## important Docker commands

* to build docker imgae from docker file --------> docker build -t vishal:1.0 . <"." dot and location of docker file if present in pwd give "." i.e. dot>
* to check available docker images build -------> docker images
* to run container ---> docker run -d --name <containername optional> -p 8000:8080 <image name with version e.g visha:1.0>
* to check running containers----------------> docker ps
* to check running and stopped all conatainers------------> docker ps -a
* to go inside a running container ------------> docker exec -it <container name> bash
* to check the status of running container like memory consumption and debug etc.----> docker stats
* to copy some file from local machine i.e. docker host to inside the conatiner-------> docker cp localfile-with locatio <conatinername>:location
* to copy some file from inside the conatiner to local machine i.e host -------> docker cp <conatinername>:location/filename location of dir in local if pwd give "." i.e. dot
* to remove image -------> docker rmi <image-id of the image>
* to stop container -----> docker stop <container name>
* to remove container ---> docker rm <container name>
* to create alias of image it will just give another name to same image -----> docker tag <image name> <alias>
* to login to docker ----🡪 docker login
* to pull code from docker registry-------🡪 docker pull vishaltherock/my-web:1.0
* To mount volume in local machine run the container with below command

docker run -d --name dhemus -p 8013:8080 -v /home/labsuser/new:/etc/lala exp:1.0

Notes:

* If multiple docker files are present in one directory shall be named as below

Dockerfile.apple1 Dockerfile.orange2 Dockerfile.pine4 Dockerfile.app1

* TO CHECK THE OS of any LINUX BASED MACHINE in root Directory---> cat /etc/os-release
* If COPY command is not specified in Docker file all the data from working directory where Docker file is present will be copied into the container including the Dockerfile itself.

## Dockerfile

|  |
| --- |
| FROM ubuntu:20.04  RUN apt update && apt install python3 -y && apt install python3-pip -y  RUN pip3 install flask  COPY app.py /opt  EXPOSE 8080  CMD ["python3","/opt/app.py"] |

## 3. Application code

|  |
| --- |
| from flask import Flask  import os  app = Flask(\_\_name\_\_)  @app.route('/')  def hello():  return ('\nHello Container World! I have been seen %s times and my hostname is %s.\n\n')  if \_\_name\_\_ == "\_\_main\_\_":  app.run(host="0.0.0.0", port=8080, debug=True) |