Docker Dockerfile

A Dockerfile is a text document that contains commands that are used to assemble an image. We can use any command that call on the command line. Docker builds images automatically by reading the instructions from the Dockerfile.

The docker build command is used to build an image from the Dockerfile. You can use the -f flag with docker build to point to a Dockerfile anywhere in your file system

# docker build -f /path/to/a/Dockerfile

## **Dockerfile Instructions**

The instructions are not case-sensitive but you must follow conventions which recommend to use uppercase.

Docker runs instructions of Dockerfile in top to bottom order. The first instruction must be **FROM** in order to specify the Base Image.

A statement begin with # treated as a comment. You can use RUN, CMD, FROM, EXPOSE, ENV etc instructions in your Dockerfile.

Here, we are listing some commonly used instructions

### **FROM**

This instruction is used to set the Base Image for the subsequent instructions. A valid Dockerfile must have FROM as its first instruction

FROM ubuntu

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### **LABEL**

We can add labels to an image to organize images of our project. We need to use LABEL instruction to set label for the image.

LABEL vendorl = "JavaTpoint"

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### **RUN**

This instruction is used to execute any command of the current image.

RUN /bin/bash -c 'source $HOME/.bashrc; echo $HOME'