

```
=====
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/
```

Выбрать kirillspitsyn@LAPTOP-VPGTN0GN: ~

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: ~

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

```
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:~$ 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: ~  
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:~$
```



localhost:32769



Hello Kirill Spitsyn!

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



localhost:8888



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:~$ 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$
```





 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 
 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$ docker swarm init
```

```
Swarm initialized: current node (r8axplz6qnv1kgrqanwxbfqsk) 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 instructions.

```
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: o5vnfff9ev2qipbh47vkggfwn)
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$
```

Cats vs Dogs!

CATS

DOGS

(Tip: you can change your vote)

Processed by container ID
dca238c7690a

Cats vs Dogs!

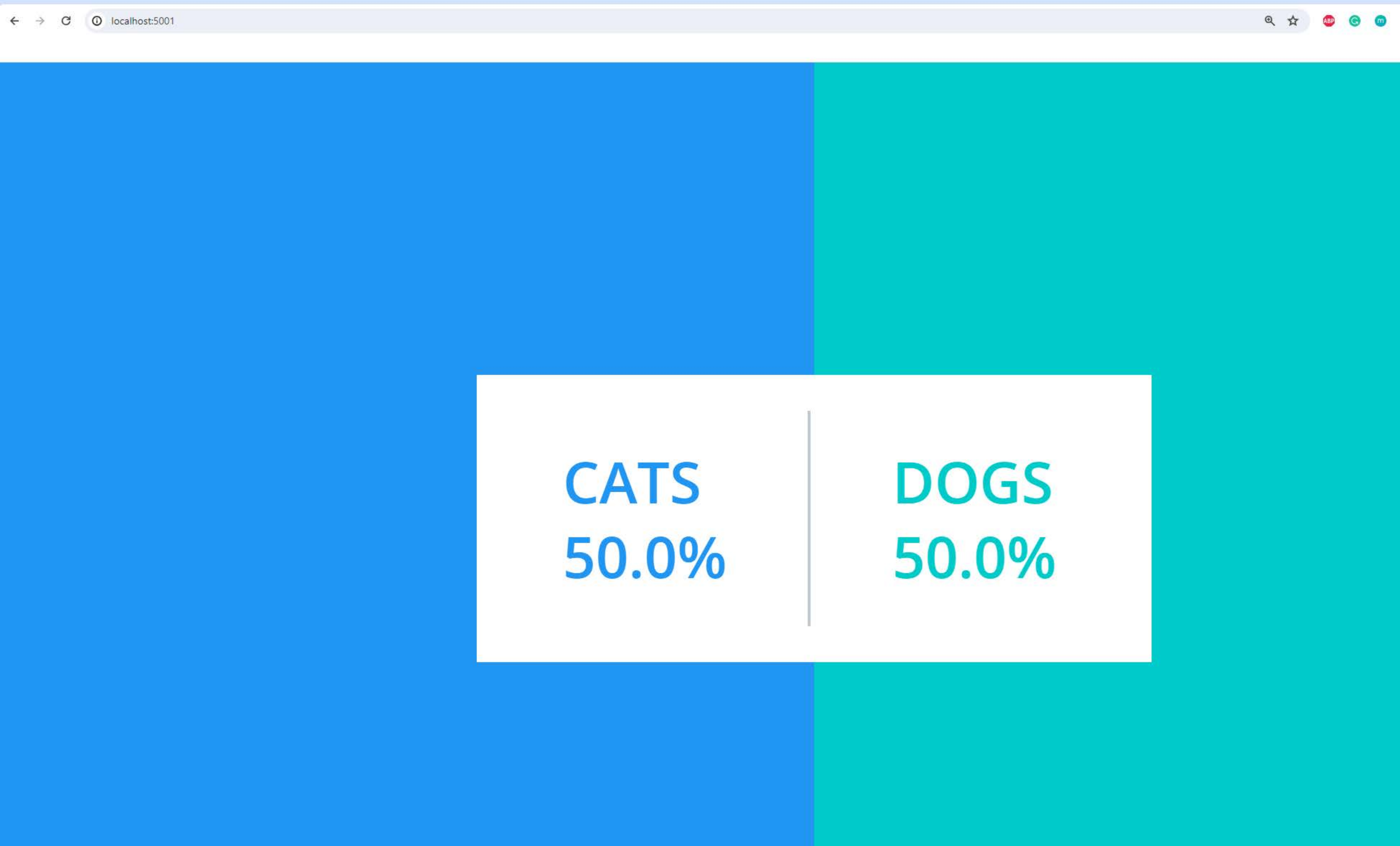
CATS



DOGS

(Tip: you can change your vote)

Processed by container ID
4571af0f7391



CATS
50.0%

DOGS
50.0%

Cats vs Dogs!

JAVA

.NET



(Tip: you can change your vote)

Processed by container ID
857ky62rh257

JAVA
50.0%

.NET
50.0%

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

```
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$
```