

## Build Containers Before Uploading to Kubeflow Pipelines

Before uploading the pipeline to Kubeflow Pipelines, be sure to build the component containers so that the latest version of the code is packaged and uploaded as images to the container registry. The code provides a handy bash script to build all containers.

## Compile the Pipeline Using the Kubeflow Pipelines DSL Language

The pipeline code contains a specification on how the components interact with one another. Each component has an output that serves as an input to the next component in the pipeline. The Kubeflow pipeline DSL language `dsl-compile` from the Kubeflow Pipelines SDK is used to compile the pipeline code in Python for upload to Kubeflow Pipelines.

Ensure the Kubeflow Pipelines SDK is installed on the local machine by running

```
# install kubeflow pipeline sdk
pip install https://storage.googleapis.com/ml-pipeline/release/0.1.12/kfp.
tar.gz --upgrade

# verify the install
which dsl-compile
```

Compile the pipeline by running

```
# compile the pipeline
python3 [path/to/python/file.py] [path/to/output/tar.gz]
```

For the sample code, we used

```
python3 crypto_pipeline.py crypto_pipeline.tar.gz
```