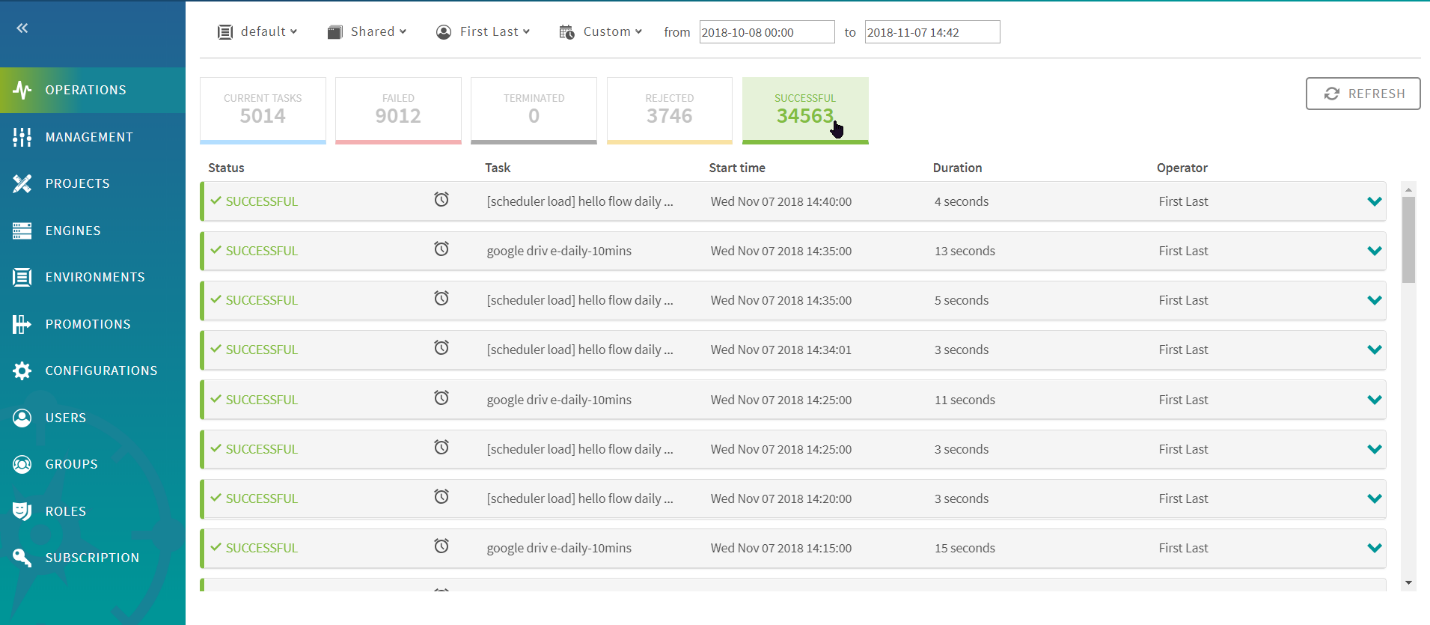
In Talend Cloud Management Console, you can monitor single executions to track down rejected records or find where the execution has failed.

For each execution, you can inspect the logs and download them as a .log file. You can also enable the automatic export of logs to your Amazon S3 bucket to act as your log repository.

