Exercise 1

docker run hello-world

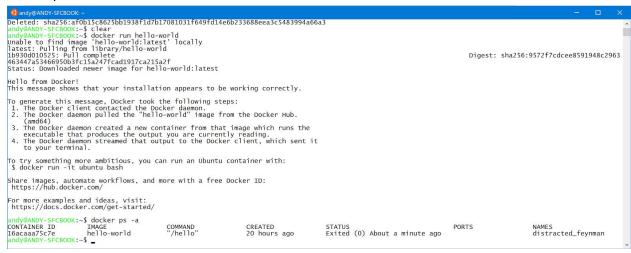
docker images

```
andy@ANDY-SFCBOOK:
andy@ANDY-SFCBOOK:~$ clear
andy@ANDY-SFCBOOK:~$ docker run hello-world
Unable to find image 'hello-world:latest' local
latest: Pulling from library/hello-world
1b930d010525: Pull complete
2963463447a53466950b3fc15a247fcad1917ca215a2f
                                                                                                                                                       Digest: sha256:9572f7cdcee8591948c
Status: Downloaded newer image for hello-world:latest
Hello from Docker!
This message shows that your installation appears to be working correctly.
 To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
        (amd64)

    The Docker daemon created a new container from that image which runs the executable that produces the output you are currently reading.
    The Docker daemon streamed that output to the Docker client, which sent it

       to your terminal.
 To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash
Share images, automate workflows, and more with a free Docker ID: https://hub.docker.com/
 For more examples and ideas, visit:
https://docs.docker.com/get-started/
 andy@ANDY-SFCBOOK:~$ docker images
REPOSITORY
hello-world
                                                                          IMAGE ID
fce289e99eb9
                                    TAG
latest
                                                                                                               CREATED
                                                                                                                                                    SIZE
1.84kB
                                                                                                               12 months ago
 andy@ANDY-SFCBOOK:~$
```

docker ps -a



Exercise 2

docker pull alpine

```
Status: Downloaded newer image for hello-world:latest

Hello from Docker!

This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:

1. The Docker client contacted the Docker daemon.

2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
(and64)

3. The Docker daemon created a new container from that image which runs the
executable that produces the output you are currently reading.

4. The Docker daemon streamed that output to the Docker client, which sent it
to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://fub.docker.com/get-started/
andy@ANDV-$FCBOOK:-5 docker ps -a
CONTAINER ID IMAGE
LGCAMARD CREATED
STATUS
PORTS
NAMES
distracted_feynman

Addy@ANDV-$FCBOOK:-5 docker pull alpine
using default tag: latest
latest: Pulling from library/alpine
latest: Pulling from library/alpine
latest: Downloaded newer image for alpine:latest
andy@ANDV-$FCBOOK:-5.
```

docker run alpine ls -l

docker run alpine echo "hello from alpine"

```
Andy@ANDY-SFCBOOK:-5 docker ps -a
COMTAINER ID IMAGE COMMAND CREATED STATUS
Local Latest Latest Latest Latest Latest Latest Latest: Status Downloaded never image for alpine: latest Latest: Downloaded never image for alpine: latest Latest Latest Local Latest Latest Latest Latest: Lownloaded never image for alpine: latest Latest: Downloaded never image for alpine: latest Latest: Downloaded never image for alpine: latest Local Latest Latest: Lownloaded never image for alpine: latest Local Latest Latest: Lownloaded never image for alpine: latest Local Latest La
```

docker run -it alpine /bin/sh

docker ps -a

```
dandy@ANDY-SFCBOOK →
drwxr-xr-x 12 root root 4096 Jan 16 21:52 var
andy@ANDY-SFCBOOK:~$ docker run alpine echo "hello from alpine"
hello from alpine
andy@ANDY-SFCBOOK:~$ docker run -it alpine /bin/sh
STATUS
Exited (0) 29 seconds ago
Exited (0) About a minute ago
Exited (0) 2 minutes ago
Exited (0) 5 minutes ago
                                                                                                                                                                                                                                                                          NAMES
fervent_heyrovsky
boring_moser
sleepy_volhard
distracted_feynma
                                                                                                                                                                                                                                       PORTS
```

docker run --name static-site -e AUTHOR="Andy Horn" -d -P dockersamples/static-site

```
andy@ANDY-SFCBOOK
                                                                                                                                                                                                                                                                                                                                                                          4096 Jan 16 21:52 mpt

4096 Jan 16 21:52 ppt

0 Jan 19 18:52 ppt

4096 Jan 19 18:52 ppt

4096 Jan 19 18:52 prot

4096 Jan 16 21:52 pto

4096 Jan 16 21:52 sbin

4096 Jan 16 21:52 sty

4096 Jan 16 21:52 tmp

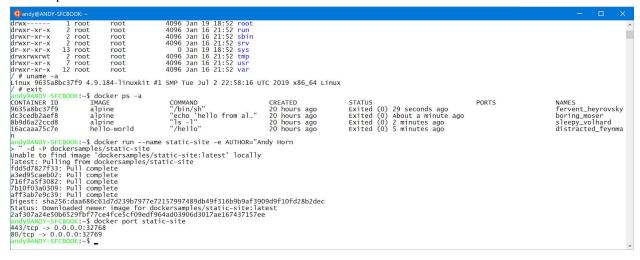
4096 Jan 16 21:52 usr

4096 Jan 16 21:52 vsr

4096 Jan 16 21:52 vsr

4096 Jan 16 21:52 vsr
    drwxr-xr-x 2 root
drwxr-xr-x 2 root
dr-xr-xr-x 143 root
drwx----- 1 root
drwxr-xr-x 2 root
                                                                                                                                                                                                                                              STATUS
Exited (0) 29 seconds ago
Exited (0) About a minute ago
Exited (0) 2 minutes ago
Exited (0) 5 minutes ago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAMES
fervent_heyrovsky
boring_moser
sleepy_volhard
distracted_feynma
  | And | And
```

