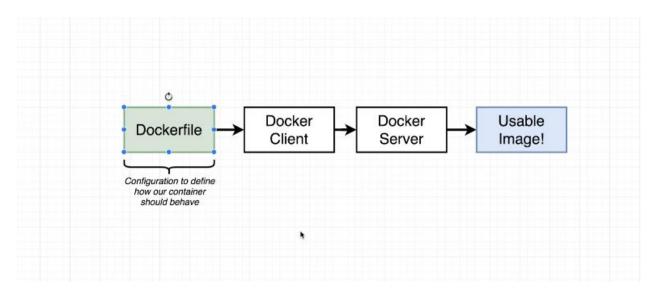
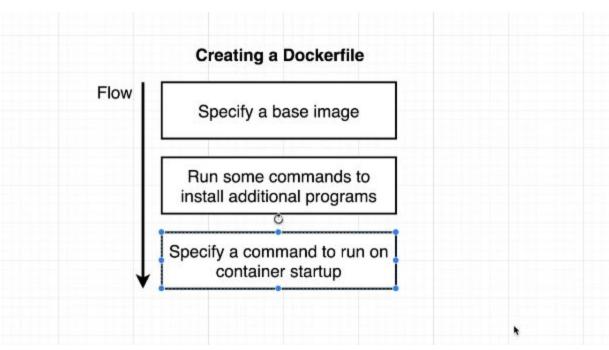
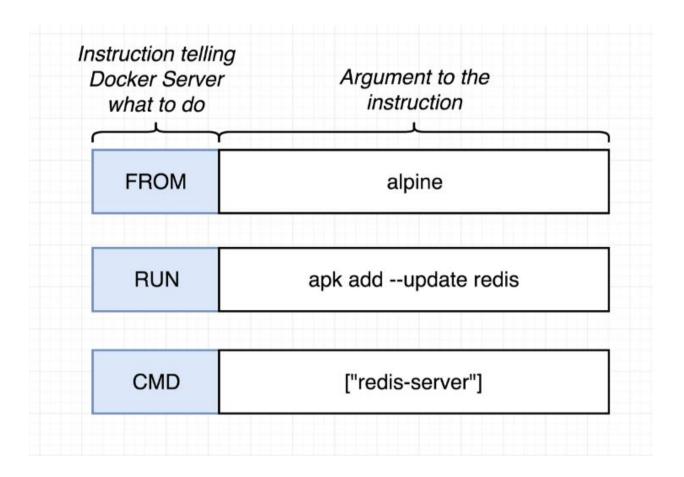
# **Creating a Dockerfile**



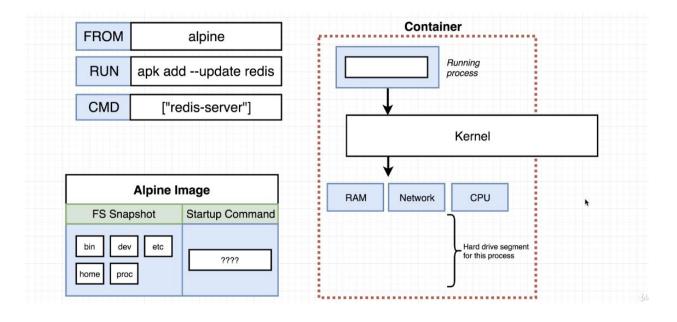


#### Created a Dockerfile with Visual Studio Code

The three instructions used by the dockerfile



The docker build command was used to create an image.



#### The docker image created is f8df506daeb3

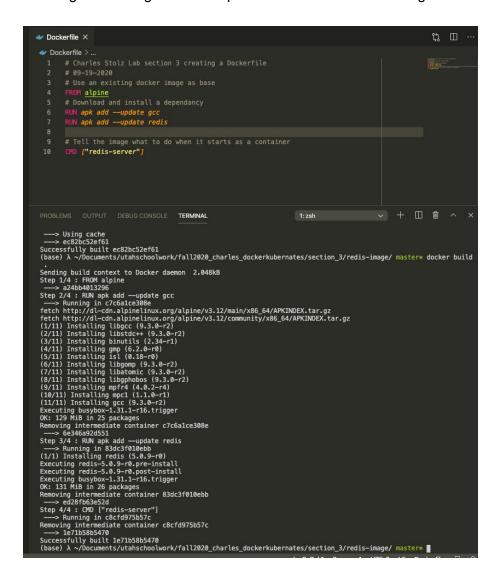
```
(base) λ ~/Documents/utahschoolwork/fall2020_charles_dockerkubernates/section_3/redis-image/ master* docker images
REPOSITORY
                     TAG
                                           IMAGE ID
                                                                 CREATED
                                                                                       SIZE
                                           f8df506daeb3
                                                                 50 minutes ago
                                                                                       8.74MB
<none>
                      <none>
                                                                 2 weeks ago
2 weeks ago
                                           41de2cc0b30e
                                                                                       104MB
redis
                                           edabd795951a
                                                                                       1.22MB
busybox
                     latest
alpine
                     latest
                                           a24bb4013296
                                                                 3 months ago
                                                                                       5.57MB
                                                                 8 months ago
hello-world
                     latest
                                           bf756fb1ae65
                                                                                       13.3kB
(base) \(\lambda \rightarrow \)/Documents/utahschoolwork/fall2020_charles_dockerkubernates/section_3/redis-image/ master*
```

