

API

This runs the internal and external API endpoints and serves up JSON. It also powers extra worker and background processes. There are a few python packages bundled, such as Flask and SQLAlchemy.

Proxy

The Nginx web server is a reverse proxy web server, pointing to the internal API and the Reporting tool frontend. This is a standard Nginx Docker container with no modifications. This is running on port 80 and port 3007, and redirects web requests to either the API or frontend application.

Frontend

This image serves up HTML via React 16.12. This runs the Reporting tool interface, Workflows and dashboard, along with other interface features. This React application uses the API to send and retrieve data.

Cache

This Redis server is a simple cache and data storage, using a locally stored database file.

Docker Containers	Linux container version	Tech version	Base docker image
API, WORKER	ALPINE 3.11	PYTHON 3.8.1	python:3.8-alpine
FRONTEND	ALPINE 3.11	NODE 13.8.0	node:alpine
PROXY	ALPINE 3.11	NGINX 1.17.8	nginx:alpine
CACHE	ALPINE 3.11	REDIS 5.0.7	redis:alpine