

# Dockers commands.

## 1. docker --version

Checking docker availability and version

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER  COMMENTS

(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ docker --version
Docker version 20.10.17, build 100c701
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ █
```

## 2. docker images

Checking all current available images on docker.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER  COMMENTS

Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ docker images
REPOSITORY          TAG          IMAGE ID          CREATED          SIZE
cube_fun            latest       ba8e53fe81bd     46 hours ago    1.06GB
manuviju/cube_fun   latest       ba8e53fe81bd     46 hours ago    1.06GB
<none>              <none>       dfb1a54ae209     47 hours ago    1.06GB
redis               latest       f8528f17261c     7 days ago      117MB
docker/getting-started latest       cb90f98fd791     6 months ago    28.8MB
hello-world         latest       feb5d9fea6a5     12 months ago   13.3kB
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ █
```

## 3. docker pull docker/getting-started

Pulling an image (here getting-started) from the docker hub

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER  COMMENTS

(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ docker pull docker/getting-started
Using default tag: latest
latest: Pulling from docker/getting-started
Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae
Status: Image is up to date for docker/getting-started:latest
docker.io/docker/getting-started:latest
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ █
```

#### 4. docker run -d -p 80:80 docker/getting-started

Running the image from the docker providing the port number.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER COMMENTS

(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ docker run -d -p 80:80 docker/getting-started
2491270f13c0bce25567a3e5db34646d9f0b5b20b38e9184837b44a9b1a26a2b
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ █
```

#### 5. docker ps

Showing the current running docker container into the system

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER COMMENTS

Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                    NAMES
2491270f13c0   docker/getting-started  "/docker-entrypoint...."  3 minutes ago  Up 3 minutes  0.0.0.0:80->80/tcp       mystifying_hugle
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ █
```

#### 6. docker stop 2491270f13c0

Stopping the running docker by docker ID and checking status

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER COMMENTS

(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ docker stop 2491270f13c0
2491270f13c0
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                    NAMES
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ █
```

#### 7. docker rmi docker/getting-started

Trying to delete the docker image but its showing error and asking to remove forcefully.

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL ... bash + - [ ] [ ] [ ]
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ docker rmi docker/getting-started
Error response from daemon: conflict: unable to remove repository reference
"docker/getting-started" (must force) - container 2491270f13c0 is using its
referenced image cb90f98fd791
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ █

```

## 8. docker rmi -f docker/getting-started

Deleting image from docker forcefully

```

Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ docker rmi -f docker/getting-started
Untagged: docker/getting-started:latest
Untagged: docker/getting-started@sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae
Deleted: sha256:cb90f98fd791dd49f09903cef3eb2245646b4d76b093825ea78e0f7bb8fb3403
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ docker images
REPOSITORY          TAG         IMAGE ID      CREATED       SIZE
cube_fun            latest      ba8e53fe81bd  46 hours ago  1.06GB
manuviju/cube_fun   latest      ba8e53fe81bd  46 hours ago  1.06GB
<none>              <none>      dfb1a54ae209  47 hours ago  1.06GB
redis               latest      f8528f17261c  7 days ago    117MB
hello-world         latest      feb5d9fea6a5  12 months ago 13.3kB
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers
$ █

```

## 9. docker build -t my\_dockerfile .

Building docker image with a image name my\_dockerfile

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER COMMENTS
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers/Hello World
$ docker build -t my_dockerfile .
[+] Building 35.2s (10/10) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 31B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/python:3.7
=> [auth] library/python:pull token for registry-1.docker.io
=> [internal] load build context
=> => transferring context: 305B

```

## 10. docker images

Here we can check the newly built image in our docker

```
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers/Hello World
$ docker images
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
my_dockerfile       latest      f09350878d28  2 minutes ago  1.06GB
cube_fun            latest      ba8e53fe81bd  47 hours ago   1.06GB
manuviju/cube_fun    latest      ba8e53fe81bd  47 hours ago   1.06GB
<none>              <none>      dfb1a54ae209  2 days ago     1.06GB
redis               latest      f8528f17261c  7 days ago     117MB
hello-world         latest      feb5d9fea6a5  12 months ago  13.3kB
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers/Hello World
```

## 11. docker build -t manuviju/my\_dockerfile .

Creating docker image for pushing it into docker hub.

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER  COMMENTS

CONTAINER ID  IMAGE      COMMAND      CREATED    STATUS    PORTS    NAMES
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers/Hello World
$ docker build -t manuviju/my_dockerfile .
[+] Building 3.3s (10/10) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 31B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/python:3.7
=> [auth] library/python:pull token for registry-1.docker.io
=> [internal] load build context
=> => transferring context: 116B
=> [1/4] FROM docker.io/library/python:3.7@sha256:51dcbb98ba807f3631366d5a0f
=> CACHED [2/4] COPY . /app
```

We can see the file is created under the docker repository name.

