

```

Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\bgure> docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
ubuntu              latest             bf3dc08bfed0       2 weeks ago        76.2MB
alpine              latest             05455a08881e       3 months ago       7.38MB
ubuntu              12.04             5b117edd0b76       7 years ago        104MB
dockersamples/static-site latest             f589ccde7957       8 years ago        191MB
PS C:\Users\bgure> docker run alpine ls -l
total 56
drwxr-xr-x  2 root    root          4096 Jan 26 17:53 bin
drwxr-xr-x  5 root    root          3480 May 19 13:29 dev
drwxr-xr-x  1 root    root          4096 May 19 13:29 etc
drwxr-xr-x  2 root    root          4096 Jan 26 17:53 home
drwxr-xr-x  7 root    root          4096 Jan 26 17:53 lib
drwxr-xr-x  5 root    root          4096 Jan 26 17:53 media
drwxr-xr-x  2 root    root          4096 Jan 26 17:53 mnt
drwxr-xr-x  2 root    root          4096 Jan 26 17:53 opt
dr-xr-xr-x 382 root    root           0 May 19 13:29 proc
drwx----- 2 root    root          4096 Jan 26 17:53 root
drwxr-xr-x  2 root    root          4096 Jan 26 17:53 run
drwxr-xr-x  2 root    root          4096 Jan 26 17:53/sbin
drwxr-xr-x  2 root    root          4096 Jan 26 17:53/srv
dr-xr-xr-x 11 root    root           0 May 19 13:29 sys
drwxrwxrwt  2 root    root          4096 Jan 26 17:53 tmp
drwxr-xr-x  7 root    root          4096 Jan 26 17:53/usr
drwxr-xr-x 12 root    root          4096 Jan 26 17:53/var
PS C:\Users\bgure> docker run alpine echo "hello from alpine"
hello from alpine
PS C:\Users\bgure> docker run alpine /bin/sh
PS C:\Users\bgure> docker ps
CONTAINER ID   IMAGE                COMMAND                  CREATED        STATUS        PORTS
12be502174a6   dockersamples/static-site "/bin/sh -c 'cd /usr.." 26 minutes ago Up 26 minutes 0.0.0.0:32769->80/tcp, 0.0.0.0:32768->443/tcp static-site
PS C:\Users\bgure> docker stop 12be502174a6
12be502174a6
PS C:\Users\bgure> docker rm 12be502174a6
12be502174a6
PS C:\Users\bgure> docker ps
CONTAINER ID   IMAGE                COMMAND                  CREATED        STATUS        PORTS        NAMES
PS C:\Users\bgure> docker ps -a
CONTAINER ID   IMAGE                COMMAND                  CREATED        STATUS        PORTS        NAMES
66aa7941f2f7   alpine              "/bin/sh"              About a minute ago Exited (0) About a minute ago eager_shannon
6cb4f8e4950b   alpine              "echo 'hello from al.." About a minute ago Exited (0) About a minute ago epic_dubinsky
a605da76cd5d   alpine              "ls -l"                2 minutes ago   Exited (0) 2 minutes ago tender_chaplygin

```

```

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total 56
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drwxr-xr-x  5 root    root          4096 Jan 26 17:53 media
drwxr-xr-x  2 root    root          4096 Jan 26 17:53 mnt
drwxr-xr-x  2 root    root          4096 Jan 26 17:53 opt
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drwxr-xr-x  2 root    root          4096 Jan 26 17:53/sbin
drwxr-xr-x  2 root    root          4096 Jan 26 17:53/srv
dr-xr-xr-x 11 root    root           0 May 19 13:29 sys
drwxrwxrwt  2 root    root          4096 Jan 26 17:53 tmp
drwxr-xr-x  7 root    root          4096 Jan 26 17:53/usr
drwxr-xr-x 12 root    root          4096 Jan 26 17:53/var
PS C:\Users\bgure> docker run alpine echo "hello from alpine"
hello from alpine
PS C:\Users\bgure> docker run alpine /bin/sh
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PS C:\Users\bgure> docker stop 12be502174a6
12be502174a6
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6cb4f8e4950b   alpine              "echo 'hello from al.." About a minute ago Exited (0) About a minute ago epic_dubinsky
a605da76cd5d   alpine              "ls -l"                2 minutes ago   Exited (0) 2 minutes ago tender_chaplygin

```

```

PS C:\Users\bgure> docker port static-site
80/tcp -> 0.0.0.0:32769
443/tcp -> 0.0.0.0:32768

