DOCKER COMPOSE DOCUMENTATION

Difference between docker and docker compose

Docker is a platform used to build, ship, and run containers. A container is an isolated environment that includes everything needed to run an application, including code, runtime, libraries, and system tools.

Docker Compose is a tool that helps you define and manage **multi-container applications**. It allows you to define the services (containers), networks, and volumes for your application in a single file (docker-compose.yml) and manage them together.

Create a Docker Network

PS D:\Docker_compese> docker network create --driver bridge docker-compose-network df110337d473c90a5b5ddfd3bf335beb05cf62991b79707ee4649988f831778d

Run the Containers Individually

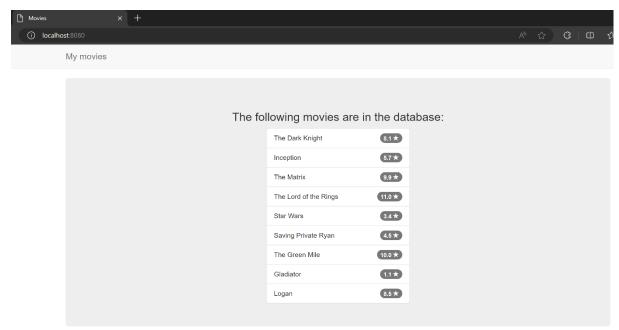
MySQL database container:

PS D:\Docker_compese> docker run -d --name database --net=docker-compose-network -e MYSQL_ROOT_PASSWORD=movie123 koenkk/docker-compose-exercise-database PS D:\Docker_compese>

Run the Flask webapp container:

PS D:\Docker_compose> docker run -d --name webapp --net=docker-compose-network -p 8080:80 koenkk/docker-compose-exercise-webapp Unable to find image 'koenkk/docker-compose-exercise-webapp:latest' locally latest: Pulling from koenkk/docker-compose-exercise-webapp bd8f6a7501cc: Pull complete 44718e6d535d: Pull complete

check if the webapp is running



• Create a docker-compose.yml file that defines both the MySQL database and the webapp

```
docker-compose.yml
     version: '1'
     services:
       database:
         image: koenkk/docker-compose-exercise-database
         container_name: mysql
         environment:
          MYSQL_ROOT_PASSWORD: movie123
         networks:
         - docker-compose-network-250
       webapp:
         image: koenkk/docker-compose-exercise-webapp
         container name: mywebapp
         ports:
         - "8081:80"
         depends_on:
          - database
         networks:
         - docker-compose-network-250
20
     networks:
       docker-compose-network-250:
       driver: bridge
```

• Start both the MySQL database and the webapp containers using Docker Compose



· Check if the web app is running

