## Create Job Wizard

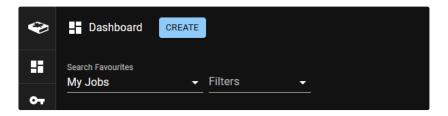
## Introduction

New to SPELLBOOK in 1.7.0 is the new **Job Wizard**, which allows you to create jobs in spellbook with ease. This feature improves upon existing job creation in spellbook, providing a number of new features that provide a faster, more convenient job creation experience.

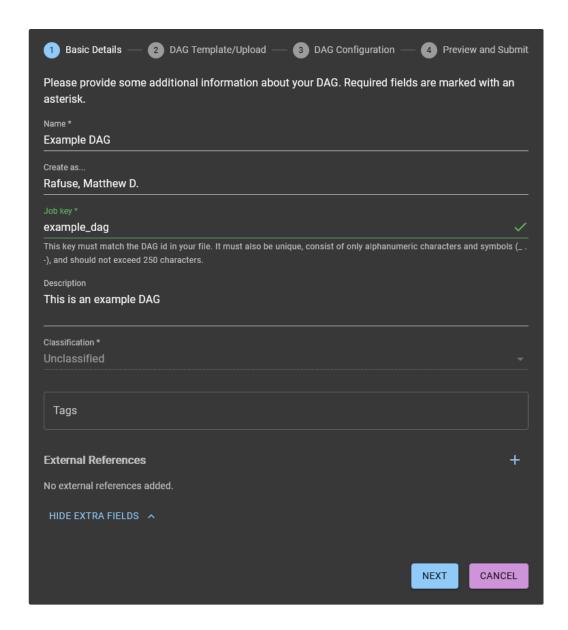
Previously, the create job form did not provide any sort of template to build your job from, and required you to either manually copy an existing job, or write one from scratch. This led to a higher barrier of entry to users wanting to schedule a job.

## Creating a Job

In order to create a job, you press the same button as before:

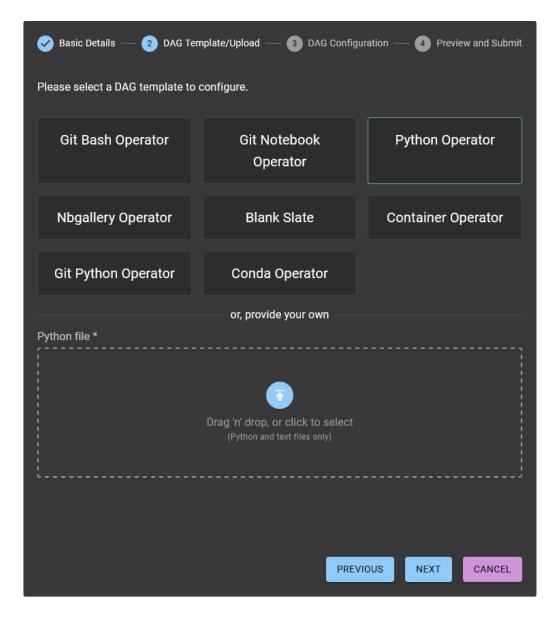


From here, instead of the old drawer, a new dialog will appear:



Similarly to before, you can specify the name of your job, the DAG ID, an optional description, and the classification of the job (if working in a multi-classification deployment). You can also expand the extra fields to add tags and external references, as before.

Next is the optional DAG Template/Upload page. This will allow you to pre-fill the DAG Configuration before editing it, either with a DAG Template provided by spellbook, or a file from your computer.



If you choose a DAG template, the Job Wizard will automatically prefill a number of the fields that a user had to manually fill out previously. Pressing next will move to the DAG Configuration Step.