```

```
PS C:\Users\bgure> docker run --name static-site -e AUTHOR="Bahar Gurel" -d -P dockersamples/static-site 12be502174a61b0ab1628cfa5fc6a7f96b6b049c22a7d2885a3f056482ef8c20
```

```
PS C:\Users\bgure> docker run --name static-site -e AUTHOR="Bahar Gurel" -d -P dockersamples/static-site 12be502174a61b0ab1628cfa5fc6a7f96b6b049c22a7d2885a3f056482ef8c20
```

```
PS C:\Users\bgure> docker stop 8a15e0acc687
8a15e0acc687
```

```
PS C:\Users\bgure> docker rm 8a15e0acc687
8a15e0acc687
```

```
PS C:\Users\bgure> docker stop 8a15e0acc687
8a15e0acc687
```

```
PS C:\Users\bgure> docker rm 8a15e0acc687
8a15e0acc687
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
8a15e0acc687	dockersamples/static-site	"/bin/sh -c 'cd /usr..."	5 minutes ago	Up 5 minutes	80/tcp, 443/tcp	ten

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
8a15e0acc687	dockersamples/static-site	"/bin/sh -c 'cd /usr..."	5 minutes ago	Up 5 minutes	80/tcp, 443/tcp	ten

```
PS C:\Users\bgure> docker run -d dockersamples/static-site 8a15e0acc68737348d94e45bc84b45f0b82fd68f3058d4fbea72c129eea0a26d
```

```
C:\Users\bgure>docker port static-site
80/tcp -> 0.0.0.0:32769
443/tcp -> 0.0.0.0:32768
```

```
C:\Users\bgure>docker run --name static-site -e AUTHOR=" wizardly_carson" -d -P dockersamples/static-site f55eeace7891f051ef7aa860698b0c0d701f5b2f2f51e9e005a161db216a9d69
```

```
C:\Users\bgure>docker stop 372b7d8ac3b6
372b7d8ac3b6
```

```
C:\Users\bgure>docker rm 372b7d8ac3b6
372b7d8ac3b6
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
372b7d8ac3b6	dockersamples/static-site	"/bin/sh -c 'cd /usr..."	About a minute ago	Up About a minute	80/tcp, 443/tcp

```
C:\Users\bgure>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
372b7d8ac3b66abdf26512ce5510470745c7f3acdb72f17563440721cc059cd0
```

```
C:\Users\bgure>docker run -it alpine /bin/sh
/ # ls
bin  dev  etc  home  lib  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
/ #
```

```
C:\Users\bgure>docker ps -a
CONTAINER ID   IMAGE     COMMAND                  CREATED          STATUS          PORTS          NAMES
5951119a5b48   alpine    "/bin/sh"               About a minute ago  Exited (0) About a minute ago           pricele
ss_rhodes
95320ac38178   alpine    "echo 'hello from al..." About a minute ago  Exited (0) About a minute ago           busy_ge
rmain
14a204ae9743   alpine    "ls -l"                 3 minutes ago      Exited (0) 3 minutes ago           pricele
ss_dijkstra
```

```
C:\Users\bgure>docker run alpine /bin/sh
```

```
C:\Users\bgure>docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED          STATUS          PORTS          NAMES
```

```
C:\Users\bgure> docker run alpine echo "hello from alpine"
hello from alpine
```

```
C:\Users\bgure>docker run alpine ls -l
total 56
drwxr-xr-x  2 root    root    4096 Jan 26 17:53 bin
drwxr-xr-x  5 root    root    340  May 14 22:06 dev
drwxr-xr-x  1 root    root    4096 May 14 22:06 etc
drwxr-xr-x  2 root    root    4096 Jan 26 17:53 home
drwxr-xr-x  7 root    root    4096 Jan 26 17:53 lib
drwxr-xr-x  5 root    root    4096 Jan 26 17:53 media
drwxr-xr-x  2 root    root    4096 Jan 26 17:53 mnt
drwxr-xr-x  2 root    root    4096 Jan 26 17:53 opt
dr-xr-xr-x 299 root    root      0 May 14 22:06 proc
drwx----- 2 root    root    4096 Jan 26 17:53 root
drwxr-xr-x  2 root    root    4096 Jan 26 17:53 run
drwxr-xr-x  2 root    root    4096 Jan 26 17:53 sbin
drwxr-xr-x  2 root    root    4096 Jan 26 17:53 srv
dr-xr-xr-x 11 root    root      0 May 14 22:06 sys
drwxrwxrwt  2 root    root    4096 Jan 26 17:53 tmp
drwxr-xr-x  7 root    root    4096 Jan 26 17:53 usr
drwxr-xr-x 12 root    root    4096 Jan 26 17:53 var
```

```
C:\Users\bgure> docker pull alpine
Using default tag: latest
latest: Pulling from library/alpine
4abcf2066143: Pull complete
Digest: sha256:c5b1261d6d3e43071626931fc004f70149baeba2c8ec672bd4f27761f8e1ad6b
Status: Downloaded newer image for alpine:latest
docker.io/library/alpine:latest
```

