

## **Working with Docker**

Cheatsheet -



\$ docker system prune

MVP: Run an interactive container

docker run -it -rm -d \
 -p <port\_ext>:<port\_int> \
 --name my\_app \
 <app\_name>

MVP: Build an image

```
docker build \
-t <img_name>:<tag> \
-f </path/to/dockerfile/> \
<app_name>
```

```
Remove sudo constraint for docker commands
$ sudo groupadd docker
$ sudo gpasswd -a $USER docker
                                        Build an app image locally
                              $ docker build -t <name:tag> .
                              $ docker build -f <path/to/.dockerfile>
                                                      Start up a container | Print a list of containers
                                                      $ docker run --name <name> <image-name>
                                                      $ docker ps -a
     Start a terminal session in a container
$ docker attach <container-name>
                                          >_
$ docker start -a -i <container-name>
                                       Stop and delete a container
                             $ docker stop <container-name>
                             $ docker rm <container-name>
                                                           Get rid of old images and containers
                                                      $ docker image prune -a
```

## Blueprint for a utility container, e.g. for a vue cli runtime

```
FROM node:14

WORKDIR /vue-setup

# Replace below command with any CLI to be available in the container

RUN npm install -g @vue/cli

# The following commands ensure access to our files

# If we left them out, changing files on our local setup

# would fail due to insufficient permissions.

RUN userdel -r node

ARG USER_ID

ARG GROUP_ID

RUN addgroup --gid $GROUP_ID user

RUN adduser --disabled-password --gecos '' --uid $USER_ID --gid $GROUP_ID user

# Set the active user and open the interactive terminal

USER user

ENTRYPOINT [ "bash" ]
```

## Blueprint for a 2-stage building workflow

```
# build stage
FROM node:alpine as build-stage
WORKDIR /app
COPY package*.json ./
RUN npm install
COPY . .
RUN npm run build

# production stage
FROM nginx:apline as production-stage
COPY --from=build-stage /app/dist /usr/share/nginx/html
EXPOSE 80
CMD ["nginx", "-g", "daemon off;"]
```