```
kirillspitsyn@LAPTOP-VPGTN0GN:~$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
c1ec31eb5944: Pull complete
Digest: sha256:4bd78111b6914a99dbc560e6a20eab57ff6655aea4a80c50b0c5491968cbc2e6
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/
```

```
kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker pull alpine
Using default tag: latest
latest: Pulling from library/alpine
661ff4d9561e: Pull complete
Digest: sha256:51b67269f354137895d43f3b3d810bfacd3945438e94dc5ac55fdac340352f48
Status: Downloaded newer image for alpine:latest
docker.io/library/alpine:latest
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker images
REPOSITORY      TAG        IMAGE ID        CREATED        SIZE
alpine          latest     f8c20f8bbcb6    5 weeks ago    7.38MB
hello-world     latest     d2c94e258dcb    8 months ago   13.3kB
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker run alpine ls -l
total 56
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 bin
drwxr-xr-x    5 root     root           340 Jan 15 00:34 dev
drwxr-xr-x    1 root     root          4096 Jan 15 00:34 etc
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 home
drwxr-xr-x    7 root     root          4096 Dec  7 09:43 lib
drwxr-xr-x    5 root     root          4096 Dec  7 09:43 media
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 mnt
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 opt
dr-xr-xr-x  349 root     root             0 Jan 15 00:34 proc
drwx------    2 root     root          4096 Dec  7 09:43 root
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 run
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 sbin
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 srv
dr-xr-xr-x   11 root     root             0 Jan 15 00:34 sys
drwxrwxrwt    2 root     root          4096 Dec  7 09:43 tmp
drwxr-xr-x    7 root     root          4096 Dec  7 09:43 usr
drwxr-xr-x   12 root     root          4096 Dec  7 09:43 var
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker run alpine echo "hello from alpine"
hello from alpine
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker run alpine /bin/sh
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~                                                    —    □    ✕

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker run -it alpine /bin/sh
/ # ls -l
total 56
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 bin
drwxr-xr-x    5 root     root           360 Jan 15 00:45 dev
drwxr-xr-x    1 root     root          4096 Jan 15 00:45 etc
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 home
drwxr-xr-x    7 root     root          4096 Dec  7 09:43 lib
drwxr-xr-x    5 root     root          4096 Dec  7 09:43 media
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 mnt
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 opt
dr-xr-xr-x  356 root     root             0 Jan 15 00:45 proc
drwx------    1 root     root          4096 Jan 15 00:46 root
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 run
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 sbin
drwxr-xr-x    2 root     root          4096 Dec  7 09:43 srv
dr-xr-xr-x   11 root     root             0 Jan 15 00:45 sys
drwxrwxrwt    2 root     root          4096 Dec  7 09:43 tmp
drwxr-xr-x    7 root     root          4096 Dec  7 09:43 usr
drwxr-xr-x   12 root     root          4096 Dec  7 09:43 var
/ # uname -a
Linux e19cce015d2f 5.15.133.1-microsoft-standard-WSL2 #1 SMP Thu Oct 5 21:02:42 UTC 2023 x86_64 Linux
/ # exit
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker ps -a
CONTAINER ID   IMAGE         COMMAND              CREATED         STATUS                      PORTS     NAMES
e19cce015d2f   alpine        "/bin/sh"            3 minutes ago   Exited (0) About a minute ago         nifty_wilson
ee3fd1205166   alpine        "/bin/sh"            4 minutes ago   Exited (0) 4 minutes ago              stoic_hertz
b088fa647912   alpine        "echo 'hello from al…"  6 minutes ago   Exited (0) 6 minutes ago           blissful_dirac
32358773b4cd   alpine        "ls -l"              13 minutes ago  Exited (0) 13 minutes ago             serene_leavitt
ce8d7a55601a   hello-world   "/hello"             43 minutes ago  Exited (0) 43 minutes ago             hungry_ishizaka
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~$ 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 a09bb33966b6 5.15.133.1-microsoft-standard-WSL2 #1 SMP Thu Oct 5 21:02:42 UTC 2023 x86_64 Linux
/ # ^C

/ # exit
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~                                                    —    □    ✕

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker run --help

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

Create and run a new container from an image

Aliases:
  docker container run, docker run

Options:
      --add-host list                Add a custom host-to-IP mapping (host:ip)
      --annotation map               Add an annotation to the container (passed through to the OCI runtime) (default map[])
  -a, --attach list                  Attach to STDIN, STDOUT or STDERR
      --blkio-weight uint16          Block IO (relative weight), between 10 and 1000, or 0 to disable (default 0)
      --blkio-weight-device list     Block IO weight (relative device weight) (default [])
