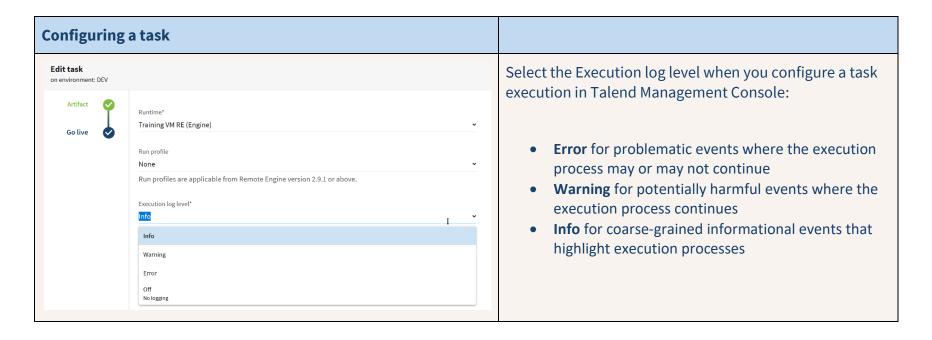
Logging and monitoring in Talend Management Console

OVERVIEW

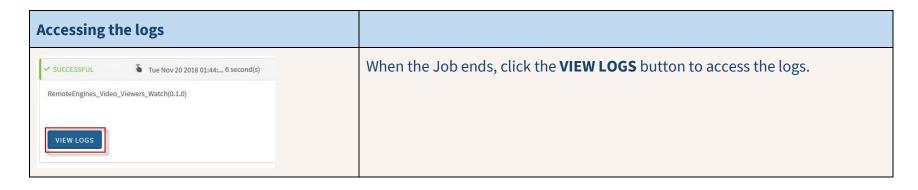
Talend Cloud allows you to run tasks on distant engines while monitoring the task executions and the resources they consume. In Talend Management Console, you can run tasks on a Cloud Engine or a Remote Engine using various levels of execution logs. When a task runs on a Remote Engine, you can monitor the engine resources using the Observability Metrics Collector (OMC).

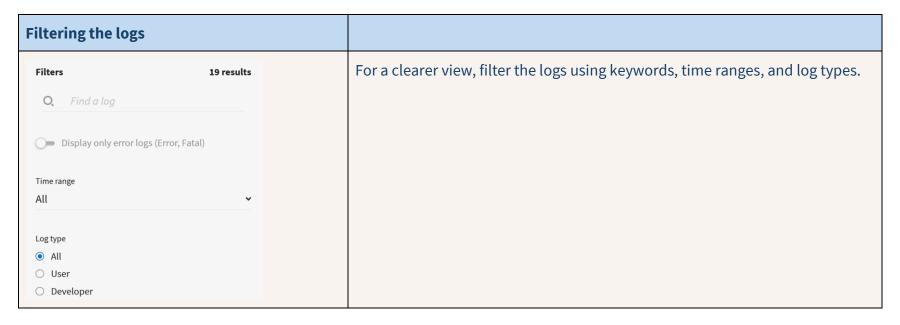
EXECUTION LOGS

Follow these tips when using the Job execution logs in Talend Management Console.



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BEST PRACTICES

Talend recommends that you:

- Set the log level to **Info** during testing phases only.
- Set the log level to **Warning** or **Error** in a production environment.
- Use **debug mode** only in actual debugging scenarios and rarely or never in a production environment, because running a task in debug mode can generate a huge amount of detail.

OBSERVABILITY METRICS COLLECTOR (OMC)

Follow these steps to enable and query the Observability Metrics Collector (OMC).

1

Use the Remote Engine configuration files located in <remote engine installation directory>\etc to enable and configure the OMC.

From there you can:

- Enable metrics generation
- Configure the metrics format (JSON or Prometheus)
- Configure the metrics push frequency
- Configure the metrics lifetime
- Add more contextual information to the metrics (optional)

Main configuration files:

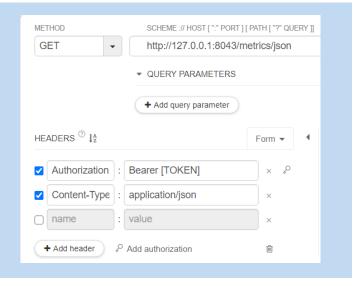
- org.talend.ipaas.rt.observability.cfg
 for enabling OMC and configuring the metrics
 generation frequency
- org.talend.observability.omc.cache.apm.cfg for setting the metrics lifetime
- org.talend.ipaas.rt.observability.jobContextConfig.cfg for adding contextual details

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2

Copy the token in the file **org.talend.observability.http.security.cfg** to access the Remote Engine monitoring API.

Reuse it for authentication when querying the API.



3

Query the API and channel the metrics to your monitoring and alerting console.

Various kinds of metrics are available:

- Operating system resource consumption
- Remote Engine resource consumption and workload
- Job run resource consumption (CPU, memory)
- Job run history (including component information, status, and duration)
- Job run performance (for example, records processed or rejected)

```
name: "component connection rows total",
category: "business",
context: ▼ {
   task name: "generateLogs",
   process id: "1cf5ab2a-943f-37e6-b7bc-3ca61063d17d",
   source_connector_type: "tRowGenerator",
   task_execution_id: "4a90aec7-5e06-4ade-a44a-8a6a219766a4",
   target_id: "tSortRow_1_SortOut",
   task_id: "601d64d38002de41f05e857d",
   target_connector_type: "tSortOut",
   target_label: "tSortRow_1_SortOut",
   connection_name: "row1",
   workspace_id: "601d1c6fa780c016ae78350a",
   thread id: "3e786575-30bc-456e-bb47-ee48739f2e98",
   account id: "acb2da5a-578c-4c73-bab4-e58a714a221c",
   remote_engine_id: "5eec9b45-d7f1-428d-a4d8-dfa6136ce105",
   job_name: "generateLogs",
   job_id: "_WJm4EGYuEeun95Xv1_UGAQ",
   source_label: "<b>__UNIQUE_NAME__</b><br>Create rows",
   remote engine name: "Training VM RE",
   job version: "0.1",
   source_id: "tRowGenerator_1",
   workspace_name: "Cloud_Run",
   environment name: "DEV"
time: "2021-02-17T09:06:27.457Z",
frequencyMs: 15000,
value: 2000000,
type: "counter"
```