



Documentation

IBM Workload Scheduler integration with Talend Integration Cloud

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CHANGE HISTORY

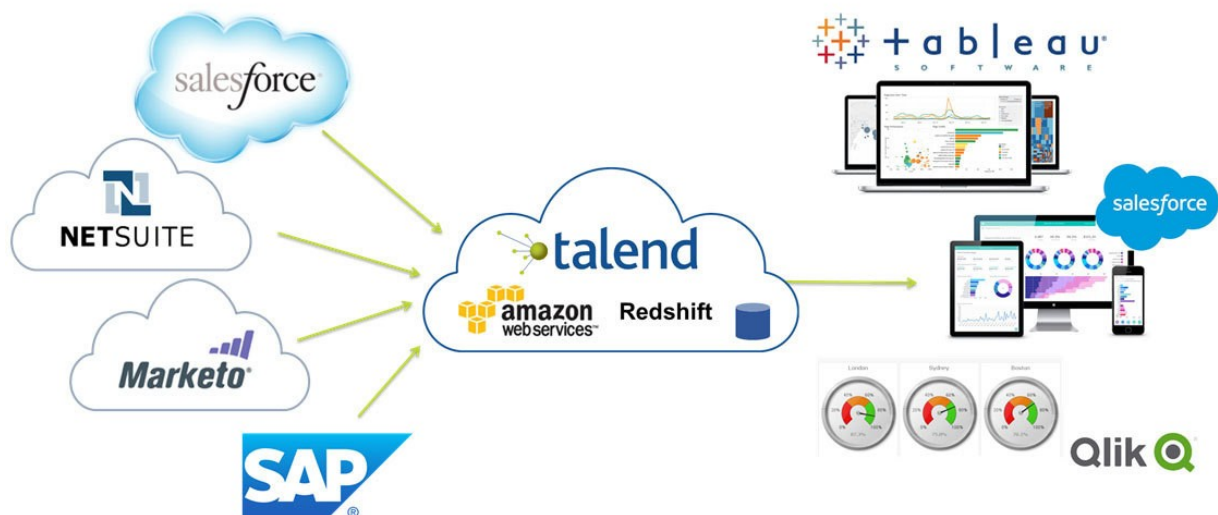
Version	Date of change	Change detail
1.0	April 10 2017	Initial version by M. Sanders

1. INTRODUCTION AND ARCHITECTURE

Integrate all your cloud and on-premises data with a secure cloud integration platform-as-a-service (iPaaS). Talend Integration Cloud puts powerful graphical tools, pre-built integration templates, and a rich library of components at your fingertips. Quickly integrate and cleanse data generated by your organization, your customers, and beyond.

- Speed deployment of big data, real-time analytics in the cloud
- Powerful tooling increases line of business productivity and agility
- Optimize hybrid integrations with instant, elastic, and secure capacity

By leveraging the IBM Workload Scheduler plug-in for Talend Integration Cloud, you will be able to schedule these mission critical jobs from a single interface.





2. INSTALLING AND CONFIGURING THE PLUG-IN FOR TALEND INTEGRATION CLOUD

The following prerequisites must be met in order to use the IBM Workload Scheduler plug-in for Talend Integration Cloud.

- IBM Workload Scheduler 9.1 or later
- IBM Dynamic Workload Console 9.1 or later

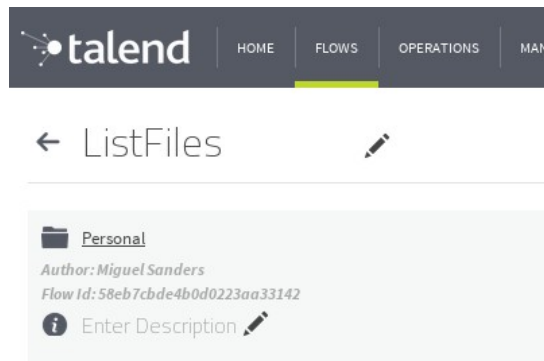
To install and configure the IBM Workload Scheduler plug-in for Talend Integration Cloud, perform the following steps:

- Copy *com.ibm.scheduling.agent.talendcloud_<version>.jar* to the *<TWA_HOME>/TWS/applicationJobPlugIn* folder on either the Master Domain Manager or a Dynamic Domain Manager
- Copy *com.ibm.scheduling.agent.talendcloud_<version>.jar* to the *<TWA_HOME>/TWS/JavaExt/eclipse/plugins* folder on the Dynamic Agent that will run the Talend Integration Cloud jobs
- Modify *config.ini* located in *<TWA_HOME>/TWS/JavaExt/eclipse/configuration* on the Dynamic Agent that will run the Talend Integration Cloud jobs. At the end of the line that starts with "osgi.bundles=", add the following:
",com.ibm.scheduling.agent.talendcloud@4:start"
- Restart the WebSphere Application Server of either the Master Domain Manager or the Dynamic Domain Manager.
- Restart the Dynamic Agent
- Restart the Dynamic Workload Console

