Section 3. „Build Base Images from Scratch"

Links:

https://github.com/pythonincontainers/basescratch

https://wiki.debian.org/Debootstrap

Commands:

$ git clone https://github.com/pythonincontainers/basescratch

$ cd basescratch

$ atom .

$ cd dev

$ docker run -it --name official3.7.3 python:3.7.3-slim bash

pip install Flask==1.0.3

rm -f /bin/bash /bin/dash /bin/sh /bin/rbash

exit

$ docker export -o rootfs.tar official3.7.3

$ docker rm official3.7.3

$ docker built -t mypython3.7:official -f Dockerfile.testscratch .

$ docker run -it --rm mypython3.7:official

>> import flask

>>exit()

$ docker run -it --rm mypyhton3.7:official /bin/sh

$ docker history mypython3.7:official

$ cd ..

```
$ cd basescratch/dev

$ docker run -it --rm -v ${PWD}:/host --privileged ubuntu:16.04
/bin/sh /host/install-xenial-buildd.sh

$ docker import --change "ENV
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bi
n" --change "CMD /usr/bin/python" build/rootfs.tar.gz
mypython3.7:import

$ docker build -t mypython3.7:dev-xenial -f
Dockerfile.basescratch .

$ docker inspect mypython3.7:dev-xenial

$ docker run -it --rm -v ${PWD}:/host --privileged ubuntu:16.04
/bin/sh /host/install-xenial-minbase.sh

$ docker build -t mypython3.7:prod-xenial -f
Dockerfile.basescratch .

$ docker images mypython3.7

$ docker build -t factors_flask:cython-custom -f
Dockerfile.cython-multi .

$ docker run -it --rm -p 5000:5000 factors_flask:cython-custom
```