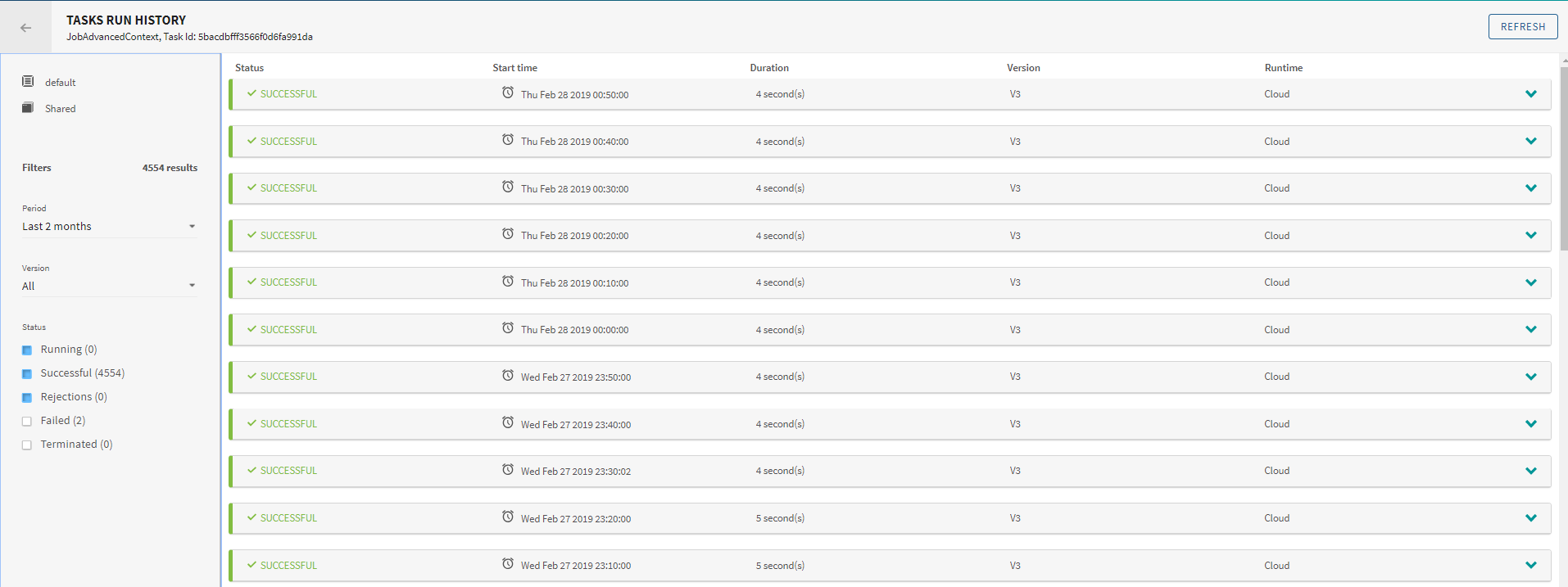
Go to the **OPERATIONS** page to view past and current task/plan executions. You can filter the executions to a particular environment, workspace, operator, or time period by selecting the appropriate values from the drop-down lists at the top of the page.



You can also choose to see only the current, failed, terminated, rejected, or successful executions by clicking the boxes below the filters.



To view the executions of a particular task, expand it then click **Task Run History**.



You can access this list from the **Task Details** page as well.

# Viewing execution logs

Task and plan logs gather business and technical information about the executions: message, severity, timestamps and versions. You can use these logs to analyze and debug your tasks/plans or [send them to Support](https://www.talend.com/services/technical-support) for additional assistance.

### About this task

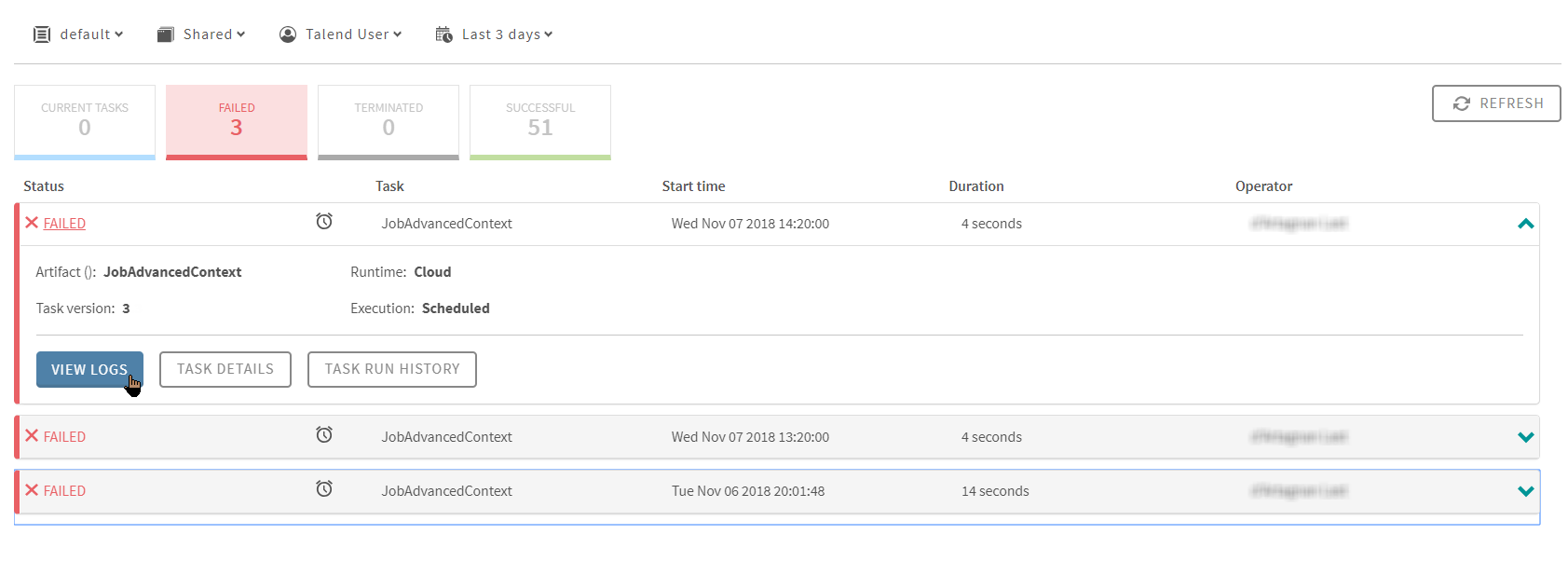
Child job logs are not available if you selected the **Use an independent process to run subjob** option of the **tRunJob** component in Talend Studio.