      --cap-add list                 Add Linux capabilities
      --cap-drop list                Drop Linux capabilities
      --cgroup-parent string         Optional parent cgroup for the container
      --cgroupns string              Cgroup namespace to use (host|private)
                                     'host':    Run the container in the Docker host's cgroup namespace
                                     'private': Run the container in its own private cgroup namespace
                                     '':        Use the cgroup namespace as configured by the
                                                default-cgroupns-mode option on the daemon (default)
```

```
 -w, --workdir string                Working directory inside the container
kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker inspect alpine
[
    {
        "Id": "sha256:f8c20f8bbcb684055b4fea470fdd169c86e87786940b3262335b12ec3adef418",
        "RepoTags": [
            "alpine:latest"
        ],
        "RepoDigests": [
            "alpine@sha256:51b67269f354137895d43f3b3d810bfacd3945438e94dc5ac55fdac340352f48"
        ],
        "Parent": "",
        "Comment": "",
        "Created": "2023-12-08T01:20:49.650406179Z",
        "Container": "f2f93a8109b6034cb27137e7cb0a77417b4d7529cde89524d455964455c0d23a",
        "ContainerConfig": {
            "Hostname": "f2f93a8109b6",
            "Domainname": "",
            "User": "",
            "AttachStdin": false,
            "AttachStdout": false,
            "AttachStderr": false,
            "Tty": false,
            "OpenStdin": false,
            "StdinOnce": false,
            "Env": [
                "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
            ],
            "Cmd": [
                "/bin/sh",
                "-c",
                "#(nop) ",
                "CMD [\"/bin/sh\"]"
            ],
            "Image": "sha256:c068232ea3eea78e6800063b9b599c95911729d5c8dd2a2b737684998eefb10a",
            "Volumes": null,
            "WorkingDir": "",
            "Entrypoint": null,
            "OnBuild": null,
            "Labels": {}
        },
        "DockerVersion": "20.10.23",
        "Author": "",
        "Config": {
            "Hostname": "",
            "Domainname": "",
            "User": "",
            "AttachStdin": false,
            "AttachStdout": false,
            "AttachStderr": false,
            "Tty": false,
            "OpenStdin": false,
            "StdinOnce": false,
            "Env": [
                "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin"
            ],
            "Cmd": [
                "/bin/sh"
            ],
            "Image": "sha256:c068232ea3eea78e6800063b9b599c95911729d5c8dd2a2b737684998eefb10a",
            "Volumes": null,
            "WorkingDir": "",
            "Entrypoint": null,
            "OnBuild": null,
            "Labels": null
        },
        "Architecture": "amd64",
        "Os": "linux",
        "Size": 7377066,
        "VirtualSize": 7377066,
        "GraphDriver": {
            "Data": {
                "MergedDir": "/var/lib/docker/overlay2/fa852d6660fd5b7c62bec135aa1c0485e2e35d3ad56fe8e452f6eeb881b3ddc9/merged",
                "UpperDir": "/var/lib/docker/overlay2/fa852d6660fd5b7c62bec135aa1c0485e2e35d3ad56fe8e452f6eeb881b3ddc9/diff",
                "WorkDir": "/var/lib/docker/overlay2/fa852d6660fd5b7c62bec135aa1c0485e2e35d3ad56fe8e452f6eeb881b3ddc9/work"
            },
            "Name": "overlay2"
        },
        "RootFS": {
            "Type": "layers",
            "Layers": [
                "sha256:5af4f8f59b764c64c6def53f52ada809fe38d528441d08d01c206dfb3fc3b691"
            ]
        },
        "Metadata": {
            "LastTagTime": "0001-01-01T00:00:00Z"
        }
    }
]
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~                                              —    □    ✕

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker run -d dockersamples/static-site
Unable to find image 'dockersamples/static-site:latest' locally
latest: Pulling from dockersamples/static-site
fdd5d7827f33: Pull complete
a3ed95caeb02: Pull complete
716f7a5f3082: Pull complete
7b10f03a0309: Pull complete
aff3ab7e9c39: Pull complete
Digest: sha256:daa686c61d7d239b7977e72157997489db49f316b9b9af3909d9f10fd28b2dec
Status: Downloaded newer image for dockersamples/static-site:latest
2fbf692d68414efbafb101392e0cd2f286cd3ae81a6b5d81319ed720d8d4a4e8
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~                                                          —  □  X

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker ps
CONTAINER ID   IMAGE                       COMMAND                 CREATED         STATUS         PORTS               NAMES
2fbf692d6841   dockersamples/static-site   "/bin/sh -c 'cd /usr…"  3 minutes ago   Up 3 minutes   80/tcp, 443/tcp     nostalgic_bhabha

kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker stop 2fbf692d6841
2fbf692d6841
kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker rm 2fbf692d6841
2fbf692d6841
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~                                                    —    □    ×

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker run --name static-site -e AUTHOR="Kirill Spitsyn" -d -P dockersamples/static-site
