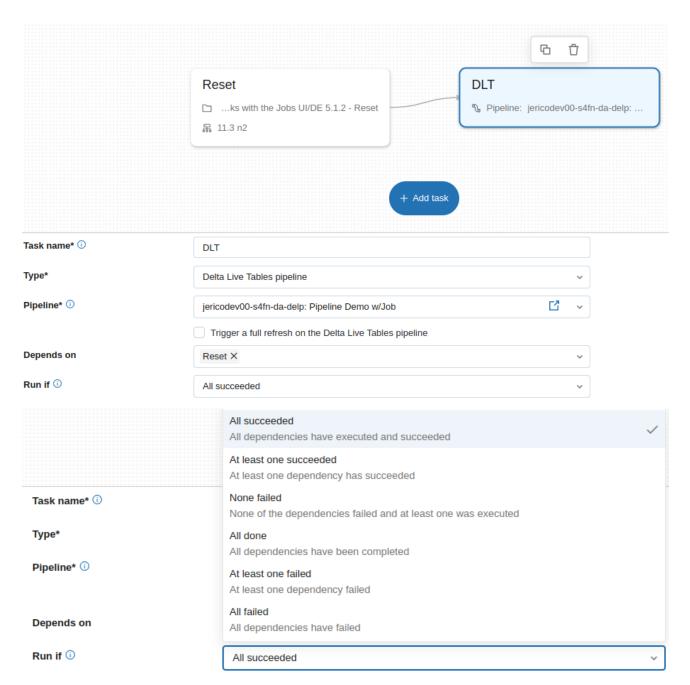
Production Pipelines

© Rangel

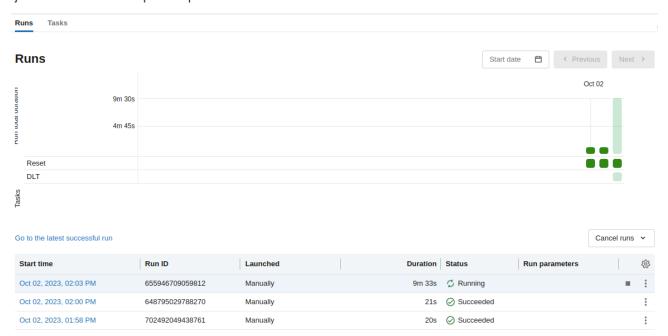
Workloads with Workflows

- 1. Identify benefits of using multiple tasks in Jobs.
 - allows you to orchestrate processing/ingestion of data/tables
 - allows isolation of each task and setting of dependencies between tasks
- 2. Set up a predecessor task in Jobs.
 - aka dependencies
 - use the **Depends on:** field to name a dependency.
 - additionally can add custom run behavior using Run if field.

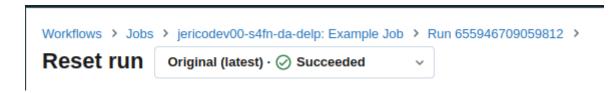


- 3. Identify a scenario in which a predecessor task should be set up.
 - · When you want to run another notebook first.
- 4. Review a task's execution history.
 - · Go to Jobs under Workflows

jericodev00-s4fn-da-delp: Example Job



- For task specific details:
 - Go to Job runs tab under Workflows
 - · Click on the task of interest



(i) Task run details

Job ID 802136187570299 日 Job run ID 655946709059812 Task run ID 904331168101011 日 Run as ② Jerico Dev Launched Manually Started 10/02/2023, 02:03:40 PM Ended 10/02/2023, 02:04:01 PM Duration 20s Queue duration (i) Status Succeeded

Notebook

/Users/jericodev00@gmail.com/data-engineer-learning-path-v1-0-2-notebooks/05 - Workflow Jobs/DE 5.1 - Scheduling Tasks with the Jobs UI/DE 5.1.2 - Reset