docker port static-site

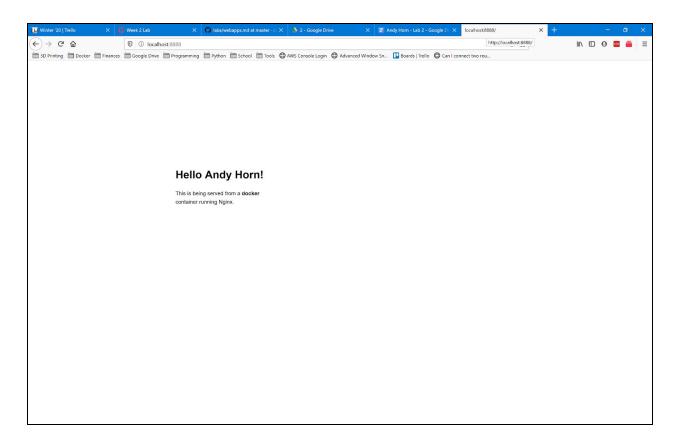


Hello Andy Horn!

This is being served from a **docker** container running Nginx.

docker run --name static-site-2 -e AUTHOR="Andy Horn" -d -p 8888:80 dockersamples/static-site

```
| Andy@ANDY-SFCBOOK:-2 | Date | Complete | C
```

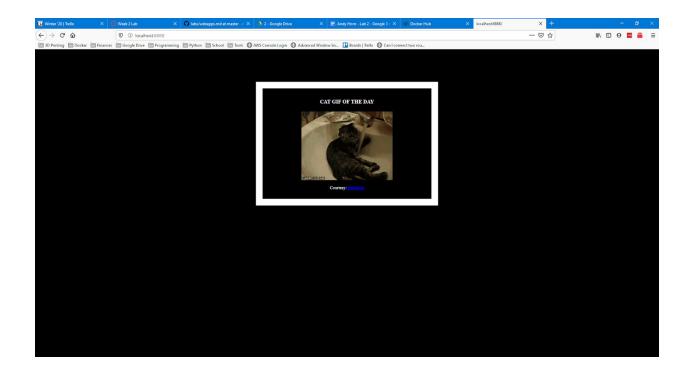


docker build -t andyhorn/myfirstapp .

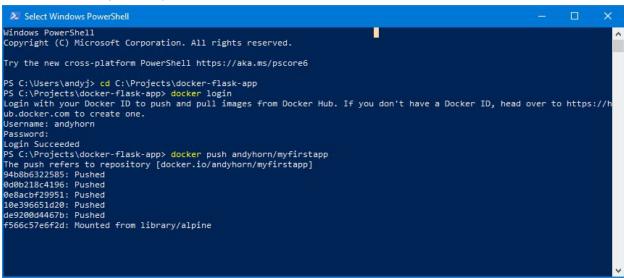
```
| Section | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4) | 10.548(5):28(4):28(4) | 10.548(5):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28(4):28
```

docker run -p 8888:5000 --name myfirstapp andyhorn/myfirstapp

```
Collecting itsdangerous>=0.21 (from Flask==0.10.1->-r /usr/src/app/requirements.txt (line 1))
Downloading https://files.pythonhosted.org/packages/76/ae/44b03b253d6fade317f32c24d100b3b35c2239807046a4c953c7b89fa49e/itsdangerous-1.1.0-py2.py3-none-a
ny.whl
Collecting MarkupSafe>=0.23 (from Jinja2>=2.4->Flask==0.10.1->-r /usr/src/app/requirements.txt (line 1))
Downloading https://files.pythonhosted.org/packages/b9/2e/64db92e53b86efccfaea/1321f597fa2e1b2bd3853d8ce658568f7a13094/MarkupSafe-1.1.1.tar.gz
Installing collected packages: Werkzeug, MarkupSafe, jinja2, itsdangerous, Flask
Running setup.py install for MarkupSafe: started
Running setup.py install for MarkupSafe: finished with status 'done'
Running setup.py install for lask: started
Running setu
```

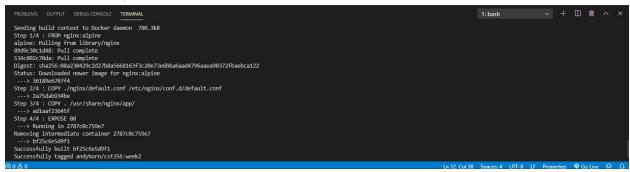


docker push andyhorn/myfirstapp



Exercise 4

docker build -t andyhorn/cst356:week2 ./Week2



docker run -d -p 80:80 andyhorn/cst356:week2

