```
Last login: Tue May  3 18:51:40 on console
[altyn@Altynsass-MBP ~ % docker run hello-world
docker: Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docker daemon running?.
See 'docker run --help'.
altyn@Altynsass-MBP ~ % docker run hello-world
[Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
Digest: sha256:10d7d58d5ebd2a652f4d93fdd86da8f265f5318c6a73cc5b6a9798ff6d2b2e67
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)
 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://docs.docker.com/get-started/

altyn@Altynsass-MBP ~ % docker pull alpine
[Using default tag: latest
latest: Pulling from library/alpine
df9b9388f04a: Pull complete
Digest: sha256:4edbd2beb5f78b1014028f4fbb99f3237d9561100b6881aabbf5acce2c4f9454
Status: Downloaded newer image for alpine:latest
docker.io/library/alpine:latest
altyn@Altynsass-MBP ~ % docker images
[REPOSITORY                TAG              IMAGE ID       CREATED         SIZE
alpine                    latest           0ac33e5f5afa   4 weeks ago     5.57MB
redis                     latest           bba24acba395   5 weeks ago     113MB
nginx                     latest           12766a6745ee   5 weeks ago     142MB
altyn/ping                latest           1d0450f21b5f   5 weeks ago     135MB
myrzaboi/ping             latest           1d0450f21b5f   5 weeks ago     135MB
myrzaboi/hello-world      latest           9b3fe178009d   5 weeks ago     72.8MB
<none>                    <none>           d61a772b2f25   5 weeks ago     72.8MB
<none>                    <none>           8755f4ee62ba   5 weeks ago     72.8MB
```

```
dockersamples/static-site                    latest        f589ccde7957  6 years ago    191MB
php                                           5.3           7f2a82c91480  7 years ago    729MB
php                                           5.3-cli       7f2a82c91480  7 years ago    729MB
altyn@Altynsass-MBP ~ % docker run alpine ls -l
total 56
drwxr-xr-x    2 root     root          4096 Apr  4 16:06 bin
drwxr-xr-x    5 root     root           340 May  4 16:39 dev
drwxr-xr-x    1 root     root          4096 May  4 16:39 etc
drwxr-xr-x    2 root     root          4096 Apr  4 16:06 home
drwxr-xr-x    7 root     root          4096 Apr  4 16:06 lib
drwxr-xr-x    5 root     root          4096 Apr  4 16:06 media
drwxr-xr-x    2 root     root          4096 Apr  4 16:06 mnt
drwxr-xr-x    2 root     root          4096 Apr  4 16:06 opt
dr-xr-xr-x  175 root     root             0 May  4 16:39 proc
drwx------    2 root     root          4096 Apr  4 16:06 root
drwxr-xr-x    2 root     root          4096 Apr  4 16:06 run
drwxr-xr-x    2 root     root          4096 Apr  4 16:06 sbin
drwxr-xr-x    2 root     root          4096 Apr  4 16:06 srv
dr-xr-xr-x   13 root     root             0 May  4 16:39 sys
