Implementing cloud operations

Overview

In this module, you learned how to create and pair a Remote Engine and execute a task on a Remote Engine. You also learned how to group tasks as a plan and schedule it for execution. Finally, you promoted your cloud artifacts from a source to a target environment.

Key steps

1 Creating and pairing a Remote Engine

A Remote Engine is a fully managed execution service hosted on an on-premises server and managed by you. Remote Engines are recommended for hybrid-to-cloud integration or fully on-premises integration, as they allow access to local files, databases, and applications.
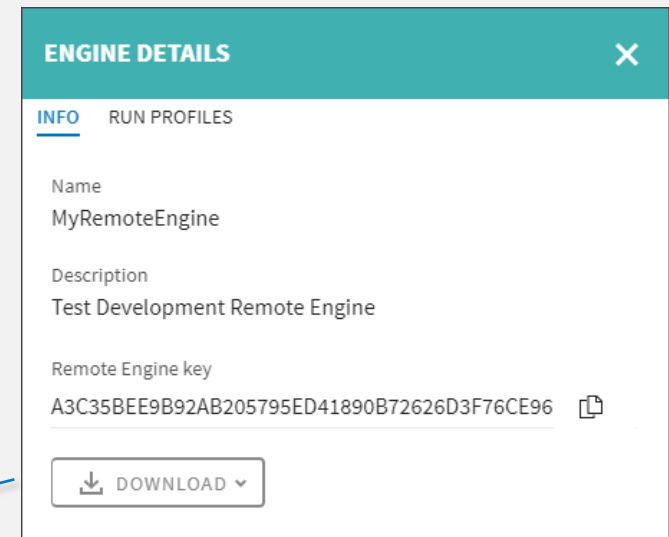
You create a Remote Engine in Talend Management Console with:
- A name
- An environment
- A workspace

After creating the Remote Engine, install the Remote Engine by downloading the Talend Engine Installer from Talend Management Console and running it on your local machine.

Pair the Remote Engine by providing the **Remote Engine Key** that is stored in Talend Management Console.

On the **Engine Details** page, copy the **Remote Engine Key**, then download the Talend Engine installer.
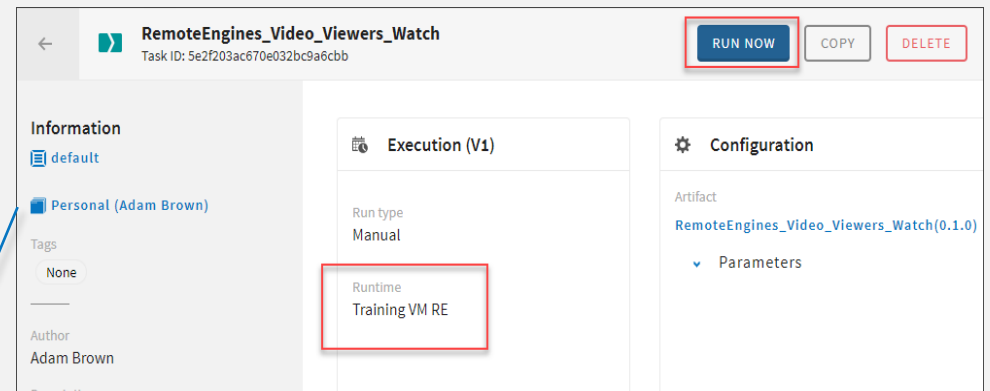
ENGINE DETAILS ✕

INFO RUN PROFILES

Name
MyRemoteEngine

Description
Test Development Remote Engine

Remote Engine key
A3C35BEE9B92AB205795ED41890B72626D3F76CE96

⬇ DOWNLOAD ⌄

JOB AID

JOB AID

2

Executing a Job task on a Remote Engine in Talend Cloud

Configuring Talend Studio with your Talend Cloud account allows you to publish a Job to a workspace in Talend Cloud environment.

In Talend Management Console, to execute this Job on a Talend Remote Engine, you need to configure the related task to the published Job by setting the **Runtime** to a **Talend Remote Engine**.

> In this example, the Runtime of the Job task is set to the Remote Engine, **Training VM RE**.

