Docker Tutorials

Docker is a technology that helps you to test your project in a vitual machine before you deploy it to the server. It also helps you to run different os application on a single operating system. It just like genymotion in android studio. But Docker gives you the opportunity to run all kinds of application and on a single os and not only android.

Docker Container

Docker container gives you the opportunity to divide a single operating system like windows to different containers where one will run linus, the other will run mack, and the other will run android. So, if you have a single windows laptop, with the help of docker containers you can run apps of all OS in that single laptop.

How To Install Docker

To install docker, visit the docker website and follows the instruction there to get started. You simple need to download “docker desktop” app and get started.

Then open the docker desktop app and check the version to see if everything is working alright.

To check your docker version, open cmd and use:

Docker version

After typing the above, you need to see something like below. If you see only the client server without the engine, then it not successfully installed.

Client:

Cloud integration: 1.0.14

Version: 20.10.6

API version: 1.41

Go version: go1.16.3

Git commit: 370c289

Built: Fri Apr 9 22:49:36 2021

OS/Arch: windows/amd64

Context: default

Experimental: true

Server: Docker Engine - Community

Engine:

Version: 20.10.6

API version: 1.41 (minimum version 1.12)

Go version: go1.13.15

Git commit: 8728dd2

Built: Fri Apr 9 22:44:56 2021

OS/Arch: linux/amd64

Experimental: false

containerd:

Version: 1.4.4

GitCommit: 05f951a3781f4f2c1911b05e61c160e9c30eaa8e

runc:

Version: 1.0.0-rc93

GitCommit: 12644e614e25b05da6fd08a38ffa0cfe1903fdec

docker-init:

Version: 0.19.0

GitCommit: de40ad0

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FROM node:alpine

COPY . /app

WORKDIR /app

CMD node app.js

docker build -t justiceankomah/justiceapps:latest // build an image file ( docker build -t <username>/<repository>:<tag> . )

docker image ls // list all the docker images

docker run hellow-docker // run an image file (docker run imagefileName)

docker push justiceankomah/justiceapps:latest // to push it to your remote repository ( docker push <username>/<repo>:<tag> ) (or use the desktop app)

play with docker website commands:

docker pull justiceankomah/justiceapps // to pull a remote repository (justiceankomah/justiceapps )

docker run justiceankomah/justiceapps // run the image file in the repository (justiceankomah/justiceapps )