& Compute

✓ 11.3 n2

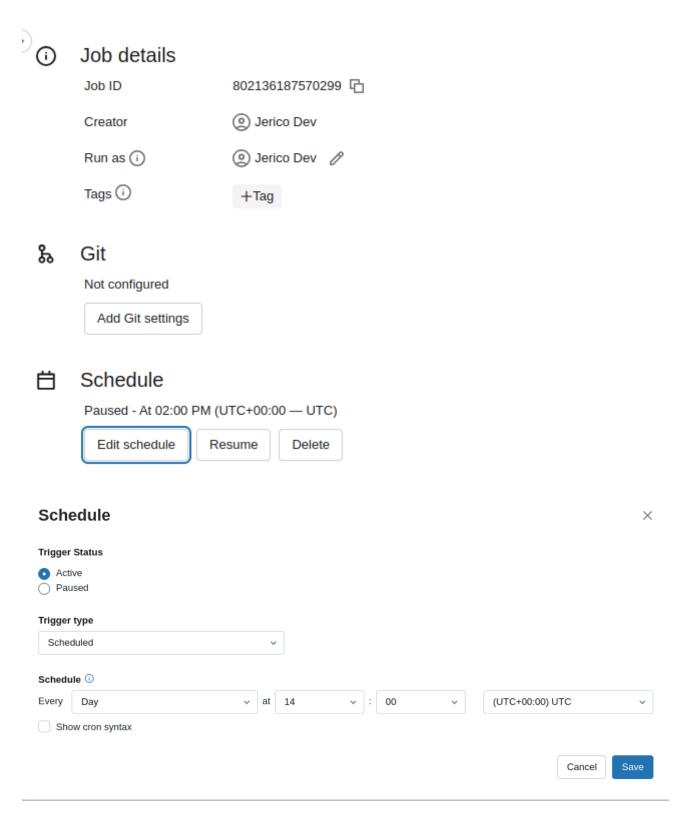
Driver: n2-standard-4 \cdot Workers: n2-standard-4 \cdot 0 workers \cdot 11.3 LTS (includes Apache Spark 3.3.0, Scala 2.12)



Task values

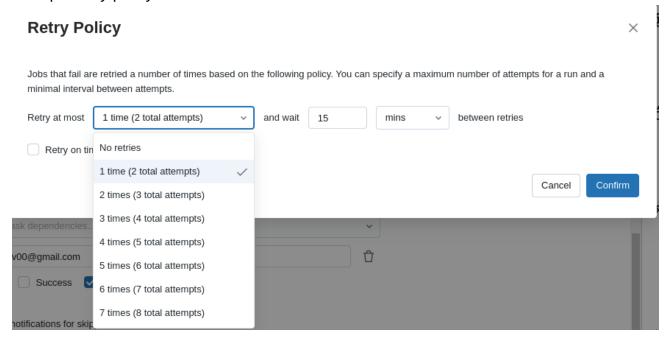
No task values have been set for this run

- 5. Identify CRON as a scheduling opportunity.
 - Under job details, we can schedule with CRON syntax

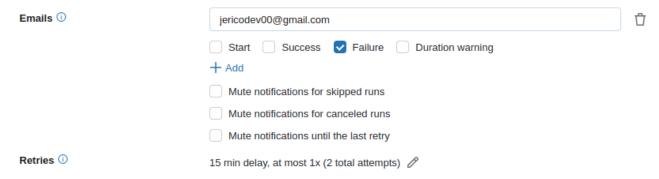


- 6. Debug a failed task.
 - Could not run due to GCP quota issues, but you can re-run the DAG at the task which failed, after debugging.

7. Set up a retry policy in case of failure.



- 8. Create an alert in the case of a failed task.
- 9. Identify that an alert can be sent via email.



Additional Notes:

- You can share data between tasks using task values. 1 This is similar to XCOMs in Airflow. You can set task values inside the notebook.
- Creating an alert for a Job Task is separate from the Alerts tab on the left, which only alerts for queries.