It isn't necessary to select a template or upload a file. If you want to write a DAG completely from scratch, simply press "Next".

```
✓ Basic Details
                    DAG Template/Upload -
                                                3 DAG Configuration –
                                                                        4 Preview and Submit
        from datetime import datetime, timedelta
        from airflow import DAG
        from airflow.operators.python_operator import PythonOperator
        default_args = {
           'owner': 'Matthew.Rafuse@cyber.gc.ca', # required
            'start_date': datetime(2021, 4, 21), # required
            'email': 'Matthew.Rafuse@cyber.gc.ca',
        dag = DAG(
           dag_id='example_dag',
description='<mark><optional_description></mark>',
            default_args=default_args,
            schedule_interval='<cron_like_schedule>',
            is_paused_upon_creation=False,
            catchup=False
        def python_callable():
            print("Do python stuff here")
        python_operator = PythonOperator(
            dag=dag,
                                                         PREVIOUS
                                                                         NEXT
                                                                                    CANCEL
```

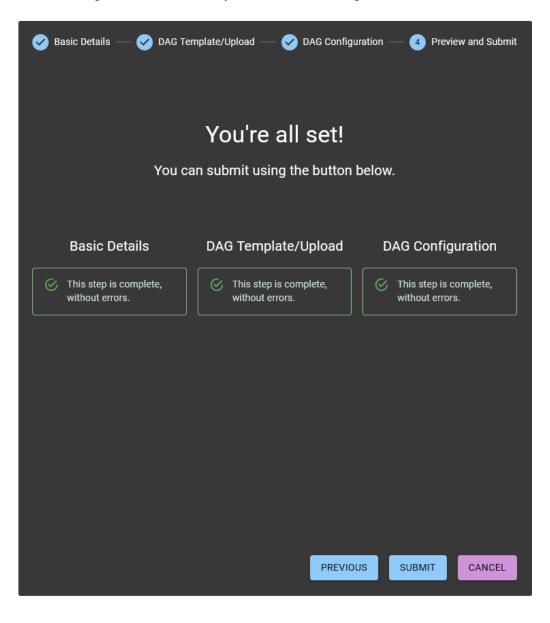
Once you proceed to the DAG configuration step, you'll note that there are a number of highlighted keys you will need to fill out before submitting your DAG. These include things like the crontab schedule, or the task names of the job's tasks. Note that some of these fields are automatically pre-filled, but can be edited, such as the owner, start date and email arguments.

```
dag = DAG(
    dag_id='example_dag',
    description='This is an example DAG',
    default_args=default_args,
    schedule_interval='@daily',
    is_paused_upon_creation=False,
    catchup=False
)

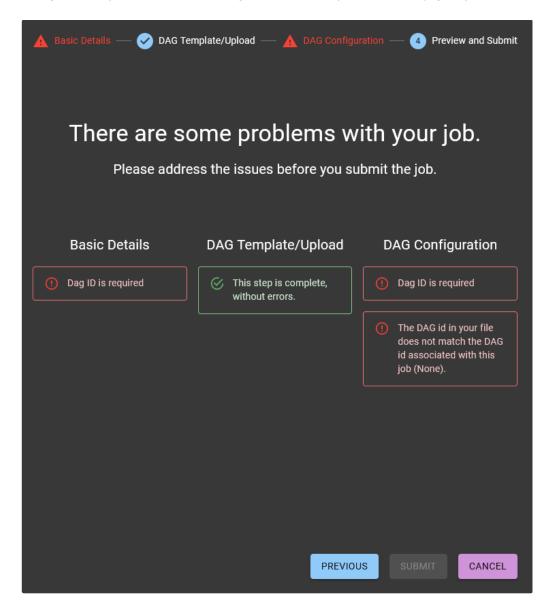
def python_callable():
    # Any imports for this function need to be placed inside this function, not print("Do python stuff here")
    return 'this is a returned xcom value'

python_operator = PythonOperator(
    dag=dag,
    task_id='run_some_python',
    python_callable=python_callable,
    retries=3,
    # Lineage inlets and outlets https://airflow.apache.org/docs/apache-airflow,
    # inlets={
```

Once you have filled out all of the required fields, you can proceed to the Preview and Submit step. Here, the wizard validates your job and ensures there are no outstanding issues. If there are none, you should see the following:



If there are outstanding issues, they will be listed here. Clicking on them will return you to the related page so you can fix them:



Once any issues are resolved, you can submit the job. Congrats, you've successfully used the Job Wizard for the first time!

## Questions?

Any questions about this feature can be asked in the HOGWARTS support chat. If you have a DAG template you'd like to add, or any other suggestions, please let us know there. Thanks!