39aae2598114c3b37f72c5004581fdb27e4091d3175da22c173760d59e139487
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker port static-site
80/tcp -> 0.0.0.0:32769
443/tcp -> 0.0.0.0:32768
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker run --name static-site-2 -e AUTHOR="Kirill Spitsyn2" -d -p 8888:80 dockersamples/static-site
cacf126d481d8a63abb5ca963f651410dc8ccee66839a3e0f067f2e55f65e156
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

Hello Kirill Spitsyn!

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

Hello Kirill Spitsyn2!

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

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker stop static-site
static-site
kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker rm static-site
static-site
kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker rm -f static-site-2
static-site-2
kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker ps
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS     NAMES
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker images
REPOSITORY                    TAG       IMAGE ID       CREATED        SIZE
alpine                        latest    f8c20f8bbcb6   5 weeks ago    7.38MB
hello-world                   latest    d2c94e258dcb   8 months ago   13.3kB
dockersamples/static-site     latest    f589ccde7957   7 years ago    191MB
kirillspitsyn@LAPTOP-VPGTN0GN:~$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~

kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker pull ubuntu:12.04
12.04: Pulling from library/ubuntu
d8868e50ac4c: Pull complete
83251ac64627: Pull complete
589bba2f1b36: Pull complete
d62ecaceda39: Pull complete
6d93b41cfc6b: Pull complete
Digest: sha256:18305429afa14ea462f810146ba44d4363ae76e4c8dfc38288cf73aa07485005
Status: Downloaded newer image for ubuntu:12.04
docker.io/library/ubuntu:12.04
kirillspitsyn@LAPTOP-VPGTN0GN:~$ docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
a48641193673: Pull complete
Digest: sha256:6042500cf4b44023ea1894effe7890666b0c5c7871ed83a97c36c76ae560bb9b
Status: Downloaded newer image for ubuntu:latest
docker.io/library/ubuntu:latest
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~/flask-app                                                    —   □   ✕

kirillspitsyn@LAPTOP-VPGTN0GN:~/flask-app$ docker build -t kirillspitsyn220701/myfirstapp .
[+] Building 0.8s (11/11) FINISHED                                                      docker:default
 => [internal] load .dockerignore                                                              0.0s
 => => transferring context: 2B                                                                0.0s
 => [internal] load build definition from Dockerfile                                           0.0s
 => => transferring dockerfile: 521B                                                           0.0s
 => [internal] load metadata for docker.io/library/alpine:3.5                                  0.5s
 => [1/6] FROM docker.io/library/alpine:3.5@sha256:66952b313e51c3bd1987d7c4ddf5dba9bc0fb6e524eed2448fa660246b3e76  0.0s
 => [internal] load build context                                                              0.0s
 => => transferring context: 132B                                                              0.0s
 => CACHED [2/6] RUN apk add --update py2-pip                                                   0.0s
 => CACHED [3/6] COPY requirements.txt /usr/src/app/                                            0.0s
 => CACHED [4/6] RUN pip install --no-cache-dir -r /usr/src/app/requirements.txt                0.0s
 => CACHED [5/6] COPY app.py /usr/src/app/                                                      0.0s
 => CACHED [6/6] COPY templates/index.html /usr/src/app/templates/                             0.0s
 => exporting to image                                                                         0.0s
 => => exporting layers                                                                        0.0s
 => => writing image sha256:0c180476f7464ffccb106ff2dc2cf42db287cbd6d44c150b1850fffcaab8f9f4   0.0s
 => => naming to docker.io/kirillspitsyn220701/myfirstapp                                      0.0s
kirillspitsyn@LAPTOP-VPGTN0GN:~/flask-app$
```

```
 => => naming to docker.io/kirillspitsyn220701/myfirstapp
kirillspitsyn@LAPTOP-VPGTN0GN:~/flask-app$ docker images
REPOSITORY                          TAG       IMAGE ID       CREATED         SIZE
kirillspitsyn/myfirstapp            latest    0c180476f746   2 minutes ago   56.8MB
kirillspitsyn220701/myfirstapp      latest    0c180476f746   2 minutes ago   56.8MB
ubuntu                              latest    174c8c134b2a   4 weeks ago     77.9MB
alpine                              latest    f8c20f8bbcb6   5 weeks ago     7.38MB
hello-world                         latest    d2c94e258dcb   8 months ago    13.3kB
ubuntu                              12.04     5b117edd0b76   6 years ago     104MB
dockersamples/static-site           latest    f589ccde7957   7 years ago     191MB
kirillspitsyn@LAPTOP-VPGTN0GN:~/flask-app$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN:~/flask-app$ docker run -p 8888:5000 --name myfirstapp kirillspitsyn220701/myfirstapp
 * Running on http://0.0.0.0:5000/ (Press CTRL+C to quit)
```

