

Running tasks in the cloud

Overview

In this module, you learned how to publish tasks to Talend Cloud and how to execute them in the cloud. You also learned how to create and schedule an execution plan, and how to promote elements from one environment to another.

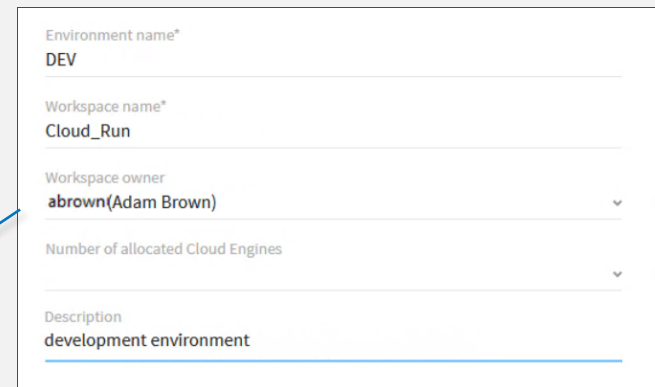
Key steps

1 Create a new environment in Talend Management Console

In Talend Management Console to create an environment, provide the following:

- Environment name
- Workspace name
- Workspace owner

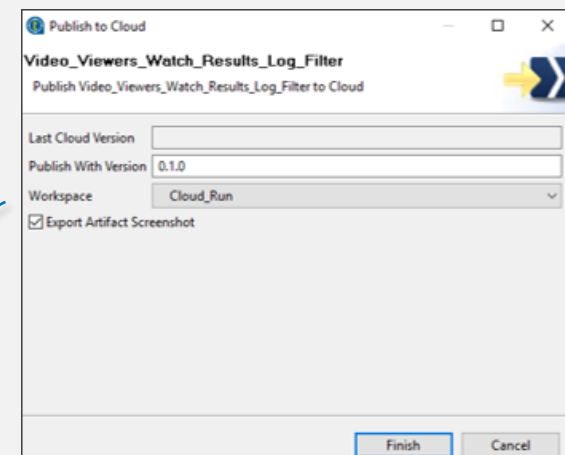
This is an example of DEV environment with the workspace Cloud_Run.



2 Publish a Job to Talend Cloud

After Talend Studio you've configured with your Talend Cloud account, and your environment has been created in Talend Management Console, you can publish a Job from Talend Studio to Talend Cloud.

The Job is published to a workspace, in this case, Cloud_Run, of an environment.



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Execute a Job on a cloud engine

Tasks are related to published Jobs and can be configured and run in Talend Management Console.

Configure the following task settings:

- Task parameters, connections
- Task Runtime (indicate on which engine the execution is performed)
- Task Run Type (Manual, Scheduled, Webhook execution)

In this example, the task execution is done on a cloud engine because the Runtime is set to Cloud. The task execution can be monitored in the **Run history** section.

The screenshot displays the 'Execution' and 'Configuration' panels. In the 'Execution' panel, 'Run Type' is set to 'Manual' and 'Runtime' is set to 'Cloud' (highlighted with a red box). The 'Configuration' panel shows the artifact 'Video_Viewers_Watch_Results_Log_Filter(0.1.0)' with expandable sections for 'Parameters' and 'Connections'. Below these panels is the 'Last 5 runs' table, which includes columns for Status, Start time, Duration, Version, and Runtime. A 'REFRESH' button is located to the right of the table.

Status	Start time	Duration	Version	Runtime
▶ RUNNING	Wed Mar 20 20...	7 second(s)	V1	Cloud ▼

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Create and schedule a plan

A plan is a sequence of different tasks that are grouped in steps. A handler can be defined for each step in case of a failure.

This plan consists of two steps.

A plan can be scheduled to execute regularly at specified intervals by setting the Run Type value to Daily, Weekly, or Monthly.

In this example, the task execution is scheduled to run Monthly, Every 2 months, on the 1st.

The screenshot shows the 'Plan Steps' configuration. It lists two steps: '1. Video Viewers: (2) 1 Task' and '2. Customers_Movies: (2) 1 Task'. Each step has a description of its expected outcome and a list of tasks. For step 1, the task is 'Video_Viewers_Watch_Results_Log_Filter (v2.5)'. For step 2, the task is 'Filtered_Logs_Customers_Per_Movie (v1.3)'.

The screenshot shows the 'Execution' panel with 'Run Type' set to 'Monthly' (highlighted with a red box). Below this, the schedule is defined as 'Every 2 month, on the 1st' at '10:00' in '(UTC +01:00) Paris'. A 'STOP' button is visible on the right.

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Promote environments

You can promote elements from one environment to another by providing:

- Source and target environments
- Scope (environment, workspace, Plan, Task, Artifact)

When promoting environments, you can review the list of elements that are promoted.

Review the Promotion Analysis.

The screenshot shows the 'Promote' interface for a 'DEV to PROD' promotion. The left sidebar has 'Configuration' and 'Review' tabs, with 'Review' selected and a green checkmark icon. The main area is titled 'PROMOTION ANALYSIS' and displays the following details:

- Scope: workspace
- Workspace: Cloud_Run
- Resources (if used): override

Under the 'workspaces' section, there is a tree view of elements to be promoted:

- Cloud_Run(Custom): (1) REUSED
 - Tasks: (2)
 - Filtered_Logs_Customers_Per_Movie(Versio 1): CREATED (1)
 - Video_Viewers_Watch_Results_Log_Filter(Versio 4): CREATED (2)
 - Plans: (1)
 - Video_Viewers_Customers: CREATED
 - Artifacts: (2)
 - Filtered_Logs_Customers_Per_Movie(Versio 0.1.1): CREATED (2)
 - Video_Viewers_Watch_Results_Log_Filter(Versio 0.1.0): CREATED (2)
 - Connections: (1)
 - TMC_Dropbox: CREATED (1) newly created connection have to be updated manually with real parameters

A green 'PROMOTE' button is located at the bottom right of the main area.