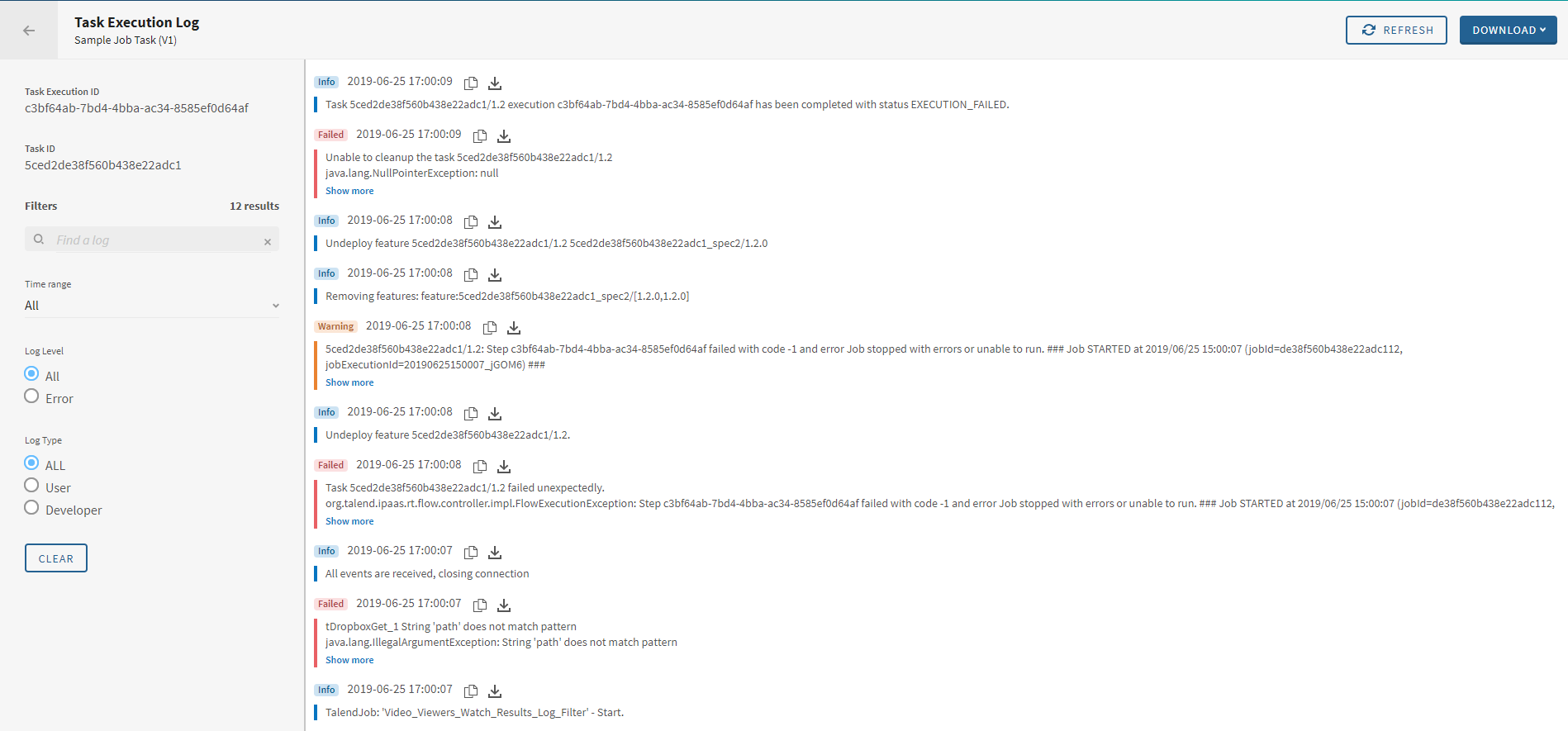
You can access the logs of a particular task or plan from its details page as well.