CAT GIF OF THE DAY

Courtesy: Buzzfeed

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~/flask-app                                    —    □    ✕

kirillspitsyn@LAPTOP-VPGTN0GN:~/flask-app$ docker login
Log in with your Docker ID or email address to push and pull images from Docker Hub. If you do
n't have a Docker ID, head over to https://hub.docker.com/ to create one.
You can log in with your password or a Personal Access Token (PAT). Using a limited-scope PAT
grants better security and is required for organizations using SSO. Learn more at https://docs
.docker.com/go/access-tokens/

Username: kirillspitsyn220701
Password:
WARNING! Your password will be stored unencrypted in /home/kirillspitsyn/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
kirillspitsyn@LAPTOP-VPGTN0GN:~/flask-app$ docker push kirillspitsyn220701/myfirstapp
Using default tag: latest
The push refers to repository [docker.io/kirillspitsyn220701/myfirstapp]
55ef679ce7fc: Pushed
226533cafe87: Pushed
30b8a0eea834: Pushed
bfbae16e04c9: Pushed
9ec5d3860b25: Pushed
f566c57e6f2d: Mounted from library/alpine
latest: digest: sha256:3583c3b362b855fbfc28c6abc86b07cf588c95962d5e45c90ac9930bd187f02b size:
1571
kirillspitsyn@LAPTOP-VPGTN0GN:~/flask-app$ docker stop myfirstapp
myfirstapp
kirillspitsyn@LAPTOP-VPGTN0GN:~/flask-app$ docker rm myfirstapp
myfirstapp
kirillspitsyn@LAPTOP-VPGTN0GN:~/flask-app$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN:~$ git clone https://github.com/docker/example-voting-app.git
Cloning into 'example-voting-app'...
remote: Enumerating objects: 1132, done.
remote: Total 1132 (delta 0), reused 0 (delta 0), pack-reused 1132
Receiving objects: 100% (1132/1132), 1.17 MiB | 1.76 MiB/s, done.
Resolving deltas: 100% (432/432), done.
kirillspitsyn@LAPTOP-VPGTN0GN:~$ cd example-voting-app
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~/example-voting-app                              —     □     ×

