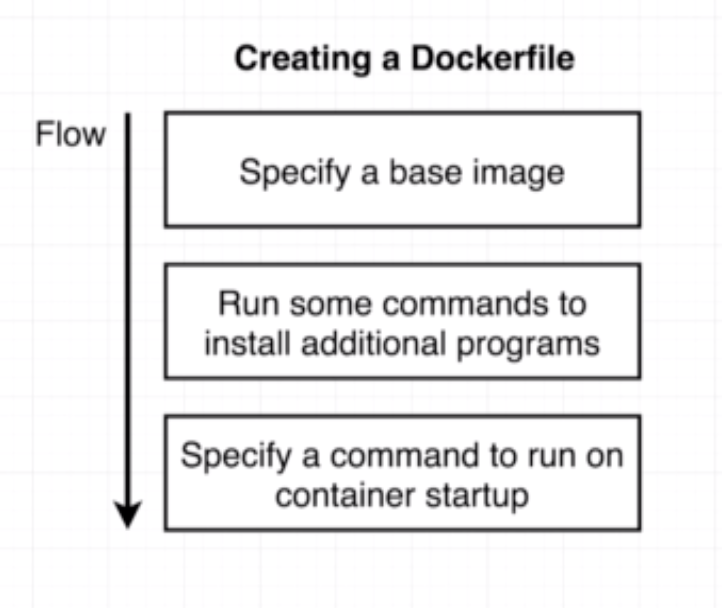
**Building Custom Images Through Docker Server**

* **Creating docker images:**

**A picture containing clock, sign

Description automatically generated**

****

* **Building a docker file:**

**Graphical user interface, application, Word

Description automatically generated**

Go to terminal in the working directory create a new directory named “redis-image”

Inside that director create a file named “Dockerfile” and add below lines of code.

FROM alpine

RUN apt add - -redis

CMD [“redis-server”]

Now run below command to build the image

docker build .

* **Dockerfile teardown:**

**Table

Description automatically generated**

* **What’s a Base Image?**

**A picture containing graphical user interface

Description automatically generated**

**Diagram

Description automatically generated**

**Graphical user interface, diagram

Description automatically generated**

**Diagram

Description automatically generated**

* **The build process in detail:**

docker build .

build -> builds the image.

. -> Build context.

Logs of docker build command:

Sending build context to Docker daemon 2.048kB

Step 1/3 : FROM alpine

---> cdf98d1859c1

Step 2/3 : RUN apk add --update redis

---> Running in 63a0bca6887e

fetch http://dl-cdn.alpinelinux.org/alpine/v3.9/main/x86\_64/APKINDEX.tar.gz

fetch http://dl-cdn.alpinelinux.org/alpine/v3.9/community/x86\_64/APKINDEX.tar.gz

(1/1) Installing redis (4.0.14-r0)

Executing redis-4.0.14-r0.pre-install

Executing redis-4.0.14-r0.post-install

Executing busybox-1.29.3-r10.trigger

OK: 7 MiB in 15 packages

Removing intermediate container 63a0bca6887e

---> e0af19647877

Step 3/3 : CMD ["redis-server"]

---> Running in 3f1d5dc2e337

Removing intermediate container 3f1d5dc2e337

---> 1606babcf403

Successfully built 1606babcf403

Diagram

Description automatically generated

Diagram

Description automatically generated

Diagram

Description automatically generated

Diagram

Description automatically generated

Diagram

Description automatically generated

Diagram

Description automatically generated

Diagram

Description automatically generated

Diagram

Description automatically generated

* **Tagging an image:**

**Diagram

Description automatically generated**

**Diagram

Description automatically generated**

docker build -t dspandiyan/redis:latest .

* **Manual Image creation:**

Diagram

Description automatically generated

Here we are going to create the redis-server image we built previously using dockerfile manually.

Note: This feature is just for learning purpose, don’t use this on project.

Step1: docker run -it alpine sh

Step2: apk add - -update redis

Step3: Run on a separate terminal:

docker ps

docker commit -c ‘CMD [“redis-server”]’ container\_id

Output will be the id of new image we built manually

Then run the newly created image as below.

docker run image\_id