



# Enterprise Data Ops Airflow





**Presented by Nam Tonthat**



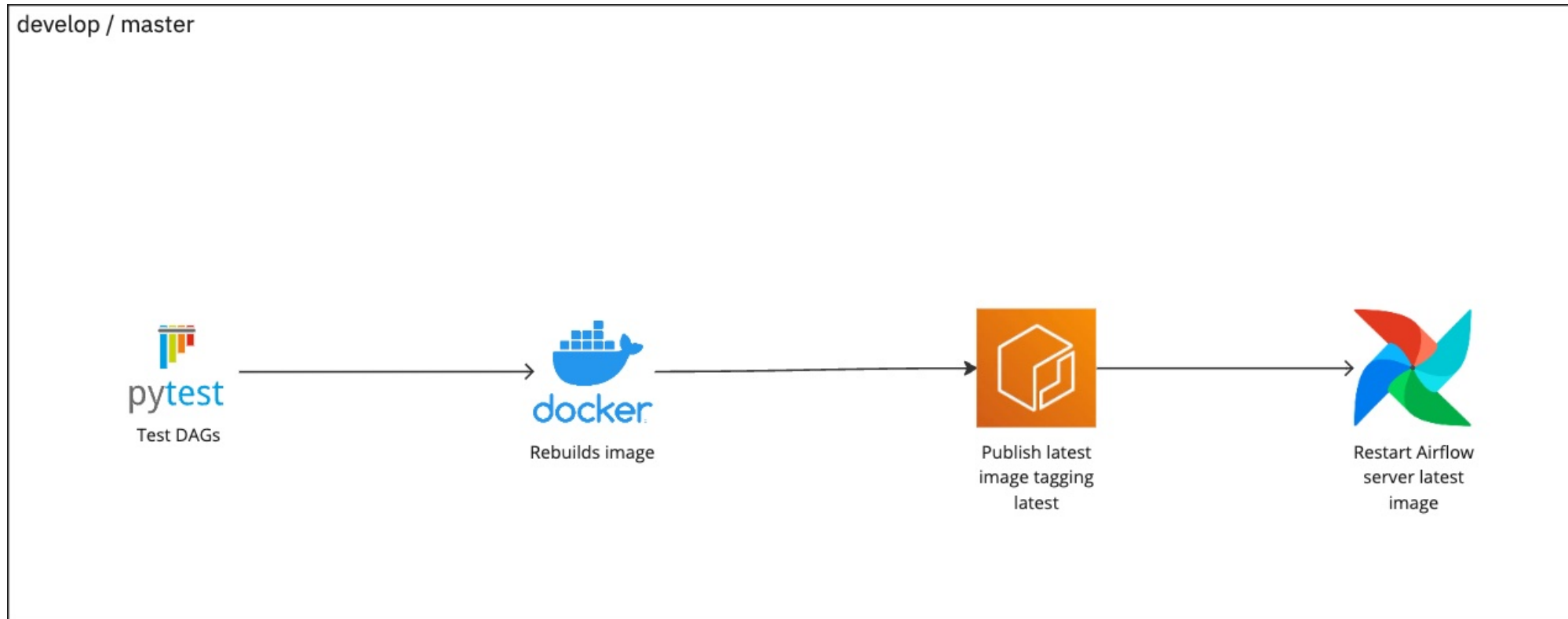
**2023-06-21**

# Agenda

-  CI/CD
  - Present
  - Planned
-  Questions

# Present CI/CD

- Builds a new image for any changes
- Publishes this image ~500 MB each time on updated changes
- Takes 10 minutes for each build

