Changing images

Dockerfile will be attached inside this folder.

Let's build our image.

Running the following builds and tags the image:

```
hater@hater:~/Desktop/SE/ex 1-6/ex3$ docker build -t 'alisher/ping' .
Sending build context to Docker daemon  2.048kB
Step 1/4 : FROM ubuntu:16.04
 ---> b6f507652425
Step 2/4 : LABEL author="Alisher"
 ---> Using cache
 ---> 1421f7962493
Step 3/4 : RUN apt-get update
 ---> Using cache
 ---> 015791ecae07
Step 4/4 : RUN apt-get install -y iputils-ping
 ---> Running in 0ddbe20acc16
Reading package lists...
Building dependency tree...
Reading state information...
The following additional packages will be installed:
  libffi6 libgmp10 libgnutls-openssl27 libgnutls30 libhogweed4 libidn11
  libnettle6 libp11-kit0 libtasn1-6
Suggested packages:
  gnutls-bin
The following NEW packages will be installed:
  iputils-ping libffi6 libgmp10 libgnutls-openssl27 libgnutls30 libhogweed4
  libidn11 libnettle6 libp11-kit0 libtasn1-6
0 upgraded, 10 newly installed, 0 to remove and 0 not upgraded.
Need to get 1307 kB of archives.
After this operation, 3785 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu xenial/main amd64 libgmp10 amd64 2:6.1.0+dfsg-2 [240 kB]
Get:2 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libnettle6 amd64 3.2-1ubuntu0.16.04.2 [93.7 kB]
Get:3 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libhogweed4 amd64 3.2-1ubuntu0.16.04.2 [136 kB]
Get:4 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libidn11 amd64 1.32-3ubuntu1.2 [46.5 kB]
Get:5 http://archive.ubuntu.com/ubuntu xenial/main amd64 libffi6 amd64 3.2.1-4 [17.8 kB]
Get:6 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libp11-kit0 amd64 0.23.2-5~ubuntu16.04.2 [107 kB]
Get:7 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libtasn1-6 amd64 4.7-3ubuntu0.16.04.3 [43.5 kB]
Get:8 http://archive.ubuntu.com/ubuntu xenial-updates/main amd64 libgnutls30 amd64 3.4.10-4ubuntu1.9 [548 kB]
```

Running docker images, we can see our newly built image.

```
hater@hater:~/Desktop/SE/ex 1-6/ex3$ docker images
REPOSITORY              TAG              IMAGE ID        CREATED
 SIZE
alisher/ping            latest           0cd89d1b775c    About a minute ago
 170MB
test                    latest           a4671517ab78    4 months ago
 323MB
golang                  1.16-alpine      eee5af307da8    4 months ago
 302MB
ubuntu                  16.04            b6f507652425    6 months ago
 135MB
httpd                   latest           73b8cfec1155    8 months ago
 138MB
bitnami/mongodb         4.4              459fbddc53f3    8 months ago
 427MB
portainer/portainer-ce  latest           865cf8021627    8 months ago
 210MB
nats                    2.1.8-alpine3.11 96815e17bf11    18 months ago
 16.3MB
```

Our fluff actually happens to originate from the `apt-get update` command, which leaves a bunch of package lists around that we don't need. The easiest way to deal with this is to collapse all of the related `RUN` directives together.

```
hater@hater:~/Desktop/SE/ex 1-6/ex3$ docker build -t 'alisher/ping' . Etner"
Sending build context to Docker daemon  2.048kB
Step 1/4 : FROM ubuntu:16.04                         RUN apt-get update \
 ---> b6f507652425                                       && apt-get install -y iputils-ping \
Step 2/4 : LABEL author="Alisher"                       && apt-get clean \
 ---> Using cache                                        && cd /var/lib/apt/lists && rm -fr *
 ---> 1421f7962493
Step 3/4 : RUN apt-get update     && apt-get install -y iputils-ping     && apt-get clea
 ---> Running in 081c808fe1f9
Get:1 http://security.ubuntu.com/ubuntu xenial-security InRelease [99.8 kB]
```

Then after rerunning `build`, our images now like:

```
hater@hater:~/Desktop/SE/ex 1-6/ex3$ docker images
REPOSITORY              TAG               IMAGE ID       CREATED            SIZE
alisher/ping            latest            62bf32048a3b   10 seconds ago     139MB
<none>                  <none>            2478526db7fe   About a minute ago 135MB
<none>                  <none>            0cd89d1b775c   4 minutes ago      170MB
test                    latest            a4671517ab78   4 months ago       323MB
golang                  1.16-alpine       eee5af307da8   4 months ago       302MB
ubuntu                  16.04             b6f507652425   6 months ago       135MB
httpd                   latest            73b8cfec1155   8 months ago       138MB
bitnami/mongodb         4.4               459fbddc53f3   8 months ago       427MB
portainer/portainer-ce  latest            865cf8021627   8 months ago       210MB
nats                    2.1.8-alpine3.11  96815e17bf11   18 months ago      16.3MB
```