#### What's Next?

View a summary of image vulnerabilities and recommendations → [docker scout quickview alpine](#)

```
C:\Users\bgure>docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
alpine        latest    05455a08881e   3 months ago   7.38MB
```

```
C:\Users\bgure>|
```

```
Download an image from a registry
PS C:\Users\bgure> docker pull alpine
Using default tag: latest
latest: Pulling from library/alpine
Digest: sha256:c5b1261d6d3e43071626931fc004f70149baeba2c8ec672bd4f27761f8e1ad6b
Status: Image is up to date for alpine:latest
docker.io/library/alpine:latest
```

#### What's Next?

View a summary of image vulnerabilities and recommendations → [docker scout quickview alpine](#)

```
PS C:\Users\bgure> docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
Digest: sha256:3f85b7caad41a95462cf5b787d8a04604c8262cdcdf9a472b8c52ef83375fe15
Status: Image is up to date for ubuntu:latest
docker.io/library/ubuntu:latest
```

#### What's Next?

View a summary of image vulnerabilities and recommendations → [docker scout quickview ubuntu](#)

```
PS C:\Users\bgure>
```

```
PS C:\Users\bgure> docker run --name static-site-2 -e AUTHOR="Bahar Gurel" -d -p 8888:80 dockersamples/static-site
c3f6604b25d6cb5c7a5c2fd1414ec036a439d0f6c483ca8af42c119382ca10a5
PS C:\Users\bgure> docker stop static-site
static-site
PS C:\Users\bgure> docker rm static-site
static-site
PS C:\Users\bgure> docker rm -f static-site-2
static-site-2
PS C:\Users\bgure> docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS        NAMES
PS C:\Users\bgure>
```

```
PS C:\Users\bgure> docker run --name static-site-2 -e AUTHOR="Bahar Gurel" -d -p 8888:80 dockersamples/static-site
c3f6604b25d6cb5c7a5c2fd1414ec036a439d0f6c483ca8af42c119382ca10a5
PS C:\Users\bgure> docker stop static-site
static-site
PS C:\Users\bgure> docker rm static-site
static-site
PS C:\Users\bgure> docker rm -f static-site-2
static-site-2
PS C:\Users\bgure> docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
PS C:\Users\bgure>
```

localhost:32771

translate - Google S...