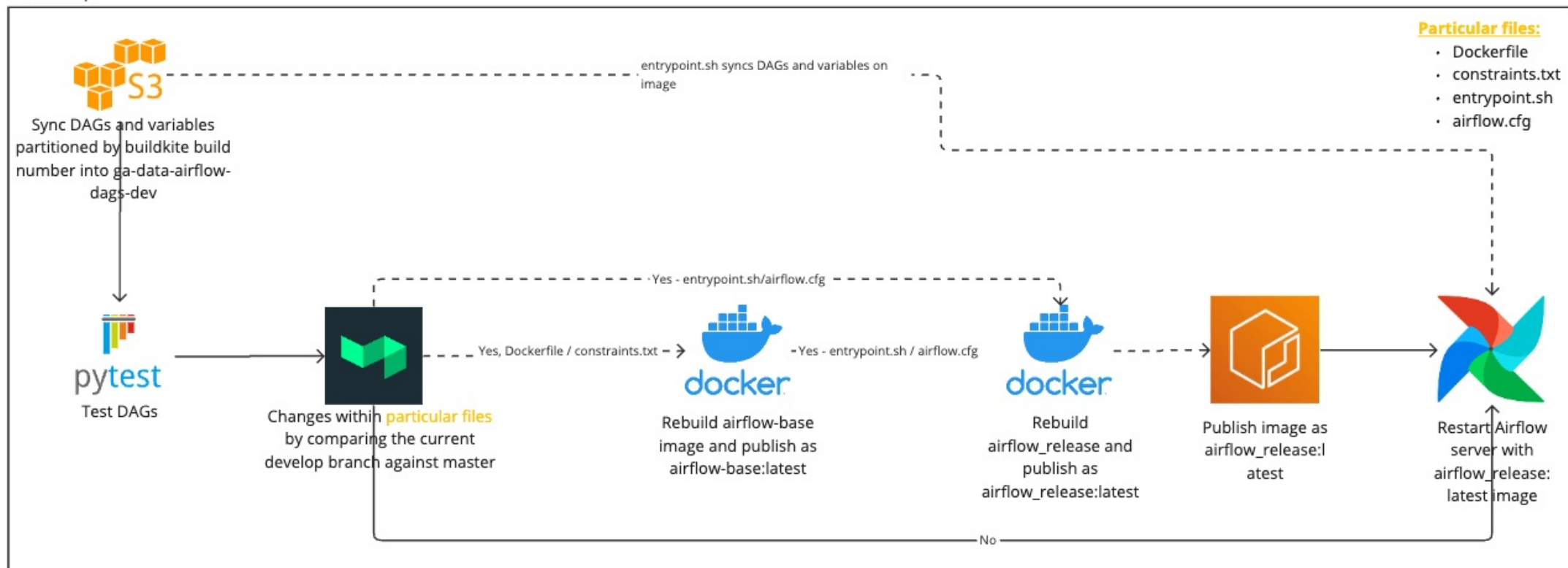


# Planned CI/CD

- Goals:
  - Reduce the time to build by 50%
- Achieved by:
  - i. Sync `DAGs` / `variables` into `ga-data-airflow-dags-{env}` S3 bucket.
  - ii. Splitting the Dockerfile into a multi stage build
    - `airflow_base` : for requirements
    - `airflow_release` : for `entrypoint.sh` / `airflow.cfg` changes
  - iii. Update `entrypoint.sh` using `aws s3 sync` to sync DAGs back
- *Other changes:*
  - Using SEEK's open source software plugins ( `seek-oss/docker-ecr-publish` )

