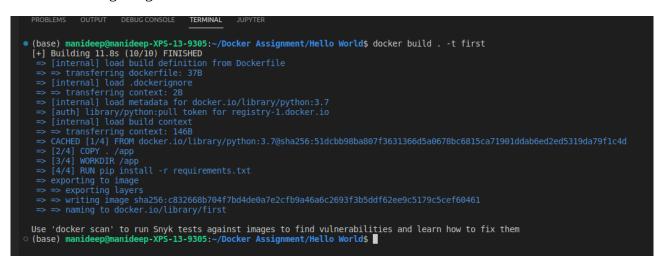
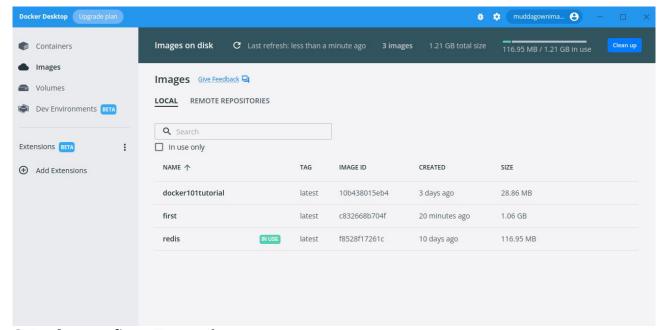
Docker Assignment:

1. docker build . -t helloworld: To build an image we need to run the above command, without creating images we cannot create container.





- **2. Docker run first :** To start the container
- **3. Docker images:** we can display the images that are present in our docker desktop. So here we can see the first image that I have created. It consists of all the files to run the docarised application. where you will have **base image** to start.

- 4. **Docker ps**: It show all the live containers that are running
- **5. docker ps -a**: It shows all the containers that are stopped and running
- 6. **docker run pensive_blackburn :** To run the container
- docker ps command to see the live containers that are running

7. **docker stop pensive_blackburn:** To stop the live container

```
contribute 1 public control of the c
```

8. docker rm pensive_blackburn: To remove the container. Before removing the container we need to stop it first and then remove

```
Classe) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker rm pensive_blackburn
consideration in the container before attempting removal or for emove
classe) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker rm pensive_blackburn
classe) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker rm pensive_blackburn
classe) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker rm pensive_blackburn
classe) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
first latest classe680704f 20 minutes ago 1.0608
dockerlollutorial latest 100430015cb4 3 days ago 28.9MB
redis latest 100430015cb4 3 days ago 28.9MB
(Dase) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker ps
COMTAINER ID IMAGE COMPAND CREATED SIZE
COMTAINER ID IMAGE COMPAND CREATED STATUS PORTS NAMES
(Dase) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker ps
COMTAINER ID IMAGE COMPAND CREATED STATUS PORTS NAMES
(Dase) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker ps
COMTAINER ID IMAGE COMPAND CREATED STATUS PORTS NAMES
(Dase) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker ps
COMTAINER ID IMAGE COMPAND CREATED STATUS PORTS NAMES
(Dase) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker ps
COMTAINER ID IMAGE COMPAND CREATED STATUS PORTS NAMES
(Dase) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker ps
COMTAINER ID IMAGE COMPAND CREATED STATUS PORTS NAMES
(Dase) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker ps
COMTAINER ID IMAGE COMPAND CREATED STATUS PORTS NAMES
(Dase) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker ps
COMTAINER ID IMAGE COMPAND CREATED STATUS PORTS NAMES
(Dase) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker ps
COMTAINER ID IMAGE COMPAND CREATED STATUS PORTS NAMES
(Dase) manideep@manideep=NS-13-9305:-/Docker Assignment/Hello Worlds docker p
```



9. **docker run p 8000:5000 first**: Changing port from 8000 to 5000. here first is my image name.

```
redis latest f85261726Lt 10 days app 117MB
(base) manideep@manideep.XPS-13-3905:-/Docker Assignment/Hello World$ docker ps
CONTAINER ID IMAGE COMMAND
CONTAINER ID IMAGE COMMAND
CONTAINER ID IMAGE COMMAND
A Serving Flask app 'app'
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server, Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://172.17.0.3:5000
* Running on http://172.17.0.3:5000
Press CTRL+C to quit

In 1, Col1 Spaces 4 UTF-8 CRLF Dockerfile
```

10. **docker history first**: It will show detailed information about the image

```
Press CIRL+C to quit

"(Chase) manideepmanideep-XPS-13-9305:-/Docker Assignment/Hello World$ docker history first

COMMENT

COME
```

11. **docker run -d first:** our sample application is a web server and we should not have to have our terminal connected to the container.