kirillspitsyn@LAPTOP-VPGTN0GN:~/example-voting-app$ docker swarm init
Swarm initialized: current node (r8axplz6qnv1kgrqanwxbfgsk) is now a manager.

To add a worker to this swarm, run the following command:

    docker swarm join --token SWMTKN-1-3hb74v65bwbw6zd198tdi1asyff8bmudbb5diwdhpevkis0am2-0gq1
ypo2w3wv5aj5mjcer2okn 192.168.65.3:2377

To add a manager to this swarm, run 'docker swarm join-token manager' and follow the instructi
ons.

kirillspitsyn@LAPTOP-VPGTN0GN:~/example-voting-app$
```

```
kirillspitsyn@LAPTOP-VPGTN0GN: ~/example-voting-app                          —    □    ×

kirillspitsyn@LAPTOP-VPGTN0GN:~/example-voting-app$ docker stack deploy --compose-file docker-stack.yml
 vote
Updating service vote_worker (id: zu01tzwhvwywpo92s4hmadqk4)
Updating service vote_visualizer (id: o5vnfff9ev2qiphb47vkggfwn)
Updating service vote_redis (id: c14h89accr1y5brebjrom8wsg)
Updating service vote_db (id: kjux07ddblpbxybbmkhgdv3zv)
Updating service vote_vote (id: tbrepcnw4nbpujst7nytz9cqa)
Updating service vote_result (id: sf5a4gp83n1uiy0stagx39rk2)
kirillspitsyn@LAPTOP-VPGTN0GN:~/example-voting-app$ docker stack services vote
ID              NAME              MODE          REPLICAS    IMAGE
 PORTS
kjux07ddblpb    vote_db           replicated    0/1         postgres:9.4
c14h89accr1y    vote_redis        replicated    0/2         redis:alpine