Astrology



Crypto/FX



Spring@Canada



George Brown

# Hello Bahar Gurel!

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

Containers

Images

Volumes

Builds

Docker Scout

Extensions

Add Extensions

flask-app/dockerfile

c7efepzb99w9audpoakms2lph

StatusCompletedDuration15.6sBuilderdefaultAuthorN/A

InfoSourceLogsHistory

Source details

linux/amd64

File name

dockerfile

Remote source location

N/A

Revision

N/A

Build timing

Real time15.6s

Accumulated time15.6s

Cache usage0/10

Parallel execution

Local file transfers

Image pulls

Executions

File operations

Result exports

Idle

Build start time

5/20/2024, 3:00:53 PM

Cached steps

0

Build end time

5/20/2024, 3:01:09 PM

Non-cached steps

10

Total build time

15.6s

Total steps

10

Dependencies

```
PS C:\Users\bgure\myproject\Flask-app> docker build -f dockerfile -t zuzay76/flask-app .
[+] Building 0.0s (0/0) docker:default
[+] Building 15.8s (11/11) FINISHED
=> [internal] load build definition from dockerfile
=> => transferring dockerfile: 489B
=> [internal] load metadata for docker.io/library/python:3.9-slim
=> [auth] library/python:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build context
=> => transferring context: 623B
=> [1/5] FROM docker.io/library/python:3.9-slim@sha256:088d9217202188598aac37f8db0929345e124a82134ac66b8bb50ee9750b045b
=> => resolve docker.io/library/python:3.9-slim@sha256:088d9217202188598aac37f8db0929345e124a82134ac66b8bb50ee9750b045b
=> => sha256:088d9217202188598aac37f8db0929345e124a82134ac66b8bb50ee9750b045b 1.86kB / 1.86kB
=> => sha256:b92e6f45b58d9cafac38563e946f8d249d850db862cbbd8befcf7f49eef8209 1.37kB / 1.37kB
=> => sha256:4602238ffbdcf66f436adfb46e31c9521ab4a9960b51b1a051004fa5a70f3f42 6.90kB / 6.90kB
=> => sha256:09f376ebb190216b0459f470e71bec7b5dfa611d66bf008492b40dcc5f1d8eae 29.15MB / 29.15MB
=> => sha256:276709cbcdcf168290ee408fca2af2aacfeb4f922ddca125e9e8047f9841479 3.51MB / 3.51MB
=> => sha256:4e7363ac3b6fb61a9310bbb00e385beaa54c712a9633c01de34cc7d8b0823dba 11.89MB / 11.89MB
=> => sha256:1f1e6fb6a4a52a77049d55697db79164d7d0e5a78ae115c657699f4471398fc0 244B / 244B
=> => sha256:bf8f57a642c477da4e61c92dc0c0fd036a8d7e3d3951df39b88c3dd73bf3d5af 3.13MB / 3.13MB
=> => extracting sha256:09f376ebb190216b0459f470e71bec7b5dfa611d66bf008492b40dcc5f1d8eae
=> => extracting sha256:276709cbcdcf168290ee408fca2af2aacfeb4f922ddca125e9e8047f9841479
=> => extracting sha256:4e7363ac3b6fb61a9310bbb00e385beaa54c712a9633c01de34cc7d8b0823dba
=> => extracting sha256:1f1e6fb6a4a52a77049d55697db79164d7d0e5a78ae115c657699f4471398fc0
=> => extracting sha256:bf8f57a642c477da4e61c92dc0c0fd036a8d7e3d3951df39b88c3dd73bf3d5af
=> [2/5] WORKDIR /usr/src/app
=> [3/5] COPY requirements.txt ./
=> [4/5] RUN pip install --no-cache-dir --verbose -r requirements.txt
=> [5/5] COPY . .
=> => exporting to image
=> => exporting layers
=> => writing image sha256:3a0c2bf28627746b20dbe4ff94a1341c221b0a1deb037a96af0ec166777130cd
=> => naming to docker.io/zuzay76/flask-app

View build details: docker-desktop:///dashboard/build/default/default/c7efepzb99w9audpoakms2lph

What's Next?
View a summary of image vulnerabilities and recommendations -> docker scout quickview
```

View build details: [docker-desktop://dashboard/build/default/default/uhzvrm2qkay24sc70shrbpkwk](#)

#### What's Next?

View a summary of image vulnerabilities and recommendations → [docker scout quickview](#)

PS C:\Users\bgure\myproject\flask-app> **docker** images

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
zuzay76/flask-app	latest	c66e4c6c8d2c	About a minute ago	138MB
<none>	<none>	3a0c2bf28627	12 minutes ago	138MB
ubuntu	latest	bf3dc08bfed0	3 weeks ago	76.2MB
alpine	latest	05455a08881e	3 months ago	7.38MB
ubuntu	12.04	5b117edd0b76	7 years ago	104MB
dockersamples/static-site	latest	f589ccde7957	8 years ago	191MB

PS C:\Users\bgure\myproject\flask-app>

PS C:\Users\bgure> **rm** myproject

#### Confirm

The item at C:\Users\bgure\myproject has children and the Recurse parameter was not specified. If you continue, all children will be removed with the item. Are you sure you want to continue?

[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): y

PS C:\Users\bgure> **docker** rm -f myfirstapp

Error response from daemon: No such container: myfirstapp

PS C:\Users\bgure> **docker** rm -f myproject

myproject

PS C:\Users\bgure> **git** clone https://github.com/docker/example-voting-app.git

Cloning into 'example-voting-app'...

remote: Enumerating objects: 1140, done.

remote: Total 1140 (delta 0), reused 0 (delta 0), pack-reused 1140

Receiving objects: 100% (1140/1140), 1.19 MiB | 4.62 MiB/s, done.

Resolving deltas: 100% (435/435), done.

PS C:\Users\bgure> **cd** example-voting-app

PS C:\Users\bgure\example-voting-app> **docker** swarm init

Swarm initialized: current node (pyautr1mq4myonn28d1ha8vwe) is now a manager.

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

```
docker swarm join --token SWMTKN-1-0ap02egy0untsfte72r1cwl0g28hsg3j3yhbmi9vrig2un9lu8-32da3re7ynrs7jcvvls167dl0 192.168.65.3:2377
```

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

PS C:\Users\bgure\example-voting-app> **docker** stack deploy

"docker stack deploy" requires exactly 1 argument.

See 'docker stack deploy --help'.

Usage: **docker** stack deploy [OPTIONS] STACK

Deploy a new stack or update an existing stack

PS C:\Users\bgure\example-voting-app>