drwxrwxrwt    2 root     root          4096 Apr  4 16:06 tmp
drwxr-xr-x    7 root     root          4096 Apr  4 16:06 usr
drwxr-xr-x   12 root     root          4096 Apr  4 16:06 var
altyn@Altynsass-MBP ~ % docker run alpine echo "hello from alpine"
hello from alpine
altyn@Altynsass-MBP ~ % docker run alpine /bin/sh
altyn@Altynsass-MBP ~ % docker run -it alpine /bin/sh
/ # docker ps
/bin/sh: docker: not found
/ # exit
altyn@Altynsass-MBP ~ % docker ps
CONTAINER ID   IMAGE      COMMAND    CREATED    STATUS     PORTS      NAMES
altyn@Altynsass-MBP ~ % docker ps -a
CONTAINER ID   IMAGE                                  COMMAND                  CREATED         STATUS                      PORTS     NAMES
777c28fbc760   alpine                                 "/bin/sh"                3 minutes ago   Exited (127) 2 minutes ago            agitated_matsumoto
d0b716d8940    alpine                                 "/bin/sh"                17 minutes ago  Exited (0) 17 minutes ago             condescending_davinci
9bd14443a3a2   alpine                                 "echo 'hello from al…"   17 minutes ago  Exited (0) 17 minutes ago             sleepy_herschel
ebfefae41e1d   alpine                                 "ls -l"                  20 minutes ago  Exited (0) 20 minutes ago             admiring_hawking
31face384b5c   hello-world                            "/hello"                 22 minutes ago  Exited (0) 22 minutes ago             elastic_shaw
1dc5a89f6bdf   devopsdockeruh/ports_exercise          "docker-entrypoint.s…"   4 weeks ago     Exited (0) 4 weeks ago                exciting_goldstine
a63f52cae078   devopsdockeruh/first_volume_exercise   "docker-entrypoint.s…"   4 weeks ago     Exited (0) 4 weeks ago                unruffled_leavitt
0c1e2f27a323   devopsdockeruh/first_volume_exercise   "docker-entrypoint.s…"   4 weeks ago     Exited (0) 4 weeks ago                elegant_blackburn
18e4cbba2af1   devopsdockeruh/first_volume_exercise   "docker-entrypoint.s…"   4 weeks ago     Exited (0) 4 weeks ago                suspicious_dubinsky
3005c1feb1ec   devopsdockeruh/ports_exercise          "docker-entrypoint.s…"   4 weeks ago     Exited (0) 4 weeks ago                boring_joliot
8c481e6e58a8   ubuntu                                 "bash"                   4 weeks ago     Exited (255) 22 minutes ago           name
d01636f477c2   devopsdockeruh/pull_exercise           "node index.js"          4 weeks ago     Exited (0) 4 weeks ago                keen_rosalind
7e0a42ef9e5c   redis                                  "docker-entrypoint.s…"   4 weeks ago     Exited (0) 4 weeks ago                rd-test
19b422e6ec1e   postgres                               "docker-entrypoint.s…"   4 weeks ago     Exited (1) 4 weeks ago                pg-test