# Planned CI/CD - develop

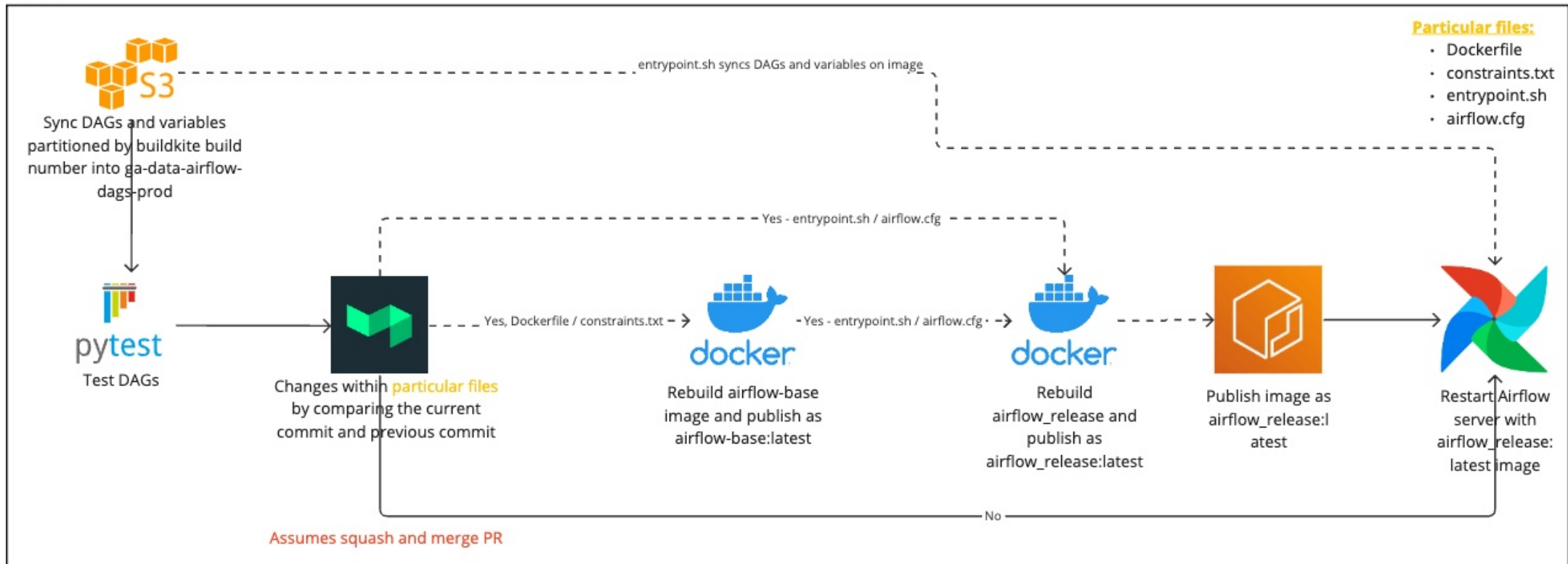
develop



# 🎯 Planned CI/CD - master

Difference between `develop` and `master` is that each PR is a **squash and merge**.

