



Operating Systems Lab

Docker Compose Task

Instructor: M. Ahsan

Task-1 Instructions:

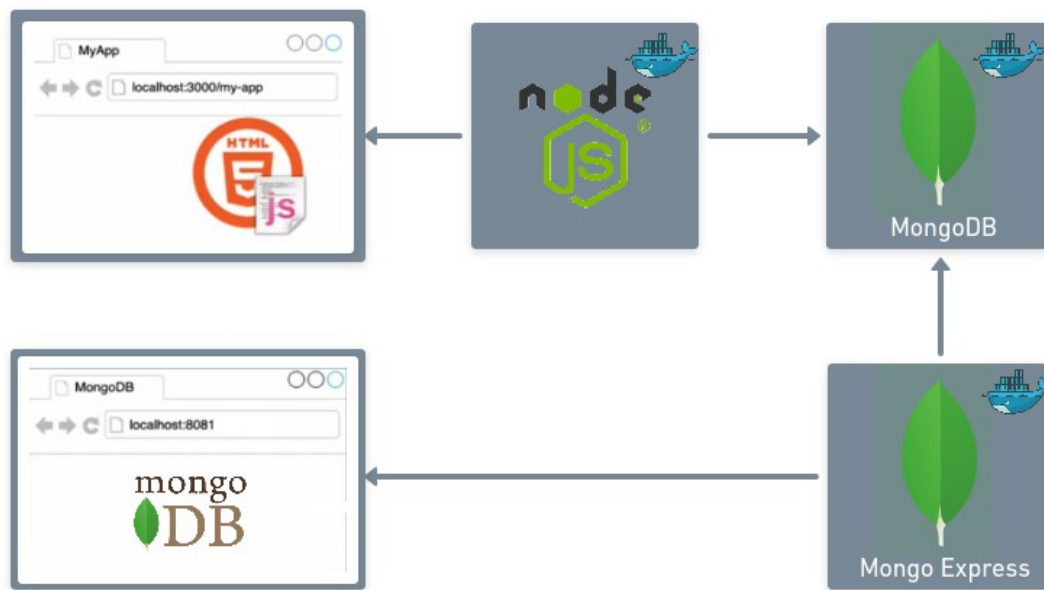
Step-1:

In this task you are going to deploy Node Application using docker and docker compose. In very first you have to run the mongo and mongo-express containers and make sure you are able to access the mongo-express through browser and take the screenshot for this. To run these two containers I have provided the compose file for this you have to make these containers up. Create database name as user-account and create collection name as users.

Step-2:

Once both mentioned containers are up now you have to build the image for node app, to build the app image I have provided Dockerfile for this. Once image is build now run the container of this app and make sure you have used proper ports. Once app container starts now access this app on your browser and take the screenshot of the profile. Now edit profile and put your name, email and interests and save profile and take the screenshot of your information. Now now go to the database from browser and you will be able to see your updated information in database, take the screenshot of this information from database. Now run the “docker ps” command the take the screenshot of your terminal and put all the screenshots in single PDF under task-1 section. Source code for the app and other files are attached.

Your whole setup should look like following diagram.



Task-2 Instructions:

In this task you are going to deploy your python application using docker. Source code for the application and the docker configuration files are also attached in zip file. This app is simple python flask app which counts the number of refresh of the page and store data in redis.

Step-1:

In first step build the image using Dockerfile(attached in zip) and spin the new container using docker-compose(compose file attached in zip). Once container starts try to access this app in your browser using proper port number which is mentioned in compose file. Once app open in browser take the screenshot of the initial message of the app on browser.

Step-2:

Now app is running now refresh your page 10 times and see the app response one 10 refresh completed take the screenshot of the screen.

Now attach all the screenshots in PDF and submit.

Note: For both tasks once all containers are running take the screenshot of your running containers status from terminal and put screenshot of each task separately. Also make sure you attempt this task by yourself it will help you a lot in future, if have any issue or face any error post on classroom will respond there.

Copied task will be awarded with **ZERO** without any justification.