### Procedure

1. Go to **OPERATIONS**.
2. Filter to the appropriate environment/workspace/operator/time period at the top of the page.
3. Select the status of the execution to retrieve the logs for.
   * Current
   * Failed
   * Rejected
   * Terminated
   * Successful
4. Expand the execution you want to retrieve the logs for.
5. Click **VIEW LOGS**.

## Example

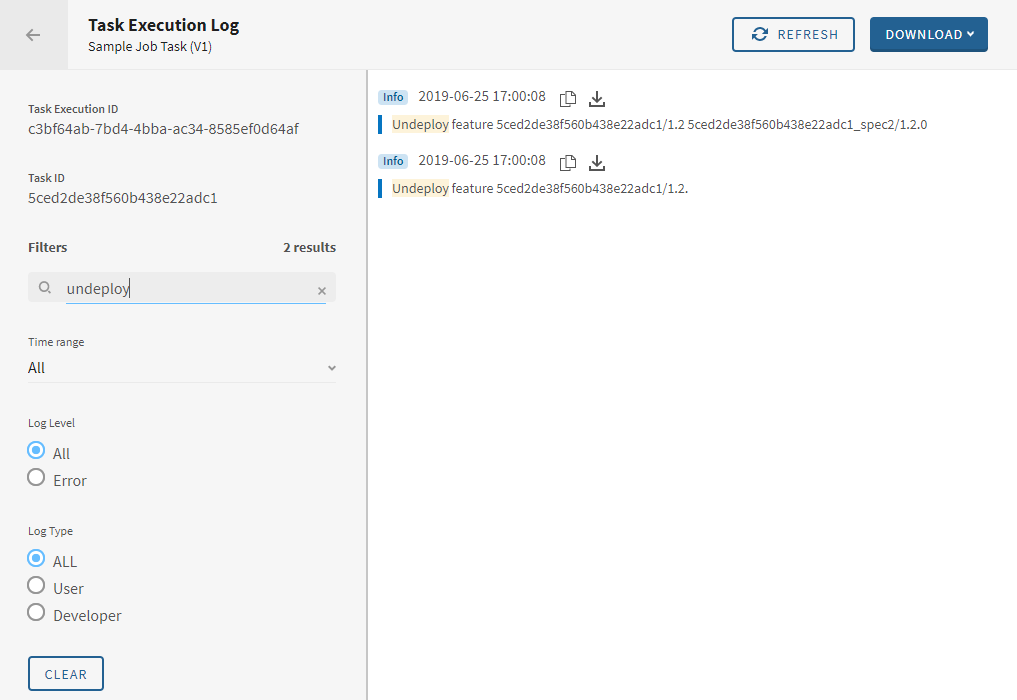




1. To search for a particular log message, type into the full text search field on the left-side panel.

The search starts automatically and the results are highlighted. To search for incomplete words, use the \* symbol.

## Example



1. To search for a log created during a particular period of time range, use the **Time range** field.

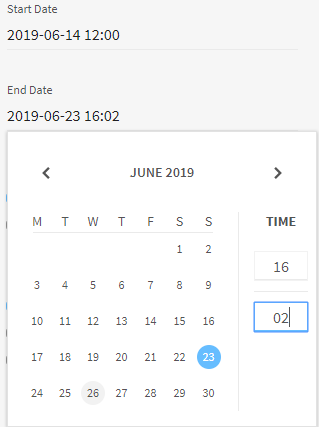
You can limit your search results to the following time ranges by default:

* + All
  + Last 5 minutes
  + Last hour
  + Last 24 hours
  + Last week
  + Last month
  + Custom

The predefined filters use the current time if the task is still running, and the finish time if the task execution has ended.

