

App.py
↳ uses Flask, Flask-restful
for creating repository of resources.
↳ That are
end point
accessed
Requirement.txt → Flask
R. . . dependencies

How to build the machine from scratch
↳ will perform → Creating VM, down OS image
+ Python image, depend +
RUN app.
Dockerfile
↳ From Python3
⇒ This downloads the python 3 application
image

↳ this image itself uses dockerfile
that downloads various other thing
↳ OS ubuntu. ↳
other dependencies.

↳ we can access this image (Python3)
from docker-hub the same way
we use modules from git-hub.

↳ Workdir /usr/src/app

⇒ Make dir + Access Remember its access
point for future use.

↳ Copy requirements.txt

↳ Copy the text file present in the
folder (where dockerfile is) to the
machine folder

machine folder is built by at `usr/local`
for virtual location

↳ **RUN** `pip install --no-cache-dir -r requirements`
Execute this → install dependencies
command

↳ assert no cached
dir from before

-r → Recursively install all sub-dependencies

↳ Copy

row
machine

↳ Virtual Machine

(All files / neighbour files / siblings of
dockerfile)

↳ `cmd ["python" "app.py"]`

we write `python3 app.py`

But we run `app.py` using Flask.

↳ some more instructions need to be
passed.

web { App.py, requirements.txt and Dockerfile
↳ Folder
test.
↳ we create docker-compose.yml YAML file
↳ ends for creating VM + running app

- For each application we create a docker container → To run that module
- We sync these container using YAML file.

* version: '3'
↳ Tells the version to use

** services:
web!
build: . / web
ports:
- "5000" "5000"
↳ location on machine.
Create and run web application.
↳ Achieved using dockerfile in app.

db:
build: . / db

sudo docker-compose build
sudo docker-compose up

↳ Request to build services up