Assignment 3

Docker

Q.1. Create a directory by name myapp. Go to the directory. Create a simple java program by name calc.java which will take 2 numbers from the user and display the result of addition and multiplication. Create a file by name Dockerfile. Type following in the file.

FROM ubuntu

RUN apt update -y

RUN apt install default-jre -y

RUN mkdir /myapp

COPY calc.java /myapp/

CMD [ “/bin/java” , “/myapp/calc.java” ]

Save the file.

Now create image of your application by using following command.

docker build -t myapp . # Don’t forget dot at the end.

Once the process finishes. Check if the image is created using command - docker images.

Now run the container using your image.

docker run --rm -ti myapp

Q.2. Create a directory. Go to that directory. Create your index.html file that will display your name and PRN number. Create a dockerfile as in question1. Add following to the file.

FROM httpd

COPY index.html /usr/local/apache2/htdocs/

Save the file. Use docker build command to build your application image.

docker build -t webapp1 . # Don’t forget dot at the end.

Now run the container using above image and verify.

docker run --name web3 -p 8000:80 -d webapp1

Now go to the browser and check by typing <http://localhost:8000>