1. If you choose **Custom**, you must select the date and type in the time on the dialog box.

## Example



1. Select the severity of the logs to be displayed.
   * All
   * Error
2. Select the type of logs to be displayed.

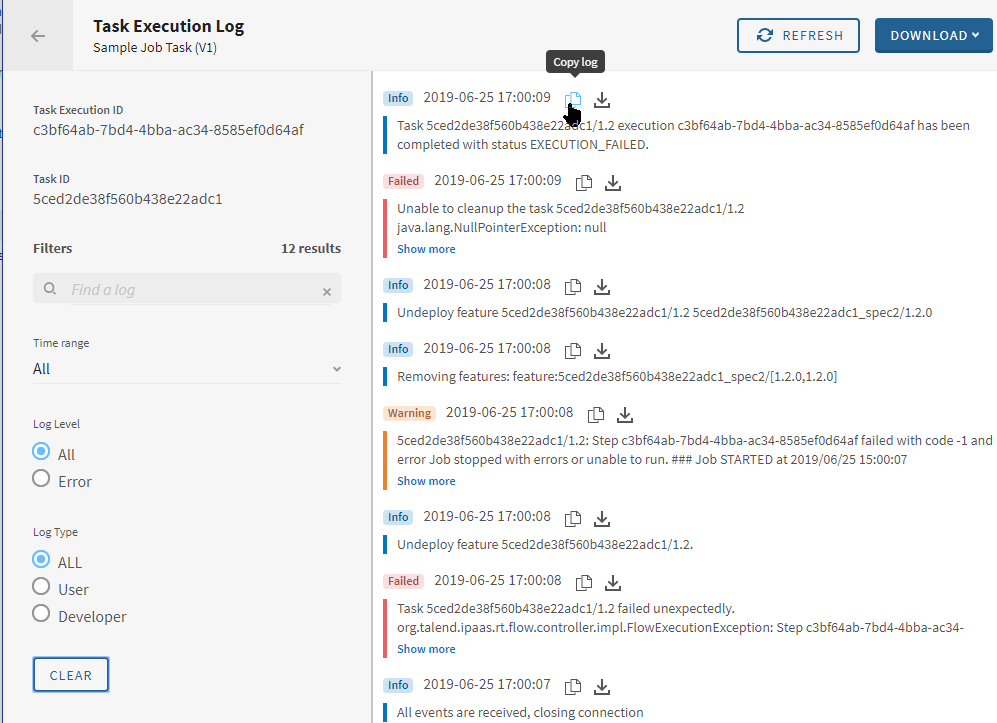
If your Job task includes the tJobLog component, you can choose between the following options:

| **Log type** | **Information** |
| --- | --- |
| **All** | Complete logs (including technical information and all severity levels) |
| **User** | Cloud user operations |
| **Developer** | Talend Studio Integration Developers |

In the case of Data Service, Route, and pipeline tasks, or Job tasks that do not include the tJobLog component, the User and Developer logs will be empty; only the complete logs are available.

1. To copy the content of a specific log to the clipboard, click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\5EFADC6E.tmp icon.

## Example



1. To reset all filters, click **CLEAR** at the bottom of the panel.

# Downloading execution logs

You can use these logs to analyze and debug your tasks/plans or [send them to Support](https://www.talend.com/services/technical-support) for additional assistance.

### About this task

Child job logs are not available if you checked the **Use an independent process to run subjob** option of the **tRunJob** component in Talend Studio.

The execution logs for OSGi Data Services and Routes (deployed on Talend Runtime) show all log data from Talend Runtime for the duration of the current deployed task. Therefore, from the deployment to the undeployment of a task running on the same Talend Runtime, the Operator, who has access to one of the parallel deployed tasks on the same Talend Runtime, can see all logs. This also includes the log data produced by other Routes and Data Services running at the same time on the same Talend Runtime. Once a task is undeployed, its log collection stops.

### Procedure

1. Access the log view of the task or plan from the **OPERATIONS** or the task/plan details page.
2. To download all the logs independent of the filter selection, click **DOWNLOAD** > **All**.
3. To only download the results displayed for current filters, select **DOWNLOAD** > **Filter results**.
4. To download only a single log, click the C:\Users\lredd\AppData\Local\Microsoft\Windows\INetCache\Content.MSO\FD96E99A.tmp icon above the log content.

# Talend Cloud Management Console Public API

You can use the API to interact with Talend Cloud Management Console from an external system, for instance, a scheduler.

The Swagger UI API reference is available at <https://api.us.cloud.talend.com/tmc/> for AWS USA, <https://api.eu.cloud.talend.com/tmc/> for AWS Europe, <https://api.ap.cloud.talend.com/tmc/> for AWS Asia-Pacific, or <https://api.us-west.cloud.talend.com/tmc/> for Azure West.

You can switch between versions by selecting one from the drop-down list in the top right corner of the page.

Talend Cloud Management Console Public API version 1.0 is deprecated.

To use the API, you must authenticate your calls using a Bearer Personal Access Token that you can generate from your profile preferences.