```
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers/Hello World
$ docker images
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
my_dockerfile       latest      f09350878d28  13 minutes ago  1.06GB
manuviju/my_dockerfile latest      f09350878d28  13 minutes ago  1.06GB
cube_fun            latest      ba8e53fe81bd  47 hours ago   1.06GB
manuviju/cube_fun    latest      ba8e53fe81bd  47 hours ago   1.06GB
<none>              <none>      dfb1a54ae209  2 days ago     1.06GB
redis               latest      f8528f17261c  7 days ago     117MB
hello-world         latest      feb5d9fea6a5  12 months ago  13.3kB
```

## 12. docker push manuviju/my\_dockerfile:latest

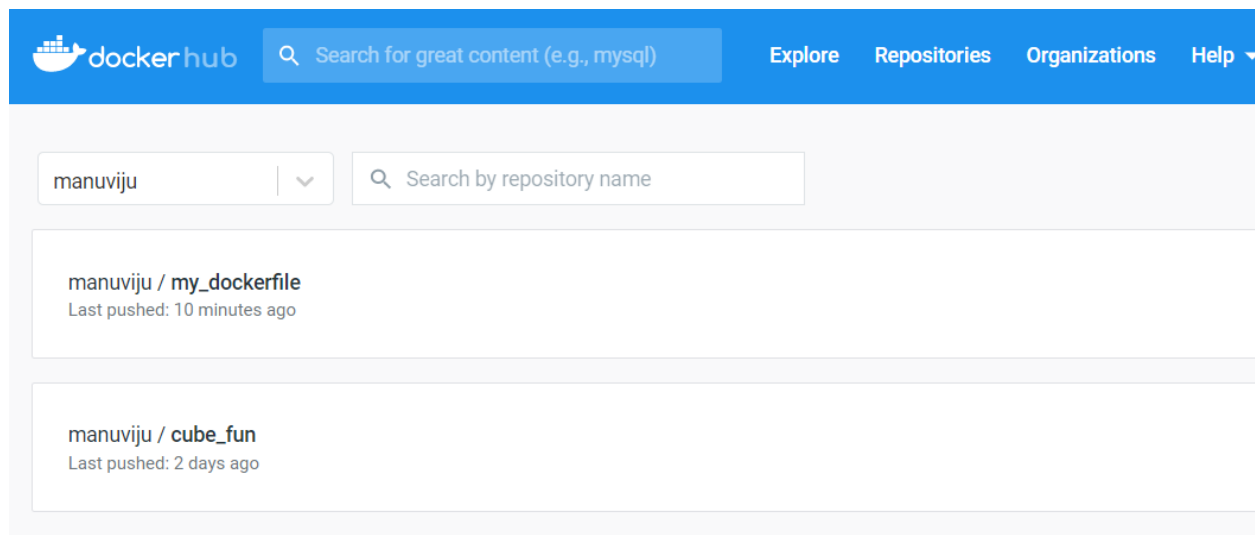
Pushing the file into docker hub, with a latest tag.

```

(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inur
$ docker push manuviju/my_dockerfile:latest
The push refers to repository [docker.io/manuv
15309a45abbd: Pushed
5f70bf18a086: Mounted from manuviju/cube_fun
36c84fc99ca2: Pushed
4cfc86a86dc9: Mounted from library/python
634bb2b2ca8e: Mounted from library/python
80bc379fe03f: Mounted from library/python
0c7daf9a72c8: Mounted from manuviju/cube_fun
75ba02937496: Mounted from manuviju/cube_fun
288cf3a46e32: Mounted from manuviju/cube_fun
186da837555d: Mounted from manuviju/cube_fun
955c9335e041: Mounted from manuviju/cube_fun
8e079fee2186: Mounted from manuviju/cube_fun
latest: digest: sha256:8fa34093295726209db6029:
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inur
$ █

```

Showing it in the docker hub repository



### 13. docker logs 9910d4b63ac0

Checking live tail of container log's by providing container ID

```

Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers/Hello World
$ docker logs 9910d4b63ac0
* 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 :
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.17.0.2:5000
Press CTRL+C to quit
(base)

```

### 14. docker images -a

Showing all images present in the machine

```
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers/Hello World
$ docker images -a
REPOSITORY          TAG          IMAGE ID      CREATED        SIZE
manuviju/my_dockerfile  latest      f09350878d28  41 minutes ago  1.06GB
my_dockerfile        latest      f09350878d28  41 minutes ago  1.06GB
cube_fun             latest      ba8e53fe81bd  47 hours ago   1.06GB
manuviju/cube_fun    latest      ba8e53fe81bd  47 hours ago   1.06GB
<none>              <none>      dfb1a54ae209  2 days ago     1.06GB
redis                latest      f8528f17261c  7 days ago     117MB
hello-world          latest      feb5d9fea6a5  12 months ago  13.3kB
(base)
```

## 15.docker kill 9910d4b63ac0

Stopping a specified container forcefully

```
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers/Hello World
$ docker kill 9910d4b63ac0
9910d4b63ac0
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers/Hello World
$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED   STATUS    PORTS   NAMES
(base)
Manoj Workbook@DESKTOP-G4ED8RQ MINGW64 /d/inuron/dockers/Hello World
$ █
```