dabe5bfb8ab2   nginx                                  "/docker-entrypoint.…"   4 weeks ago     Exited (0) 4 weeks ago                ng-test
22d041bea5f0   ubuntu:16.04                           "/bin/bash"              5 weeks ago     Exited (1) 5 weeks ago                intelligent_colden
a843eacb047b   ubuntu:16.04                           "/bin/bash"              5 weeks ago     Exited (0) 5 weeks ago                relaxed_kilby
4257018fd4be   ubuntu:16.04                           "/bin/echo 'Hello wo…"   5 weeks ago     Exited (0) 5 weeks ago                pensive_jackson
f307b9549031   php:5.6                                "docker-php-entrypoi…"   2 months ago    Exited (0) 2 months ago               php_5_6
7b6f599828e6   php:5.3                                "php -a"                 2 months ago    Exited (0) 2 months ago               php_5_3
ef6b44e7ae5d   ubuntu                                 "bash"                   2 months ago    Exited (255) 5 weeks ago              clever_golick
98a28c4de82b   ubuntu                                 "bash"                   2 months ago    Exited (255) 5 weeks ago              jovial_lewin
89e9a823c9d8   ubuntu                                 "bash"                   2 months ago    Exited (255) 5 weeks ago              eager_galois
606b21da7747   ubuntu                                 "bash"                   2 months ago    Exited (255) 5 weeks ago              condescending_pascal
altyn@Altynsass-MBP ~ % docker run -it alpine /bin/sh
/ # ls
bin    dev    etc    home   lib    media  mnt    opt    proc   root   run    sbin   srv    sys    tmp    usr    var
/ # uname -a
Linux 3556a1ba867f 5.10.76-linuxkit #1 SMP Mon Nov 8 10:21:19 UTC 2021 x86_64 Linux
/ #
```
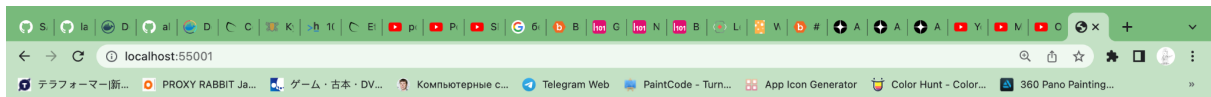
```
altyn@Altynsass-MBP ~ % docker run
"docker run" requires at least 1 argument.
See 'docker run --help'.

Usage:  docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

Run a command in a new container
altyn@Altynsass-MBP ~ % docker ps
CONTAINER ID   IMAGE                       COMMAND                 CREATED         STATUS          PORTS               NAMES
84fb6261c38d   dockersamples/static-site   "/bin/sh -c 'cd /usr…"  30 minutes ago  Up 30 minutes   80/tcp, 443/tcp     angry_kepler
altyn@Altynsass-MBP ~ % docker stop 84fb6261c38d
84fb6261c38d
altyn@Altynsass-MBP ~ % docker rm 84fb6261c38d
84fb6261c38d
altyn@Altynsass-MBP ~ % docker run --name static-site -e AUTHOR="altyn" -d -P dockersamples/static-site
cc373e763d8327c1e3d688071f094a9591450215c1f61a59b284188936c126c8
altyn@Altynsass-MBP ~ % docker port static-site
443/tcp -> 0.0.0.0:55000
80/tcp -> 0.0.0.0:55001
altyn@Altynsass-MBP ~ %
```
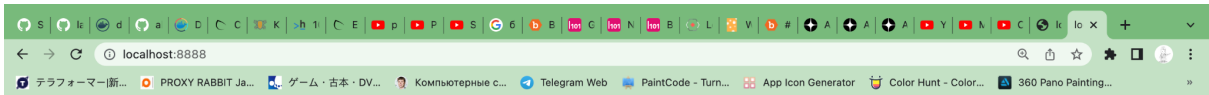
Hello altyn!

