1. Execute following operations in Docker:
2. Create a docker container for Hadoop.

$ sudo docker pull sequenceiq/hadoop-docker:2.7.1

$ sudo docker run -it sequenceiq/hadoop-docker:2.7.1 /etc/bootstrap.sh -bash

$ iske aage shayad browser ke address pe jana hai bc bsnl ki maka bohot time lagta hai download hone mei.

1. Execute a web application in a ubuntu docker container.

$ sudo docker run –it ubuntu:14.04

Inside the container run the following commands

# apt-get update

# apt-get install python or apt-get install python2.7

# apt-get install python-flask

Or

# apt-get install python-pip

# pip install flask

Now make a file, <filename>.py and write a code of hello world , etc (It is given on the flask site. )

# ifconfig

# python <filename>.py

Then go to the browser at the address shown in cmd, you will see the output. Here “Hello World” will be the output.

# Next thing is to commit, which we will see next.

1. Commit a docker

When you run an image, it becomes a container.

Open a new terminal and type

(This above option is a safe option. Other option is to press ctrl + p + q at the same time just like you do alt + ctrl + del, it will take you out of the running container and you will be of course on the same terminal. But be cautious with this option, because you might lose whatever you have downloaded so far if done wrong.)

But for now open a new terminal, type

$ sudo docker ps –al // It shows the running containers

copy the containerID of the container that you are running, probably it would be the first one with Image–name ubuntu:14.04.

$ sudo docker commit <containerID> <any\_name\_of\_your\_choice>

Any name is the image that will form after the commit.

$ sudo docker images

You will now see the image that you just created.

(So,

Image is: static object that resides in the storage area.

Container is: A running instance of an image.)

1. Execute following operations on Docker:
2. Create a docker group and add a user

This is done at the time of installation of the docker to run the docker commands without using sudo at the beginning. (Sometimes it doesn’t work, but it doesn’t matter. Then you need to find some workaround for that.)

Add the docker group if it doesn't already exist:

$ sudo groupadd docker

Add the connected user "${USER}" to the docker group. Change the user name to match your preferred user:

$ sudo gpasswd -a ${USER} docker

Restart the Docker daemon:

$ sudo service docker restart

If you are on Ubuntu 14.04 and up use docker.io instead:

$ sudo service docker.io restart

(source stackoverflow)

1. Run a helloworld

$ sudo docker run –it hello-world

1. Commit a docker

$ same as described above bc kitne baar.