

Docker Assignment – 2

Step:1

Logic to Solve the assignment:

First I thought to take ubuntu image and install mysql in it and then create user and all. But that process took 2 days and nothing came in output.

So I decided to use mysql image. Learned about it from google to set ENV variables and .sql file that get initialized while starting the mysql container. The “.sh .sql .sql.gz “ get executed first that are in the “docker-entrypoint-initdb.d”. So decided to copy .sql file in “docker-entrypoint-initdb.d”.

Step:2

Explanation of Dockerfile

FROM mysql:latest => This is used to fetch the latest image of mysql from docker hub.

LABEL maintainer = "Kalyani Vetal- 18161" => To set the author field of the docker image

ENV MYSQL_ROOT_PASSWORD=root => while initializing the entrypoint-init.d it will set the root password of mysql container as ‘root’

Similarly for ENV MYSQL_USER=pucsd => creating a mysql user pucsd while setting the database properties

ENV MYSQL_PASSWORD=pucsd => to set the password for the pucsd user as password=(‘pucsd’)

ENV MYSQL_DATABASE=pucsdStudents => creating database pucsdStudents

COPY database.sql ./docker-entrypoint-initdb.d => to copy the database.sql file to the docker-entrypoint-initdb.d in this dir “docker-entrypoint-initdb.d” the all files with “.sh” , “.sql”, “.sql.gz” get executed first while starting the service.

EXPOSE 3306 => Mapping of the mysql port on docker container with host machine and start the container on port 3306.

You need to stop mysql service on host machine before doing this.

GIT REPOSITORY LINK : [Click here](#)