



Docker Compose

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| ☰ Day | Wednesday |
| ☰ Tasks | Run docker compose for tweet_collector and mongoDB containers |

Goal: run docker compose consisting of two containers

- Docker compose is where usefulness/beauty/convenience of docker actually starts to shine.
 - You are rarely going to want to build just a single service/container for something.
- Docker compose is a tool for defining and running multi-container docker applications.
- We define all containers/services in one file:
 - YAML file ("yet another markup language", "YAML ain't markup language")
 - nested, similar to JSON (but it's more readable)
- Inside the docker-compose.yml file you define *services*, each service is equivalent to one `docker run` line / should contain all information that `docker run` contains:
 - image (if building from the Dockerfile)
 - prebuilt image name (if building from a prebuilt image)
 - port mapping
 - volumes to mount
 - environment variables
 - + how they depend on each other

```

version: '3'

services: # here we define all our docker containers

  tweet_collector: # 1st container
    build: tweet_collector/ # Dockerfile is in the tweet_collector folder
    volumes:
      - ./tweet_collector/./app # local_path:container_path
    depends_on:
      - mongodb

  mongodb: # 2nd container
    image: mongo # we run it directly
    ports:
      - 27017:27017 # local port : container port

  # etl_job: # 3rd container

  # postgres: # 4th container

```

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project_folder/ # we run docker compose from this folder
|-- docker-compose.yml # this is the file we wrote above
|-- tweet_collector/
|   |-- Dockerfile
|   |-- requirements.txt
|   |-- tweet_collector.py
|   |-- config.py
|-- etl_job/
|   |-- Dockerfile
|   |-- requirements.txt
|   |-- etl.py

```