This is being served from a **docker** container running Nginx.
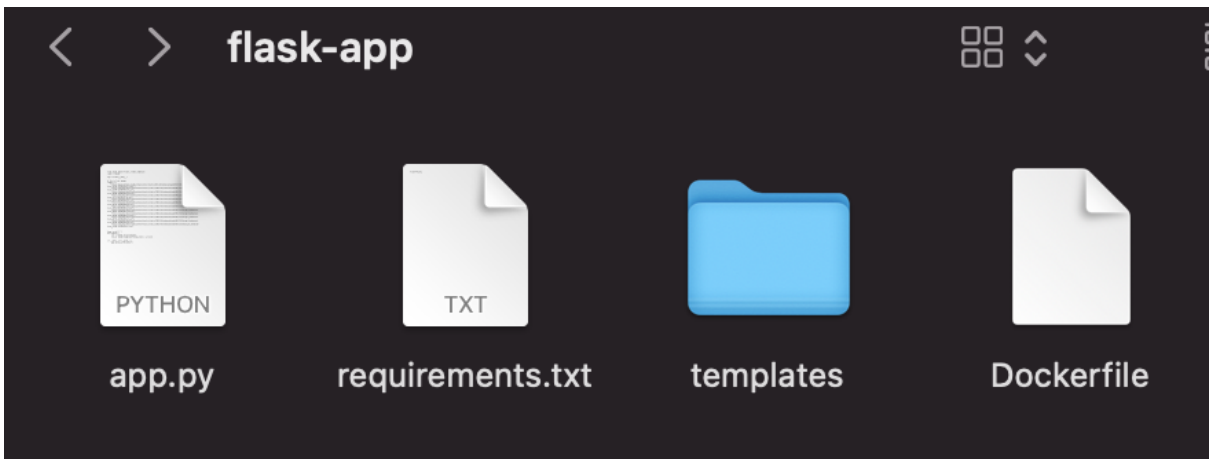
```
altyn@Altynsass-MBP ~ % docker run --name static-site-2 -e AUTHOR="altyn" -d -p 8888:80 dockersamples/static-site

42a8b423b2982d32cd8582d9df64054df13aac133881e0f9d8e8380f78ff0419
altyn@Altynsass-MBP ~ % docker port static-site-2
80/tcp -> 0.0.0.0:8888
altyn@Altynsass-MBP ~ % docker stop static-site
static-site
altyn@Altynsass-MBP ~ % docker stop static-site-2
static-site-2
altyn@Altynsass-MBP ~ % docker rm static-site
static-site
altyn@Altynsass-MBP ~ % docker rm static-site-2
static-site-2
altyn@Altynsass-MBP ~ %
```
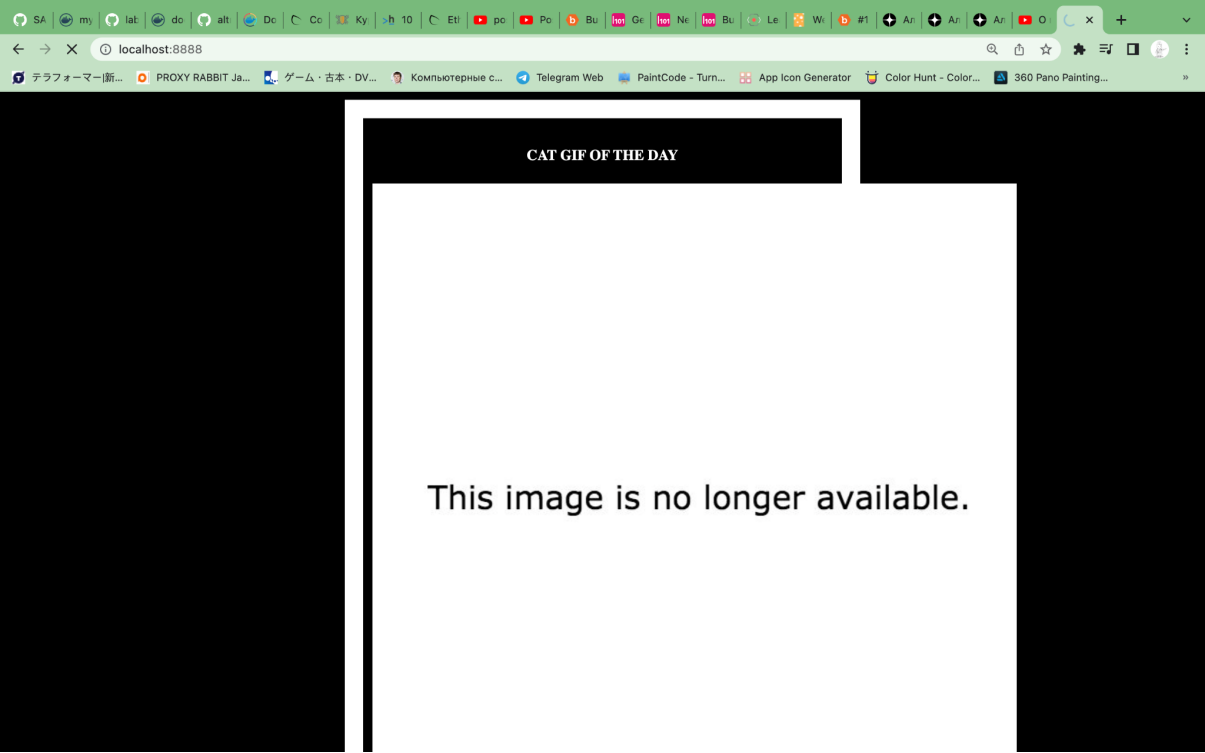
Hello altyn!

