Docker Notes

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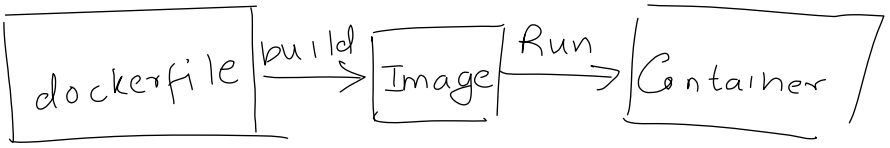
Overview of docker:-



The container acts as an environment to run the image. Image consists of dependencies, code etc. to run the particular software/application.

These images are linux based images

* Creating the dockerfile.

Below snippet for reference:-

```
FROM node:latest
WORKDIR /app
COPY . .
RUN npm i
EXPOSE 3500
CMD ["npm", "run", "dev"]
```

Building the image:-

```
docker build -t <image-name> .
```

#Imp:- "." signifies the current working dir. This directory can be changed. For example:- ./downloads

* The container can be run manually or by cmd:-

```
docker run --name <container name> -p 6500:3500 <image name>
```

Similarly, we can remove the docker image/container.

```
docker container -rm <container name> -f
```

Here -f signifies that the container must be stopped forcefully, i.e. the container is running and it should be stopped.

forcefully ... be stopped.

docker image -rm <image name> -f

- .dockerignore :- Similar to .gitignore, to ignore unwanted files. Ex :- node_modules, *.txt

* Here, * refers to all the files with .txt extension.

Compose file in docker :- Encapsulates all docker commands. To achieve, we create compose.yaml file.

```
* services :
    img :
      build :
      container_name : basic_appcontainer
      ports :
        - 5500 : 3000
```

docker compose up (Run a compose yaml)

Managing versions of image :- In lifetime of a project, there would be various versions.

→ docker build -t base-app . {Default}

→ docker build -t base-app:V2 . {Indicating version}