# ML1020 – Assignment 2 Nvidia Labs and Airflow Wordcount

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## Nvidia Labs Completion Certificate

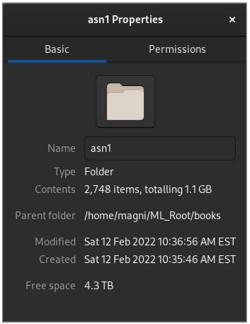


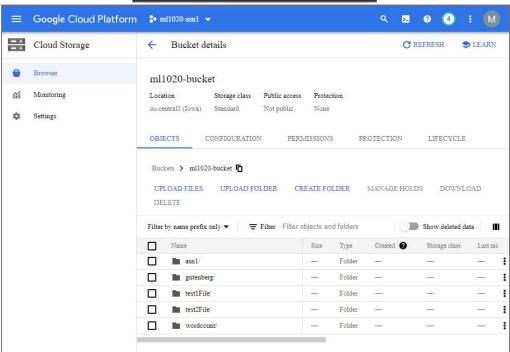


## Deploy Wordcount using Airflow in GCP

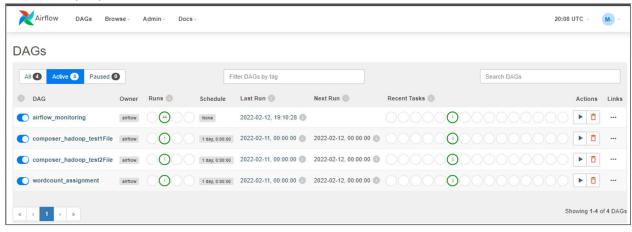
#### Dataset

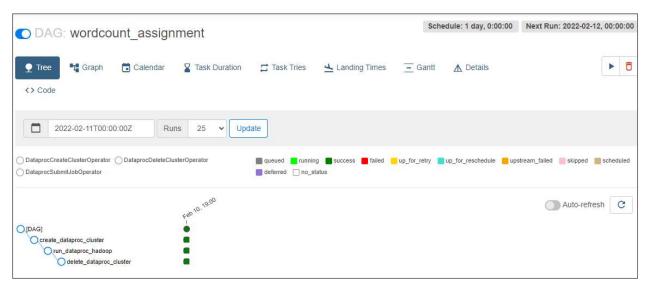
For the large dataset I used python to download books from Project Gutenberg. The download script is included at the end of the PDF. The final set of books used for the wordcount consisted of 2,748 files totaling over 1GB in size.

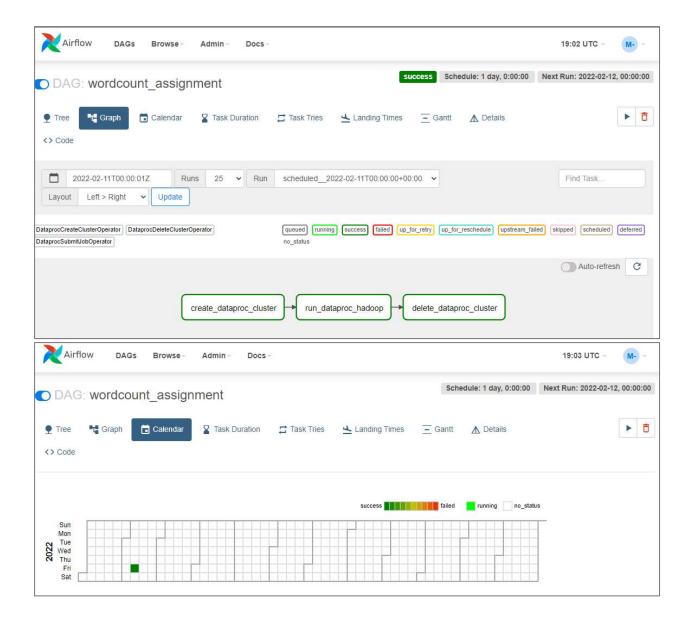


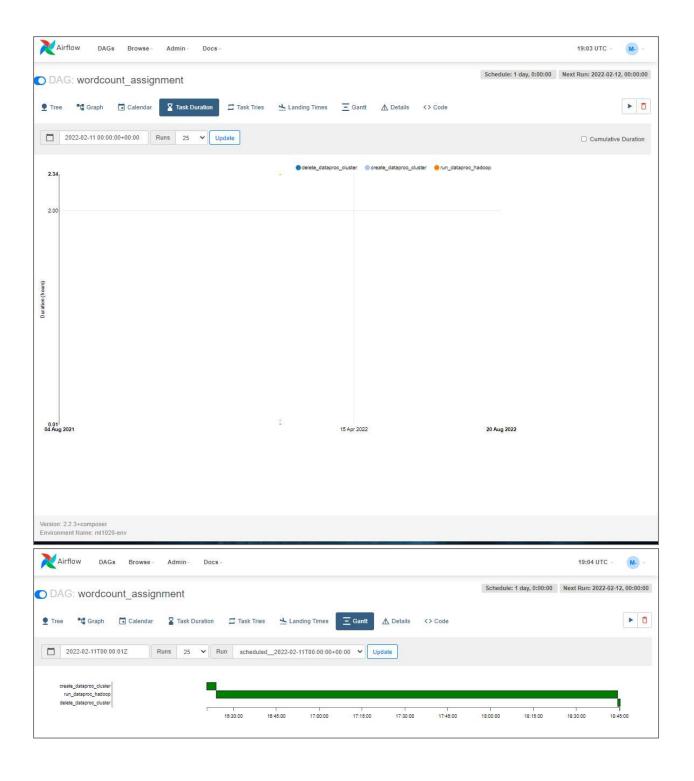


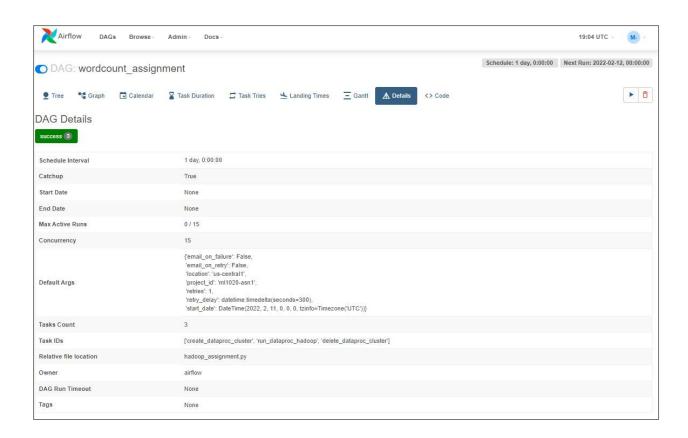
### Airflow deployment











#### Wordcount DAG

The wordcount DAG I used was based on a tutorial from google : <a href="https://cloud.google.com/composer/docs/tutorials/hadoop-wordcount-job">https://cloud.google.com/composer/docs/tutorials/hadoop-wordcount-job</a>