 *:30000->6379/tcp
sf5a4gp83n1u    vote_result       replicated    0/1         dockersamples/examplevotingapp_result:before
 *:5001->80/tcp
o5vnfff9ev2q    vote_visualizer   replicated    0/1         dockersamples/visualizer:latest
 *:8080->8080/tcp
tbrepcnw4nbp    vote_vote         replicated    2/2         dockersamples/examplevotingapp_vote:before
 *:5000->80/tcp
zu01tzwhvwyw    vote_worker       replicated    1/1         dockersamples/examplevotingapp_worker:latest
kirillspitsyn@LAPTOP-VPGTN0GN:~/example-voting-app$
```

localhost:5000

Cats vs Dogs!

CATS

DOGS

(Tip: you can change your vote)

Processed by container ID
dca238c7690a
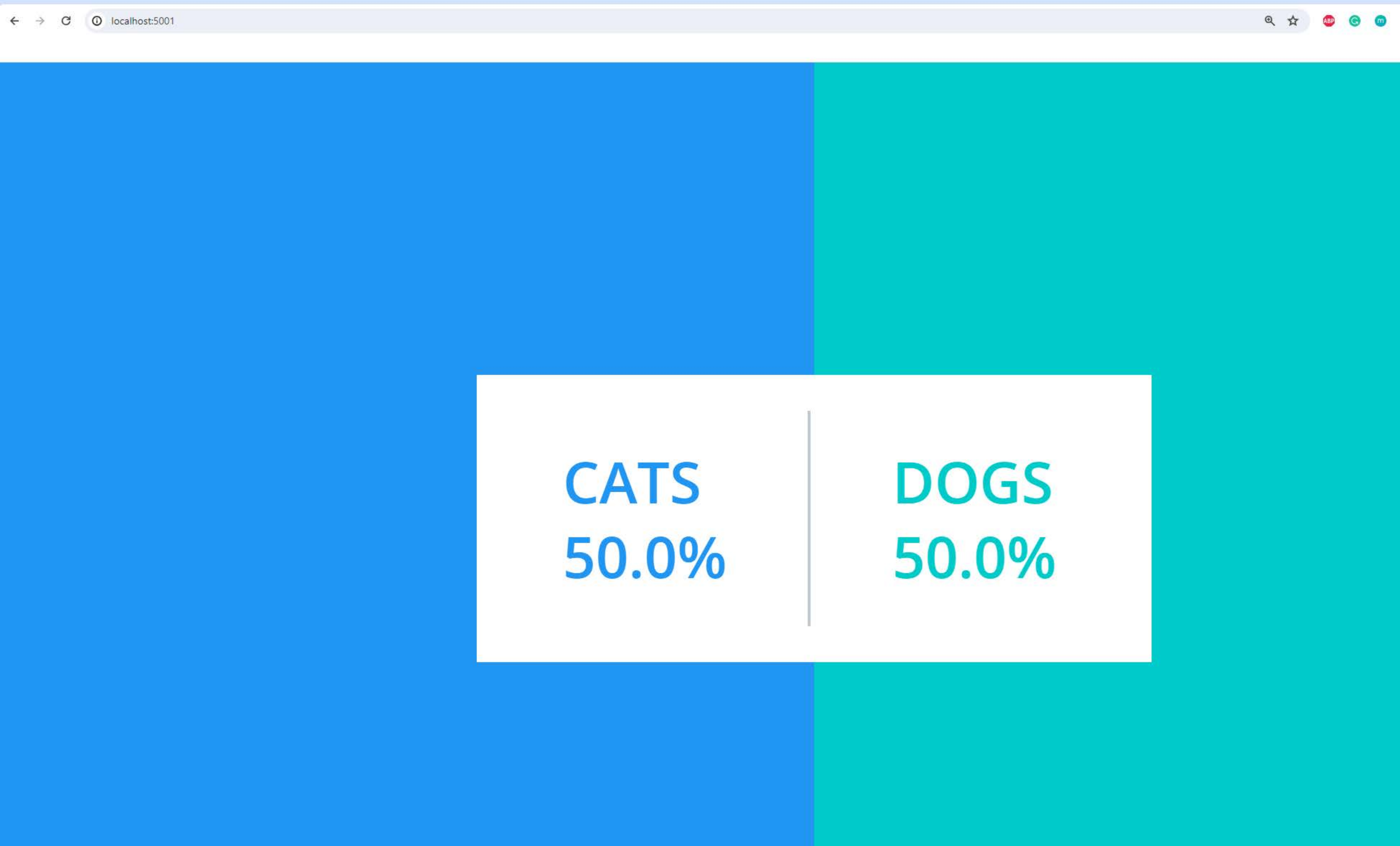
Cats vs Dogs!

CATS ✓

DOGS

(Tip: you can change your vote)

Processed by container ID
4571af0f7391

CATS
50.0%

DOGS
50.0%

Java vs .NET!

JAVA ✓

.NET

(Tip: you can change your vote)

JAVA
50.0%

.NET
50.0%

```
 db-data:kirillspitsyn@LAPTOP-VPGTN0GN:~/example-voting-app$ docker stack rm vote
Removing service vote_db
Removing service vote_redis
Removing service vote_result
Removing service vote_visualizer
Removing service vote_vote
Removing service vote_worker
Removing network vote_backend
Removing network vote_frontend
Removing network vote_default
kirillspitsyn@LAPTOP-VPGTN0GN:~/example-voting-app$
```