#### Creating a new container adding gcc package

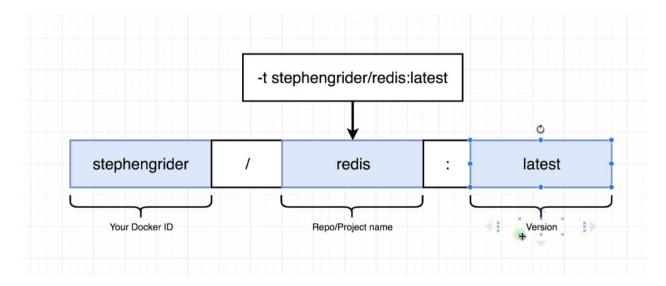
```
ង Ш ...
Dockerfile X
 Dockerfile > ...
          # 09-19-2020
          # Use an existing docker image as base
        FROM <u>alpine</u>
# Download and install a dependancy
         RUN apk add --update redis
RUN apk add --update gcc
           CMD ["redis-server"]
                                                                                                                                             PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
 (base) \lambda \sim Documents/utahschoolwork/fall2020_charles_dockerkubernates/section_3/ master* lltotal 24
 drwxr-xr-x 2 cstolz@cisco.com staff 648 Sep 19 22:25 extra_exercise
drwxr-xr-x 2 cstolz@cisco.com staff 968 Sep 19 19:50 redis-image
-rw-r--r-@ 1 cstolz@cisco.com staff 11K Sep 7 14:51 screenshots_exercises_completed_3.docx
(base) λ ~/Documents/utahschoolwork/fall202@_charles_dockerkubernates/section_3/ master* cd redis-image
(base) λ ~/Documents/utahschoolwork/fall202@_charles_dockerkubernates/section_3/redis-image/ master* docker build
 Sending build context to Docker daemon 2.048kB
Step 1/4: FROM alpine
---> a24bb4013296
Step 2/4: RUN apk add ---update redis
---> Using cache
---> f32c4d2498ea
```

Attempted to run again and no changes since it pulled from the cache file.

Moved gcc to change order of operations this caused the image to need to be totally rebuilt.



### Create Docker project with name (below is the naming convention)



#### Created Image and tagged image

```
(base) \( \lambda \) \( \sigma \) Documents/utahschoolwork/fall2020_charles_dockerkubernates/section_3/redis-image/ \( \text{master* docker build} \) -t rtikes/redis:latest .

Sending build context to Docker daemon 2.048kB

Step 1/4 : FROM alpine ... a 24bb4013296

Step 2/4 : RLN apk add --update gcc ... busing cache ... bea46a92d551

Step 3/4 : RLN apk add --update redis ... Using cache ... bea86a92d551

Step 3/4 : CMD ["redis-server"] ... Using cache ... bea71b58b5470

Successfully built 1e71b58b5470

Successfully tagged rtikes/redis:latest (base) \( \lambda \) -/Documents/utahschoolwork/fall2020_charles_dockerkubernates/section_3/redis-image/ \( \text{master*} \) docker run r tikes/redis ... constants of the second of
```

## Created new image from running container

```
(base) \(\lambda\rightarrow\)Documents/utahschoolwork/fall2020_charles_dockerkubernates/section_3/redis-image/ master* docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
cb670aa82504 alpine "sh" 40 seconds ago Up 39 seconds infallible_c
handrasekhar
(base) \(\lambda\rightarrow\)Documents/utahschoolwork/fall2020_charles_dockerkubernates/section_3/redis-image/ master* docker commit -c 'CMD ["redit-s
erver"] cb670aa82504
sha256:9e3b7bdc282c343e12c24346842d2cec7d97306067e47a20d06640c0d706db6c
```