Detached mode will be very helpful when we are using Linux. because in windows we can open number of terminals. so that you can run more commands which are needed.

```
(base) manideep@manideep-XPS-13-9305:~/Docker Assignment/Hello World$ docker images
                                    IMAGE ID
c832668b704f
 REPOSITORY
                         TAG
                                                      CREATED
                                                                          1.06GB
                                                      48 minutes ago
  first
                         latest
 docker101tutorial
                                     10b438015eb4
                         latest
                                                      3 days ago
                                                                          28.9MB
                                     f8528f17261c
                                                      10 days ago
                                                                           117MB
                         latest
• (base) manideep@manideep-XPS-13-9305:~/Docker Assignment/Hello World$ docker run -d first bd948743a655ddbe1a71c076ff46fb794e73e439e1883b87b530d945496d25d6
 (base) manideep@manideep-XPS-13-9305:~/Docker Assignment/Hello World$ [
```

12. **docker pull hello-world**: After deleting the images we can get back in two ways by pulling and the other is running

running: docker run hello-world so that it will be downloaded from the docker hub (so it is used when we want to run a container)

Pull an Image: docker pull hello-world (so it is used when we want only image)

```
Status: Downtoaden newer image in netto-world:tatest
docker.io/library/hello-world:latest
(base) manideep@manideep-XPS-13-9305:~/Docker Assignment/Hello World$ docker run hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:

1. The Docker client contacted the Docker daemon.

2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
(amd64)

3. The Docker daemon created a new container from that image which runs the
executable that produces the output you are currently reading.

4. The Docker daemon streamed that output to the Docker client, which sent it
to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

13. **docker rmi hello-world:** To remove the image firstly we need to stop the container or delete the container.

```
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/

(base) manideep@manideep-XPS-13-9305:-/Docker Assignment/Hello World$ docker rmi hello-world
Error response from daemon: conflict: unable to remove repository reference "hello-world" (must force) - container 60094154334e is using
(base) manideep@manideep-XPS-13-9305:-/Docker Assignment/Hello World$ docker rm hello-world
Error: No such container: hello-world
(base) manideep@manideep-XPS-13-9305:-/Docker Assignment/Hello World$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
(base) manideep@manideep-XPS-13-9305:-/Docker Assignment/Hello World$ docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
60094154334e hello-world "/hello" 5 minutes ago Exited (0) 5 minutes ago exciting_zhukovsky edae92ec893b redis "docker-entrypoint.5..." 2 days ago Exited (0) 5 minutes ago 6379/tcp redis
(base) manideep@manideep-XPS-13-9305:-/Docker Assignment/Hello World$ docker rm exciting_zhukovsky
exciting_zhukovsky
(base) manideep@manideep-XPS-13-9305:-/Docker Assignment/Hello World$ docker rm exciting_zhukovsky
Untagged: hello-world:atest
Untagged: hello-world:atest
Untagged: hello-world:batest
```

14. docker run python: 3.8.0: To run a particular version of the image we use tag

```
● (base) manideep@manideep-XPS-13-9305:-/Docker Assignment/Hello World$ docker rmi hello-world Untagged: hello-world:datest Untagged: hello-world@sha256:18a657d0cclc7d0678a3fbea8b7eb4918bba25968d3elb0adebfa7lcaddbc346 Deleted: sha256:feb5d0fea6a5e9506ba39589879d8c2b25965ba48de054caab5ef35d6cfb3412 Deleted: sha256:e07eelbaac5fae6a26f30cabfc54a3d63d9c2f96ad96cec4ca393359 ● (base) manideep@manideep-XPS-13-9305:-/Docker Assignment/Hello World$ docker run python.3.8.0 Unable to find image 'python.3.8.0:latest' locally docker: Error response from daemon: pull access denied for python.3.8.0, repository does not exist or may require 'docker login': denied see 'docker run --help'. ● (base) manideep@manideep-XPS-13-9305:-/Docker Assignment/Hello World$ docker run python:3.8 Unable to find image 'python:3.8' locally 3.8: Pulling from library/python f606d8928ed3: Already exists 47d0815c6a45: Already exists 47d0815c6a45: Already exists 572f7a256d3: Already exists 572f7a256d3: Already exists 8f7d095258955: Already exists 8f7d095258955: Already exists 8f7d095258955: Already exists 8d20751451: Pull complete dc4fe6dbfdaf: Pull complete 0cd7d3e2da99: Pull complete Digest: sha256:1le6a1575d61c5534e2cb711e58f1d6616847370b1337a0605bba751c9fbca37 Status: Downloaded newer image for python:3.8 ● (base) manideep@manideep-XPS-13-9305:-/Docker Assignment/Hello World$ ■
```

15. docker run -d helloworld: To run a container in detached mode

ASSIGNMENT 2:

docker pull hello-world : After deleting the images we can get back in two ways by pulling and the other is running

running: docker run hello-world so that it will be downloaded from the docker hub (so it is used when we want to run a container)

Pull an Image: docker pull hello-world (so it is used when we want only image)

```
Status: Downtoaded Newer Image 107 Netto-World: latest docker.io/library/hello-world:latest (base) manideep@manideep-XPS-13-9305:~/Docker Assignment/Hello World$ docker run hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub. (amd64)
3. The Docker daemon created a new container from that image which runs the executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
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https://hub.docker.com/
For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

ASSIGNMENT 3:

- docker login
- enter password
- docker build . t muddagownimanideep/hello-app
- docker images
- docker run muddagownimanideep/hello-app
- docker push muddagownimanideep/hello-app