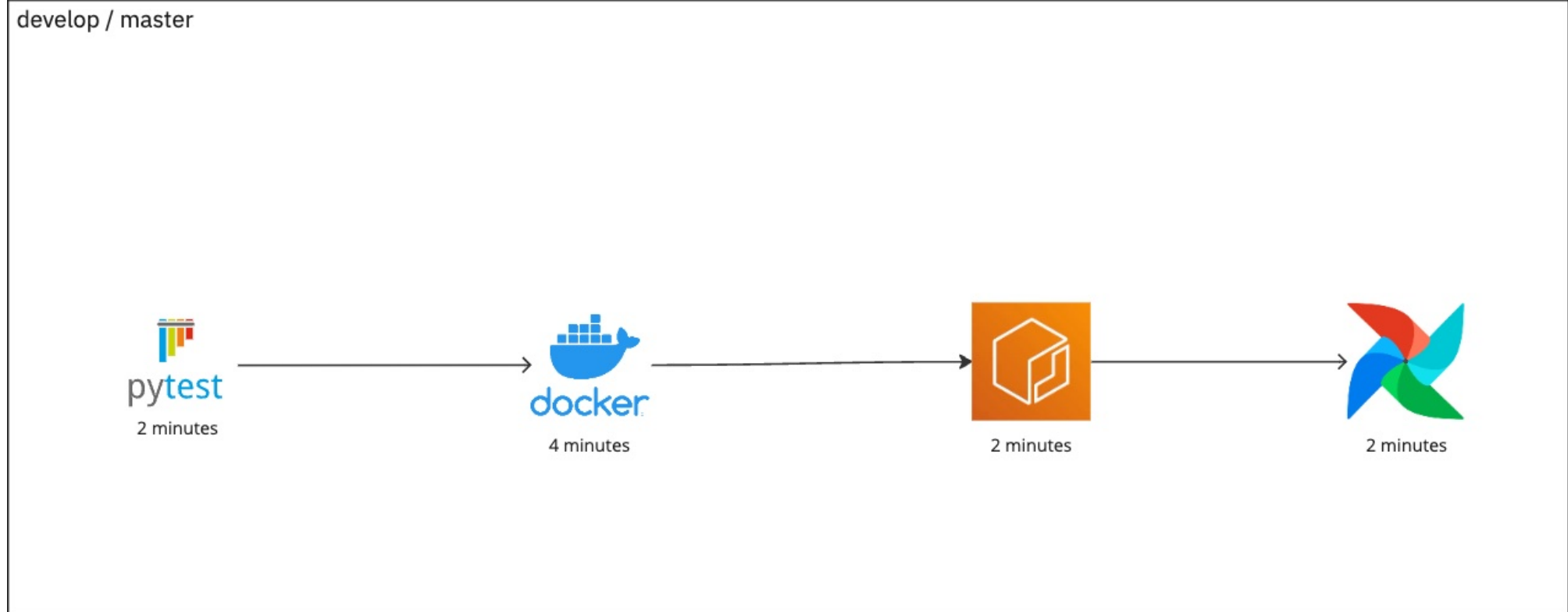
master





# Timing differences - Present CI/CD

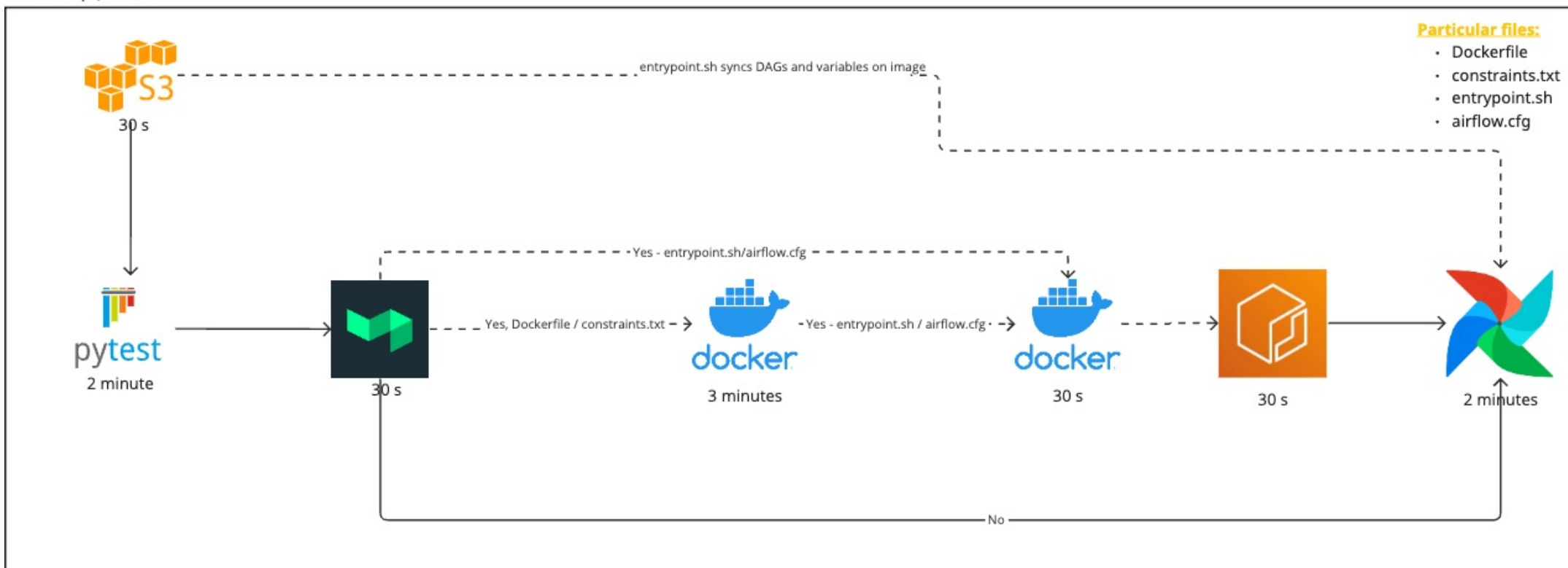
- Build time: 10 minutes



# ⌚ Timing differences - Planned CI/CD

- Build times:
  - 5 minutes for DAG / variable changes (most of the time ~95%)
  - 10 minutes for rebuilding image

develop / master





**? Questions**