RemoteEngines_Video_Viewers_Watch
Task ID: 5e2f203ac670e032bc9a6cbb

RUN NOW   COPY   DELETE

Information
default

Personal (Adam Brown)

Tags
None

Author
Adam Brown

Description

Execution (V1)

Run type
Manual

Runtime
Training VM RE

Configuration

Artifact
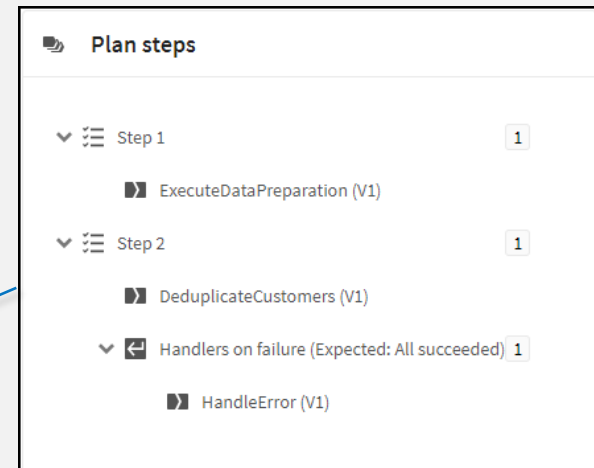RemoteEngines_Video_Viewers_Watch(0.1.0)

Parameters
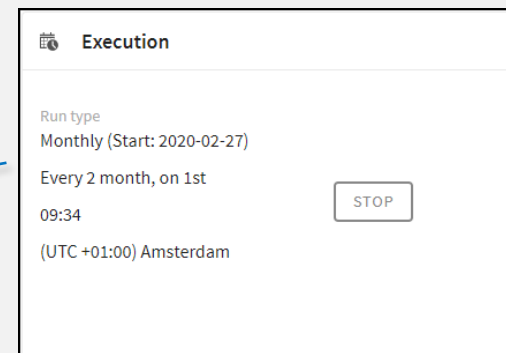

3

Creating and scheduling a plan

A **plan** is a sequence of steps that contain one or several tasks. In Talend Management Console, you create a plan by defining the steps and the order of how the steps are executed. For each step, in case of a failure, you can provide a task as a handler.

> In this plan, there are two steps. Each step contains one task to be executed. Step 2 contains the HandleError task handler that is executed if the DeduplicateCustomers task fails.

You can schedule a plan 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.

Plan steps

Step 1   1
    ExecuteDataPreparation (V1)

Step 2   1
    DeduplicateCustomers (V1)
        Handlers on failure (Expected: All succeeded)   1
            HandleError (V1)

Execution

Run type
Monthly (Start: 2020-02-27)

Every 2 month, on 1st

09:34

(UTC +01:00) Amsterdam

STOP

4 Promoting environments

You can promote your cloud artifacts from a source environment to a target environment by creating a promotion in the Talend Management console.

Click the **arrow** to promote cloud artifacts from DEV to PROD environments.

Promotion				Last execution	Scope	Status	Promoter
	Promote						
DEV to PROD	▶	🕐	🗑	26.02.2020 ...	Workspace	Successful	Adam Brown

You can select the artifacts to promote by choosing the promotion scope (environment, workspace, plan, task, artifact).

Then, verify using the Analysis report the complete list of artifacts to promote.

Click the **PROMOTE** button to start the DEV to PROD promotion.

Promote
DEV to PROD (Parameters will be kept as in target)

Configuration ✓

Review ②

PROMOTION ANALYSIS

Scope	Workspace
Workspace	Cloud_Run
Resources (if used)	Override

Workspaces
  ⌄ (1)
    ⌄ Cloud_Run(Custom): (2) Reused
      ⌄ Tasks: (3)
          DeduplicateCustomers(Version 1): Created
          ExecuteDataPreparation(Version 1): Replaced
          HandleError(Version 1): Created
      ⌄ Artifacts: (3)
          DeduplicateCustomers(Version 0.1.0): Created 🔗
          ExecuteDataPreparation(Version 0.1.0): Reused 🔗
          HandleError(Version 0.1.0): Created 🔗

PROMOTE