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

flask-app

app.py   requirements.txt   templates   Dockerfile

```
altyn@Altynsass-MBP flask-app % touch Dockerfile
altyn@Altynsass-MBP flask-app % docker build -t myrzaboi/myfirstapp .
[+] Building 16.0s (12/12) FINISHED
 => [internal] load build definition from Dockerfile                                                      0.1s
 => => transferring dockerfile: 766B                                                                      0.0s
 => [internal] load .dockerignore                                                                         0.0s
 => => transferring context: 2B                                                                           0.0s
 => [internal] load metadata for docker.io/library/alpine:3.5                                             4.6s
 => [auth] library/alpine:pull token for registry-1.docker.io                                            0.0s
 => [1/6] FROM docker.io/library/alpine:3.5@sha256:66952b313e51c3bd1987d7c4ddf5dba9bc0fb6e524eed2448fa660246b3e76ec  0.0s
 => [internal] load build context                                                                        0.7s
 => => transferring context: 2.77kB                                                                       0.6s
 => CACHED [2/6] RUN apk add --update py2-pip                                                            0.0s
 => [3/6] COPY requirements.txt /usr/src/app/                                                            0.1s
 => [4/6] RUN pip install --no-cache-dir -r /usr/src/app/requirements.txt                               10.2s
 => [5/6] COPY app.py /usr/src/app/                                                                       0.1s
 => [6/6] COPY templates/index.html /usr/src/app/templates/                                              0.0s
 => exporting to image                                                                                    0.2s
 => => exporting layers                                                                                   0.2s
 => => writing image sha256:641758cf009df4a6f61441bf2411e6b442469c5957b8d52f1564a0969a7d8c67            0.0s
 => => naming to docker.io/myrzaboi/myfirstapp                                                           0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
altyn@Altynsass-MBP flask-app %
```

```
[altyn@Altynsass-MBP flask-app % docker images
REPOSITORY                     TAG            IMAGE ID        CREATED          SIZE
myrzaboi/myfirstapp            latest         641758cf009d    2 minutes ago    56.8MB
```
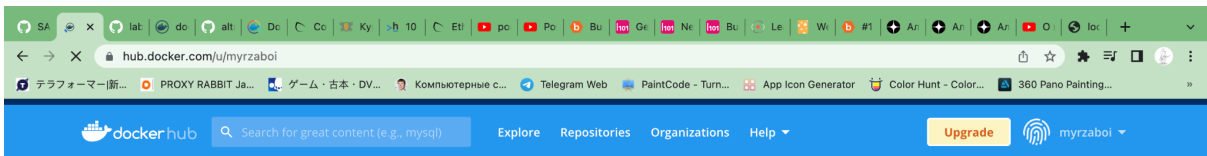
```
[altyn@Altynsass-MBP flask-app % docker run -p 8888:5000 --name myfirstapp myrzaboi/myfirstapp
 * Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
172.17.0.1 - - [04/May/2022 20:13:01] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [04/May/2022 20:13:01] "GET / HTTP/1.1" 200 -
```

CAT GIF OF THE DAY

This image is no longer available.

```
altyn@Altynsass-MBP flask-app % cd ..
[altyn@Altynsass-MBP ~ % docker login
Authenticating with existing credentials...
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.docker.com/go/access-tokens/
[altyn@Altynsass-MBP ~ % docker push myrzaboi/myfirstapp
Using default tag: latest
The push refers to repository [docker.io/myrzaboi/myfirstapp]
f4aa7b28d460: Pushed
b387b095ddfd: Pushed
e96e8d6e3bab: Pushed
09a014cb87f0: Pushed
3e8e380820f2: Pushed
f566c57e6f2d: Mounted from library/alpine
latest: digest: sha256:ad8327674a2f39e4045ab236b26219d9f0b95226f194d4f8a81a95d58f31d2b9 size: 1571
altyn@Altynsass-MBP ~ %
```

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myrzaboi   Edit profile

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Stars

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Container

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Stars

myrzaboi/hello-world

3   0
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