3. DEFINING A TALEND INTEGRATION CLOUD JOB

From the Dynamic Workload Console, you can define a Talend Integration Cloud job as follows:

- In the Dynamic Workload Console navigation tree, expand *Administration* and select *Manage Workload Definitions*.
- Specify the name of the engine. Subsequently, the Workload Designer is displayed.
- In the Working List panel, select *New -> Job Definition -> Cloud -> Talend Integration Cloud*.
- On the *Talend Integration Cloud* panel, fill in the job details
 - **Hostname (*)** : Talend Integration Cloud hostname (example: integrationcloud.talend.com)
 - **Username** : The Talend Integration Cloud username. The user should have the *Execute* workspace role.
 - **Password (*)** : The password of the Talend Integration Cloud user.
To validate the connection, click *Test Connection*.
 - **Flow ID**: Fill in the Flow ID.



- **Polling period (*)** : The monitoring frequency determines how often the job is monitored. The default value is 10 seconds.
 - **Timeout (*)**: The monitoring time determines for how long the job is monitored. If the job hasn't finished by the end of the timeout interval, the job is marked as ABEND. The default value is 7200 seconds.
- (*) These parameters can also be supplied in a common properties file *TalendCloudJobExecutor.properties* located in `<TWA_HOME>/TWS/JavaExt/cfg` on the Dynamic Agent that will run the Talend Integration Cloud jobs. Values from the job definition (if provided) override the values in the properties file.

TALEND INTEGRATION CLOUD (9.3.0.02) - DELTA#P_TALEND_INTEGRATION_CLOUD_DEMO

Select an Action          

General Affinity Recovery Options **Talend Integration Cloud**

Connection Details

Hostname

Username

Password ...

Flow Details

* Flw ID

Polling period

Timeout



Alternatively, the *composer* command line can be used to define the job.

Example:

```
DELTA#P_TALEND_INTEGRATION_CLOUD_DEMO
TASK
<?xml version="1.0" encoding="UTF-8"?>
<jSDL:jobDefinition xmlns:jSDL="http://www.ibm.com/xmlns/prod/scheduling/1.0/jSDL"
xmlns:jSDLTalendCloud="http://www.ibm.com/xmlns/prod/scheduling/1.0/jSDLTalendCloud"
name="TALEND_CLOUD">
  <jSDL:application name="talendcloud">
    <jSDLTalendCloud:talendcloud>
      <jSDLTalendCloud:TalendCloudParameters>
        <jSDLTalendCloud:TalendCloudParms>
          <jSDLTalendCloud:connectionDetails>
            <jSDLTalendCloud:server>integrationcloud.talend.com</jSDLTalendCloud:server>
            <jSDLTalendCloud:username>miguel.sanders@trial02684.talend.com</jSDLTalendCloud:username>
            <jSDLTalendCloud:password>{aes}Ig86hNo/XDnyl+tyAE4Pv/2RsuXE=</jSDLTalendCloud:password>
          </jSDLTalendCloud:connectionDetails>
          <jSDLTalendCloud:flowDetails>
            <jSDLTalendCloud:flowId>58eb7cbde4b0d0223aa33142</jSDLTalendCloud:flowId>
            <jSDLTalendCloud:pollingPeriod>10</jSDLTalendCloud:pollingPeriod>
            <jSDLTalendCloud:pollingTimeout>7200</jSDLTalendCloud:pollingTimeout>
          </jSDLTalendCloud:flowDetails>
        </jSDLTalendCloud:TalendCloudParms>
      </jSDLTalendCloud:TalendCloudParameters>
    </jSDLTalendCloud:talendcloud>
  </jSDL:application>
</jSDL:jobDefinition>
RECOVERY STOP
```




4. MONITORING A TALEND INTEGRATION CLOUD JOB

Like regular jobs, you can monitor Talend Integration Cloud jobs by using either the Dynamic Workload Console or the *conman* command line.

@#@ @TALEND@CLOUD@

Status	Internal Status	Job	Job Type	Workstation (Job)	Job Stream	Workstation (Job Stream)
<input checked="" type="checkbox"/> Successful	SUCC	TALEND_INTEGRATION_CLOUD_DEMO	Talend Integration Cloud	DELTA	JOBS	DELTA