
Docker : Docker MasterClass for DevOps

Docker File Instructions



Docker : Service Containers

- Docker file Instructions are used to Create the Docker Images.
- **FROM**: The **FROM** instruction initializes a new build stage and sets the **Base Image** for subsequent instructions.
- A valid Dockerfile must start with a **FROM** instruction.
- Base Image can be any valid image.
- Format:
FROM <Image_name>:<Image_tag>

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- **LABEL** : **LABEL** added to image to organize images by project, record licensing information.
- For each label, add a line beginning with **LABEL** and with one or more key-value pairs.
- ***LABEL com.example.version="0.0.1-beta"***
- ***LABEL vendor1="ACME Incorporated"***

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- **RUN** : **RUN** instruction will execute any commands in a new layer on top of the current image and commit the results.
- The resulting committed image will be used for the next step in the Dockerfile.
- ***FROM ubuntu:14.04***
- ***RUN apt-get update***
- ***RUN apt-get install -y curl***

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- **CMD** : **CMD** instruction should be used to run the software contained by your image, along with any arguments.
- ***CMD ["executable","param1","param2"]***
- There can only be one **CMD** instruction in a Dockerfile. If you list more than one **CMD** then only the last **CMD** will take effect.
- The main purpose of a **CMD** is to provide defaults for an executing container.

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- **EXPOSE** : **EXPOSE** instruction indicates the ports on which a container listens for connections.
***EXPOSE** <port>*
- **ENV** : **ENV** instruction sets the environment variable to the value .
- To make new software easier to run, you can use **ENV** to update the **PATH** environment variable for the software your container installs.
- ***ENV PATH /usr/local/nginx/bin:\$PATH***

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- **ADD** : **ADD** instruction copies new files, directories or remote file URLs from **<src>** and adds them to the filesystem of the image at the path **<dest>**.
- *ADD hom* /mydir/* # adds all files starting with "hom"

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- **VOLUME** : **VOLUME** instruction should be used to expose any database storage area, configuration storage, or files/ folders created by your docker container.
- **WORKDIR** : **WORKDIR** instruction sets the working directory for any **RUN**, **CMD**, **ADD** instructions that follow it in the Dockerfile.

Thank You...

Don't be the Same! Be Better!!!
